(1) பக்கங்களின் எண்ணிக்கை 32

(2) புதுக்கித் திருப்பிய நாள் 30.9.86

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணித் துறை

அரசாணை எண். 3149(W) அச்சகம்
~~மூ. கோப்புத் தாள் எண்.~~ ~~மலைக~~

நாள் : 22-12-1884 ~~18~~ /.

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண : கா-1—18,006—15-6-87.

3149/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Major A. G. HUTCHINS, Officiating Deputy Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 9th December 1884, No. 2373 A.:—

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

I. Detailed and abstract estimate, amounting to Rs. 2,880, for constructing an armourer's shop for the regiment of Madras Infantry at Pallávaram.

II. Report and specification.

No. 6182, Military.

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

(By Order.)

Fort St. George,
12th December 1884.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Offg. Secy. to Govt., Mily. Dept.

Order—dated 22nd December 1884, No. 3149 W., Public Works.

The estimate, amounting to Rs. 2,880, for constructing an armourer's shop for the Native Infantry Regiment at Pallávaram, is sanctioned for execution when funds are available.

2. This sanction has been registered as Imperial Ordinary No. 57 W. of 1881-85 and classified as Military, Original Works.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, V Circle, with two enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Military Department.

Exd. A. Grubert.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated December, 22nd.

Recd.

Encl.

G.O., 22nd Dec. 1884, No. 3149 W.

DECEMBER.

Armourer's Shop for the Native Infantry Regiment at Pallavaram

Estimate for constructing an —, sanctioned.

Appendix to G.O., No. 2556 W., dated 18th October 1884.

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 1885-86.

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, 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.
Bangalore Division.	Bangalore ...	*Transport Department.* I. Accommodation for 209 mule saddles and 35 sets of harness. II. Sheds for 56 carts, 12 trollies and 12 light carts. III. Sheds for 50 sick carts IV. A room for veterinary medicines and instruments.	Rs. 1,545	Urgently required, as the whole of the sick carts, dhoolies, &c., are now in charge of the department.	A very necessary requirement; the present harness room altogether insufficient; the harness cannot, without difficulty, be properly overhauled. The carts, dhoolies, undoubtedly deteriorate by being kept in the open.	Very necessary.
	Do. ...	*Royal Artillery.* A new latrine for the Staff Sergeant's quarters for Horse Artillery, the present one being old and condemned on sanitary grounds.	2,100	Required on sanitary grounds ...	Urgently required on sanitary grounds as reported by the committee in 1882.	Very necessary.
	Do. ...	Quarters for a Battery Quartermaster Sergeant, Royal Horse Artillery.	1,100	.....	Conversion recommended as approved by His Excellency the Commander-in-Chief last year.	Approved.
	Do. ...	Cook-house for Sergeant's Mess of two field batteries.	1,470	Very necessary	A very necessary requirement.	Necessary.
	Do. ...	Latrine with six seats for the use of two field batteries.	620	Necessary for use of men at stables.	Urgently required	Do.
	Do. ...	Stone drains to forage yard and lines, Royal Horse Artillery.	1,440	Sanctioned when funds are available. Considered desirable.	I consider that surface drains would meet the requirements in this case and could be executed by the Sappers at less than half the cost.	The suggestion of the General Officer Commanding approved of.

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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 1885-86—*cont.*

Division or District.	Station.	Description of buildings,, &c., and for what crops, departments, 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.
		Royal Artillery—cont.				
	Wellington ...	Removing the present concrete floors of latrines Nos. 1, 2, 3, 4, and 5 barracks and school block and relaying the same with 12-inch square tiles.	Rs. 1,680	G.O., No. 1472, dated 4th June 1874. G.O., No. 1812, dated 9th June 1874. Very necessary.	Recommended	Necessary.
	Do. ...	Bath-rooms to Nos. 1, 2, 3, 4 and 5 blocks for Pay Sergeant.	2,350	Necessary	Much required and very necessary.	Very necessary.
	Do. ...	Brick-tile flooring instead of present concrete to cover passages from married quarters to latrine.	1,000	.....	The flooring of these passages with tiles would eventually be a saving to the Government.	Do.
	Do. ...	Purveyor stores to be enlarged, as the space is insufficient for bedding, clothing and furniture.	2,000	Do.	The storage space is at present quite insufficient, I therefore recommend the outlay.	Do.
	Do. ...	Supplying seven cooking stoves to Staff Sergeant's quarters similar to those to married quarters.	600	.....	Recommended	Do.
		Parade Barracks.				
	Bangalore ...	Latrine to native followers ...	1,600	Necessary	Very necessary ; they have now a small latrine built by the regiment.	Do.
	Do. ...	Transport Department.—Converting Sergeant's quarters into Sub-Conductor's quarters.	1,000	Very necessary as the present quarters are very small.	A necessary requirement ...	Do.
		12th Royal Lancers.				
	Do. ...	Latrine with six seats for use of men while at stables.	600	Considered necessary	Very necessary	Necessary.
	Do. ...	To have a cook-house built for a coffee shop.	250	Desirable ; brought forward for the first time.	Very much required	Very desirable.
Bangalore		*Camp Equipage Godowns.*				
	Do. ...	Laying down one-inch water-pipe from main pipe to Camp Equipage stores, length 830 feet.	1,170	Considered it necessary in case of fire, damp, or other accident, as the building is isolated from the barracks and contains nearly the whole of the camp equipage of the station (brought forward for the first time).	Very necessary, the original pipes *(sic)* when these buildings ceased to be barracks. I consider the estimate greatly over drawn.	Desirable, but cost seems excessive.
		Commissariat Department.				
	Do. ...	Alterations to Staff Sergeant's quarters (2) by raising floor and roof.	2,000	Very necessary on sanitary grounds as the building is very low and floor lower than the surrounding grounds.	Urgently required for sanitary reasons.	Very necessary.
		South Station Hospital.				
	Do. ...	Stabling for Apothecary's quarters.	400	Necessary ; brought forward for first time.	Desirable	Necessary.
		15th Regiment Native Infantry.				
	Do. ...	I. Place of arms ; light from roof. II. Modification of doors, windows, and arm racks for a regiment of 8 companies in lieu of 10 companies. III. Surface V drains round building. IV. Place of arms enlarged. Prisoner's room. V. Native Infantry Hospital ...	700	Desirable ; brought forward for the first time.	These improvements are very necessary.	Do.
		Parade Barracks.				
	Do. ...	Lining with stone the drain east and west of barrack limits.	1,538	G.O. No. 2755 W., dated 5th July 1878. Desirable.	It is desirable to have these drains constructed ; a good size V drain would answer the requirement.	Necessary as advised by Officer Commanding.
		Commissariat Department.				
	Do. ...	To build or render present building used as such (but built for a native) quarters for the station butcher.	525	Desirable ; sanctioned when funds are available.	Urgently required ; the present building is quite unsuitable for the residence of an European.	Very necessary.

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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, 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.
Bangalore Division—*cont.*		*Commissariat Department*—cont.				
	Bangalore ...	To improve the road leading from slaughter-house to circular road, cavalry barracks, to enable meat-carts to travel to and fro without breaking down and injuring meat by jolting.	1,400	Necessary; sanctioned when funds are available.	It is very necessary that this road should be put in thorough repair; could be done for half the cost by Sapper labor.	To be done by Sappers as soon as funds are provided.
		Royal Horse Artillery.				
	Do. ...	Boarding floor of recreation room.	1,240	Brought forward for the first time.	Desirable.	When funds are available.
		Arsenal.				
	Fort St. George.	A verandah to Section II, VI and VII, Store.	400	Very much needed for the storage of serviceable fire engines which are now kept out.	Recommended.	Approved.
	Do. ...	A store-room in the forge work-shop.	520	Very much needed, the present one being too small.	Do.	Do.
	Do. ...	Railings to miscellaneous work-shop and a door between them and armourer's shop.	790	Very much needed.	Do.	Do.
	Do. ...	A shed in the new park	440	Very much needed for painting canvas.	Do.	Do.
	Do. ...	A new bridge across the trench in new park.	810	Very much needed; but if outer works are demolished the bridge will not be required.	Now recommended as it has been decided that the outworks be not demolished—*Vide* G.O., 5th July 1884, No. 3227.	When funds are available.
District.	Do. ...	A good water tap for the quarters of the Superintendent of Fire Engines.	200	Very much needed	Recommended	Approved.
Eastern	Do. ...	The verandah of the European Infantry Officer's Mess-house to be extended.	1,900	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 surface of the building.	Do.
	Do. ...	"I" room, inner and outer compartments, be adopted for theatrical performances for British Infantry.	1,000	Very desirable	Recommended	Do.
		Station Hospital.				
	Madras ...	Two huts for the reception of infectious cases in the compound of Station Hospital. The huts should be capable of holding three beds for the treatment of cases among the men, and two beds for women, and should according to regulation contain 7,200 cubic feet of space and 4,800 cubic feet, respectively. They should be about 20 feet long by 20 feet broad by 18 feet high, and 18 feet long by 18 feet broad by 15 feet high, respectively.	750	At present all cases of infectious disease have to be isolated and treated in tents; this arrangement is fairly satisfactory during the cold months of the year, but during the hot weather it is most undesirable, as the tents become so hot that it is injurious to the men to be kept in them.	Do.	Recommended.
		Body Guard.				
	Do. ...	Dispensary for veterinary department for Body Guard.	1,300	Necessary	Do.	When funds are available.
		Native Infantry Lines, Perambúr.				
	Do. ...	A new regimental school at the Perambúr Lines.	1,375	Much required; estimate for Rs. 1,375 for converting Staff Sergeant's quarters, No. II, into a school-house for Native Infantry Regiment at Perambúr sanctioned when funds are available. G.O., No. 312 W., dated 6th February 1884.	Do.	Approved.

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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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, 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.
		Native Infantry Lines, Perambúr —cont.	RS.			
	Madras ...	An armourer's shop	2,000	The present armourer's shop is not on the standard plan and have no facilities for browning arms which has to be done in the open.	Recommended	When funds are available.
		Native Infantry Lines, Ráyapuram.				
	Do. ...	One latrine on the north side of the regimental lines at Ráyapuram.	1,200	Latrine on the south side has been completed, that on north side is required.	Do.	Recommended.
		Gun Powder Factory.				
	Do. ...	Breaking-down house ... ... 1 Breaking-down machine ... 1 house for 6 horse-power engine and boiler.	... 500	G.O., No. 59 of 7th January 1874.	Recommended as being apparently portion of the scheme for the thorough renewal of Gun Powder Factory—*vide* items in the list of major works.	Approved.
	Do. ...	Powder Magazine. Wooden flooring and thorough repair.	1,100	G.O., No. 1501 of 31st March 1875.		Do.
		Commissariat Department.				
	Do. ...	A detached godown for the storage of wheat with verandahs on both sides in the Government Bakery.	1,785	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. Estimate sanctioned, G.O., No. 1868 W., dated 5th July 1883, Public Works.	Recommended	Do.
District—*cont.*	Do. ...	The levelling of the bakery compound and a system of drainage to carry off the washing 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.	Do.	When funds are available.
Eastern	St. Thomas' Mount.	*Sinking a well, erecting a mont and trough apparatus, public cattle depôt.*	1,200	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	Do.
	Do. ...	Improvements to the lightning conductor to expense magazine, Royal Artillery.	1,500	It is absolutely necessary, the present one having been condemned by the Telegraph Department.	Do.	Most important.
	Pallávaram ...	An armourer's workshop for Native Infantry Regiment.	820	At present none	Do.	Approved.
	Do. ...	Store-room for regimental camp equipage for the use of Native Infantry Regiment.	1,500	Do.	Strongly recommended; much needed; the old dâk bungalow is at present used as a store-room.	Do.
	Do. ...	Tiled shed suitable for the accommodation of about 250 sepoys from Madras during the musketry season, and recruits at other times at Meenumbaukum.	...	At present none. Urgently required.	The well is recommended, but the erection of a tiled and permanent shed is not recommended as it does the men good to camp out every now and again.	Well approved; sheds unnecessary.
	Do. ...	Sinking a well at do.	318	.....	.. ...	...
	Poonamallee...	Lightning conductors on the new hospital.	1,800	Very urgently required; the building is about the highest point in the station.	Recommended	Most important.
	Do. ...	North-east block, old barracks, required to be converted from married into single quarters.	1,000	When a large party of men arrive in the station a portion have to be accommodated in the men hospital wards.	Can only be converted when the new family quarters are completed and if it is decided to maintain Poonamallee as a depôt.	When funds are available.
	Do. ...	New family quarters. Required a wall to shut off the new married quarters from main road.	1,000	.....	Recommended if the depôt is to be maintained.	Approved.
	Vellore ...	School-house for a Native Infantry Regiment. Materials only being supplied by the Public Works Department.	2,150	This 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 at a considerable distance from the lines.	Much needed; construction of a school-house has been sanctioned for execution when funds are available. G.O., No. 318 W., dated 7th February 1884.	To be constructed by the men.

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 1885-86—*cont.*

Division or District.	Station.	Description of buildings, &c., and for what corps, departments, 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.
		Commissariat Department—cont.	RS.			
	Vizianagrum...	Bath-room for hospital of the Native Infantry Regiment.	360	Much required, there being no accommodation which could be used for the purpose.	Recommended	Approved.
	Do. ...	Hospital wall to be completed ...	286	Present wall encloses three sides of the hospital, while on the fourth side, and nearest the regimental lines, there is none. If wall is completed all ingress and egress will be confined to the regular entrance, and a better watch kept over the movements of patients.	Do.	When funds are available.
	Do. ...	Powder Magazine with surrounding walls on standard pattern.	1,990	Much required, the present magazine having been condemned and have no protecting walls round it. The shelves being built into the walls are continually attacked by whiteants.	Do.	Approved.
	Do. ...	Armourer's workshop	900	Much required; the work has been sanctioned. G.O., No. 1111, dated 17th April 1883. Progress of work stopped on account of famine in 1877 and not since completed.	Do.	Do.
District—*cont.*	Berhampore ...	School-house for a Native Infantry Regiment. Materials only being supplied by the Public Works Department.	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. 1551 W., dated 20th June 1884.	Do.	To be constructed by the men.
Eastern	Cuttack ...	*School-house for a Native Infantry Regiment. Materials only being supplied by the Public Works Department.*	2,162	The school is temporarily occupying a place for cleaning arms where the accommodation is insufficient.	Do.	Do.
	Vizianagrum.	A small public latrine near the barrack buildings.	300	Required for the use of men of the guard and men at school or on duty, the regimental lines being about half a mile distant.	Do.	Recommended.
Western District.	Cannanore ...	Station Hospital. Sinking a well.	700	Much required. The water-supply is very scanty during the hot weather.	Strongly recommended ...	Strongly recommended.
	Do. ...	European Infantry. Replacing the present flooring of the European Infantry cells with concrete in chunam and asphalte.	1,100	Recommended. The present laterite flooring is in a very bad state—*vide* G.O., No. 1675 W., dated 5th July 1884.	Recommended	Recommended.
	Do. ...	Ordnance Department. Raising the parapet of the magazine redoubt on a level with its eaves and moving the guard-room from inside to outside the ditch.	1,900	Desirable as a precautionary measure.	Do.	Very desirable.
	Do. ...	European Infantry. Replacing the laterite flooring of the recreation room with concrete in chunam and asphalte.	2,140	Recommended. The laterite perishes rapidly—*vide* G.O., No. 1675 W., dated 5th July 1884.	Recommended, but not very urgent.	Recommended.
	Do. ...	European Infantry. 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 removal.	Recommended	Do.
	Malapuram ...	European Infantry. The sick cart-shed to be rebuilt.	1,550	Present shed is dangerous, being of thatch. G.O.. No. 2590 W., dated 4th October 1882.	The present shed is in ruins and the site is required for a ward for contagious diseases. Recommended.	An inexpensive shed should suffice.
	Mangalore ...	Substituting asphalte in room of chunam floors in wards and surgery of hospital, 33rd Regiment Native Infantry.	695	Recommended on sanitary grounds.	Recommended	Recommended.

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3149/7

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 3rd October 1884, No. 1487-A.

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 1885-86, together with a list of the more important major works, classified as per margin and entered in the order of their urgency, which His Excellency the Commander-in-Chief would wish submitted for the special consideration of Government, with the following observations :—

Class A.—Works actually in progress to complete which grants are wanted.
Class B.—Urgent works not yet commenced for which grants are required.

Class A.—The works under this classification being actually in progress, the necessity of suitable grants being allotted for their completion needs no comment.

Class B. I.—Last year it was hoped that the first two items in this class, viz., "Gymnasium, British infantry, Fort St. George," and "Accommodation, native cavalry regiment, Bangalore," would, by the opening of the current year, belong to class A ; but this hope has not yet been realised. His Excellency would therefore urge upon Government the necessity of providing funds at an early date for the commencement of these important works.

II. *Item No.* 3.—"Bakery at Wellington" was also expected to belong to class A this year, but this has not been the case up to date ; and as, in His Excellency's opinion, the work is one of special urgency, he hopes Government will allot funds at an early date for its commencement.

III. *Item No.* 4.—"Accommodation for a native infantry regiment, Bangalore." The 14th regiment, native infantry, for whom these buildings are required, have arrived at Bangalore and are now engaged in building their lines at that station, and it is very desirable that funds should be allotted as soon as possible, so that a commencement may be made for providing the necessary subsidiary buildings.

IV. *Item No.* 5.—"Military prison at Bangalore." This work is, in His Excellency's opinion, of great importance and very urgent, and he therefore hopes funds will be provided for it next year.

V. *Item No.* 6.—"Water-supply to barracks, Royal artillery and British infantry, Bellary." This is a work the importance of which is strongly urged by the medical authorities.

VI. *Item No.* 7.—"Armourer's shop, 2nd Light cavalry, Bellary." This is a work very much needed and of real importance, and should not be delayed.

VII. *Item No.* 8.—"Store-rooms and workshops for the Pioneer regiment at Bangalore." It having been decided that a Pioneer regiment shall be always located at Bangalore, and as the 1st Madras Pioneers may be expected to arrive there in the course of a few months, it is very desirable that these buildings should be furnished for their equipment, &c., as soon as possible.

VIII. *Item No.* 9.—"Stabling for Royal artillery, two batteries, Saint Thomas' Mount." The Commander-in-Chief would again urge upon Government the great importance of having their horses properly sheltered, and accordingly recommends an early allotment of funds for the commencement of this work.

IX. *Items Nos.* 10 *and* 11.—"Additional hospital accommodation for women and children" and a "church" at Wellington. These are urgent requirements and should therefore not be delayed.

X. *Item No.* 12.—"Coffee shops, Royal artillery, Saint Thomas' Mount." These are, in His Excellency's opinion, urgently required for the two field batteries at Saint Thomas' Mount.

2. The other works in the schedule, although not entered in class B, are nevertheless considered to be really necessary, and it is only because an undue demand for funds would have to be made in connection with them that they are omitted therefrom.

3. In conclusion, His Excellency would strongly urge upon Government the necessity, from the foregoing remarks, of appealing to the Government of India for a large and liberal grant for military works in the coming year, so that none of the many important original works included in class B may be allowed to stand over any longer.

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Eastern District.	Madras ...	1	Gunpowder mills, alterations and additions to.	1,99,830	
		2	(*a*) Coast batteries, completion of.	...	(*a*) The Superintending Engineer, V Circle, reports that the work will be completed in the current official year.
		3	Armament, Fort St. George, mounting of, &c.,	42,000	
	St. Thomas' Mount.	4	Barracks, Royal artillery, completion of.	1,27,750	
Western District.	Malápuram.	5	Barracks for detachment. ...	1,31,610	
Bangalore Division.	Bangalore ...	6	Entrenchment	16,100	
			Ordnance depôt	16,780	
	Trichinopoly.	7	Accommodation for two regiments, native infantry, combined.	21,140	
Eastern District.	Madras ...	8	Quarters for warrant and non-commissioned officers, Commissariat Department.	26,740	

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Eastern District.	Fort St. George.	1	Gymnasium, British infantry, Fort St. George.	11,570	
Bangalore Division.	Bangalore...	2	Accommodation, native cavalry regiment.	29,600	
	Wellington.	3	Bakery for depôt (including latrine).	32,000	
	Bangalore...	4	Accommodation for one native infantry regiment (less magazine.)	14,610	
Bangalore Division.	Bangalore ..	5	Additions to the military prison.	8,335	

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Ceded Districts.	Bellary ...	6	Water-supply to barracks, Royal artillery and British infantry.	3,000	An estimate for Rs. 27,630 was received, but returned for revision.
Do. ...	Do. ...	7	Armourers' shops 2nd Light cavalry.	2,695	
Bangalore Division.	Bangalore...	8	Store-rooms and workshops for the Pioneer regiment.	3,000	
Eastern District.	St. Thomas' Mount.	9	Stables for Royal artillery, two batteries.	20,160	
Bangalore Division.	Wellington.	10	Addditional hospital accommodation for women and children.	5,000	
Eastern District.	St. Thomas' Mount.	11	Coffee shops, three in number — one for each, north, south and new artillery barracks.	9,000	

OOTACAMUND,
3rd October 1884.

(Signed) A. G. HUTCHINS, Major,
Offg. Deputy Quartermaster-General.

Office note from the Superintending Engineer, V Circle, dated 8th October 1884, No. 2622.
Do. from the Examiner of Public Works Accounts, dated 9th October 1884, No. 506.
From the Government of India, dated 2nd October 1884, No. 994 M.W.

ORDER—dated 18th October 1884, No. 2556 W., Public Works.

Ordered that the schedules of military requirements on account of public works under Buildings and Roads in the Madras Presidency for 1885-86 be forwarded to the Government of India in the Military Department.

2. Ordered also that the lists of military works be printed and circulated to Superintending Engineers, in view to the necessary projects being prepared in detail.

3. The Superintending Engineers should lose no time in submitting the necessary plans and estimates for the unsanctioned works included in the schedules as none of them can find place in the budget estimates for 1885-86 unless regular plans and estimates have been sanctioned.

(Here enter No. 2557 W., dated 18th October 1884.)

(True Extract.)

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

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

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated October, 18th.

Recd. *Encl.*

G.O., 18th Oct. 1884, No. 2556 W.

OCTOBER.

Military Works for 1885-86

Orders on schedules of demands on account of—.

3149
9

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

COLONEL J. SHAW-STEWART, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
MILITARY DEPARTMENT.

SIR,

In forwarding the accompanying proceedings of this Government, No. 2556 W., dated 18th October 1884, with schedules of demands on account of military works for 1885-86, I am directed to solicit the particular attention of the Government of India to paragraph 3 of the Quartermaster-General's letter, No. 1487-A, dated 3rd October 1884, conveying the strong recommendation of His Excellency the Commander-in-Chief that a liberal grant may be made for this service.

I have the honor to be,
Sir,
Your most obedient servant,

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

FORT ST. GEORGE,
18th October 1884.

Exd. E. Fernandez.
Spare Copies

9

GENERAL.
ACCOUNT.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated October, 18th.

Recd.

Encl.

18th Oct. 1884, No. 2557 W.

OCTOBER.

Military Works for 1885-86

Forwarding schedules of demands on account of —.

GENERAL.
ACCOUNT

3149

Appendix to G.O., No. 2556 W., dated 18th October 1884.

BUILDINGS AND ROADS.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1885-86.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Class.	Original Works. Major Works. Works in progress.	Original Works. Major Works. New Works.	Original Works. Major Works. Total.	Original Works. Minor Works.	Original Works. Total.	Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Accommodation for troops—Buildings for European troops in the plains—Permanent.	Presidency ..	Fort St. George.	1	Converting a racket court into a covered gymnasium.	B.	..	11,570	11,570	..	..	..	..	..	..	..	Estimate of Rs. 11,570 sanctioned in G.O., No. 590 W., dated 4th March 1884. Item No. 1 of class B works, budget of 1884-85.
					B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	2	Armourer's shop for the British infantry regiment.	B.	..	10,000	10,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	3	Drainage of fort and barracks	B.	..	2,500	2,500	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	4	Wash-house outside the barracks	B.	..	4,500	4,500	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	5	Garrison bazaars to be done away with and new cook-houses to be built on its site, in the meantime the kitchens to be better ventilated.	A.	30,000	..	30,000	..	..	..	..	..	..	..	Estimate of Rs. 1,35,050 sanctioned in G.O., No. 288 W., dated 4th February 1884. Item No. 1, class A works, budget of 1884-85.
	Chingleput ..	St. Thomas' Mount.	6	New barracks for Royal artillery ..	B.	..	9,000	9,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	7	Coffee shops, three in number, one for each—north, south and the new artillery barracks.	A.	10,160	..	10,160	..	..	..	..	..	..	..	Estimate of Rs. 20,160 sanctioned in G.O., No. 2747 W., dated 1st October 1883. Item No. 1 of class B works, budget of 1884-85.
	Do. ..	Do. ..	8	Constructing six blocks of stables for two field batteries of Royal artillery.	B.	..	5,000	5,003	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	9	A wheeler and collar maker's shop for the new double-storied barracks.	B.	..	3,000	3,000	..	..	..	..	..	..	..	Do.
	Do. ..	Pallavaram ..	10	One mortuary room for each of the three hospitals, Nos. 1 to 3.	B.	..	8,325	8,325	..	..	..	..	..	..	..	Estimate of Rs. 8,325 sanctioned in G.O., No. 938 W., dated 5th April 1884.
	Presidency ..	Bangalore ..	11	Additions to the military prison ..	B.	..	6,200	6,200	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	12	Quarters for a school master and mistress, Royal artillery.	B.	20,000	..	20,000	..	..	..	..	..	..	..	Estimate of Rs. 44,600 sanctioned in G.O., No. 1560, dated 21st June 1876.
	Do. ..	Do. ..	13	Fourth-class gymnasium	B.	..	3,000	3,000	..	..	..	..	..	..	..	Estimate awaited.
	Bellary ..	Bellary ..	14	Water supply to barracks, Royal artillery and British infantry.	B.	..	11,200	11,200	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	15	Alterations and additions to the military provost prison in the fort and to the adjoining disused liquor godowns.	B.	..	12,000	12,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	16	Swimming bath for 2nd battalion, Royal Munsters.	B.	..	5,663	5,663	..	..	..	..	..	..	..	Estimate of Rs. 5,663 sanctioned in G.O., No. 914 W., dated 3rd April 1884.
	Do. ..	Do. ..	17	New gun shed with collar maker's and wheel shop combined for the Royal artillery.	B.	..	6,140	6,140	..	..	..	..	..	..	..	Estimate of Rs. 6,140 sanctioned in G.O., No. 320 W., dated 7th February 1884.
	Do. ..	Do. ..	18	Infectious disease ward and cook house for the station hospital.	B.	..	5,000	5,000	..	..	..	..	..	..	..	Estimate awaited.
	Nilgiri ..	Wellington ..	19	Additional hospital accommodation for women and children.	B.	..	21,835	21,835	..	..	..	..	..	..	..	Do.
	.. ..	Do. ..	20	Gymnasium	B.	..	5,000	5,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	21	Drinking water to be laid on to hospital ..	A.	40,000	..	40,000	..	..	..	..	..	..	..	Estimate of Rs. 1,31,610 sanctioned in G.O., No. 680 W., dated 3rd March 1884. Item No. 2, class A works, budget of 1884-85.
	Coimbatore ..	Mahpuram ..	22	Barracks for detachment, British infantry ..	B.	..	4,690	4,690	..	..	..	..	..	..	..	Estimate of Rs. 4,690 sanctioned in G.O., No. 418, of 10th February 1876.
	Do. ..	Cannanore ..	23	Plunge bath on standard plan for European infantry barracks.	B.	..	2,780	2,780	..	..	..	..	..	..	..	Estimate of Rs. 2,780 sanctioned in G.O., No. 1056, dated 4th April 1879.
	Do. ..	Do. ..	24	Improving latrines for the British infantry ..	B.	..	5,000	5,005	..	..	..	..	..	..	..	Estimate awaited.
Accommodation for troops—Buildings for native troops.	Vizagapatam ..	Vizianagrum ..	25	Regimental store-room including storage for the camp equipage.	B.	..	3,150	3,150	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	26	Three public latrines for the use of the native infantry regiment.												

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1885-86—*cont.*

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.		Original Works. Major Works. Works in progress.	New Works.	Total.	Minor Works.	Total.	Repairs.	Establishment.	Tools and Plant.	Suspense.	Grand Total.	Remarks.
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for troops—Buildings for native troops—*cont.*	Presidency ..	Madras ..	27	Additional sepoy huts for the native infantry regimental lines at Perambur.	B	..	27,400	27,400	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	28	Four latrines for the native infantry regimental lines at Perambûr.	B	..	4,000	4,000	..	..	..	..	..	..	..	Do.
	Do. ..	Bangalore ..	29	Public buildings for a regiment of native cavalry.	B	..	25,237	25,237	..	..	..	..	..	..	..	Estimate of Rs. 25,237 sanctioned in G.O., No. 47 W., dated 10th January 1884 Item No. 24 of class B works, budget for 1884-85.
	Do. ..	Do. ..	30	Accommodation for one regiment of native infantry.	B	..	14,619	14,619	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	31	Store-rooms and workshops for the Pioneer regiment.	B	..	3,000	3,000	..	..	..	..	..	..	..	Do.
	Chingleput ..	Pallavaram ..	32	New lines for one regiment of native infantry ..	B	..	33,000	33,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	33	Regimental magazine for a native infantry regiment.	B	..	4,500	4,500	..	..	..	..	..	..	..	Do.
	Bellary ..	Bellary ..	34	Armourer's shop, Light cavalry	B	..	2,695	2,695	..	..	..	..	..	..	..	Estimate of Rs. 2,695 sanctioned in G.O., No. 2266 W., dated 14th September 1881. Item No. 25 of class B works, budget of 1884-85.
	Do. ..	Do. ..	35	Schoolhouse for the 27th regiment, native infantry.	B	..	3,030	3,030	..	..	..	..	..	..	..	Estimate of Rs. 3,030 sanctioned in G.O., No. 149 W., dated 17th January 1884.
	Coimbatore ..	Quilon ..	36	Store-room for native infantry	B	..	6,000	6,000	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	37	Magazine for native infantry barracks ..	B	..	3,000	3,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	38	Latrines with wells for native infantry barracks.	B	..	3,159	3,159	..	..	..	..	..	..	..	Do.
	Trichinopoly ..	Trichinopoly ..	39	Constructing public buildings for two regiments of native infantry.	A	21,140	..	21,140	..	..	..	..	..	..	..	Estimate of Rs. 35,650 sanctioned in G.O., No. 2194 W., dated 5th September 1884. Item No. 2 of class B works, budget for 1884-85.
Ordnance Works..	Presidency ..	Fort St. George.	40	Armament of Fort St. George ..	A	30,000	..	30,000	..	..	..	..	..	..	..	Estimate of Rs. 42,035 sanctioned in G.O., No. 2970 W., dated 19th October 1883. Item No. 6, class A works, budget for 1884-85.
	Do. ..	Madras	41	Demolishing and re-erecting the present wheel shops of the gun-carriage factory, Madras	B	..	7,850	7,850	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	42	Extra accommodation as store-rooms in the gun-carriage factory.	B	..	6,000	6,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	43	Improvements to the gunpowder factory ..	A	20,000	..	20,000	..	..	..	..	..	..	..	The total sanction of estimates amounts to Rs. 2,48,492. Item No. 7, class B works, budget for 1884-85.
Commissariat Buildings.	Do. ..	Do. ..	44	Quarters for warrant and non-commissioned officers of the Commissariat Department.	A	11,740	..	11,740	..	..	..	..	..	..	..	Estimate of Rs. 26,740 sanctioned in G.O., No. 1836 W., dated 31st May 1883. Item No. 3 of class B works, budget for 1884-85.
	Do. ..	Do. ..	45	Constructing a shed in the camp equipage depot.	B	..	5,300	5,300	..	..	..	..	..	..	..	Estimate awaited.
	Do. ..	Do. ..	46	Lines for 17 petty officers and 177 cattle attendants attached to Transport Department.	B	..	48,000	48,000	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	47	Godowns for workshops and sheds for keeping 90 army transport and 24 ambulance carts, doolies &c.	B	..	6,500	6,500	..	..	..	..	..	..	..	Do.
	Do. ..	Bangalore ..	48	Quarters for a Conductor, Transport Department.	B	..	4,220	4,220	..	..	..	..	..	..	..	Do.
	Chingleput ..	Guindy ..	49	Converting the late Superintending Engineer's office at Guindy into a Commissariat slaughter-house.	B	..	11,800	11,800	..	..	..	..	..	..	..	Estimate of Rs. 11,800 sanctioned in G.O., No. 1399 W., dated 12th May 1884.
	Do. ..	Do. ..	50	Quarters for station butcher ..	B	..	4,740	4,740	..	..	..	..	..	..	..	Estimate awaited.
	Nilgiri ..	Wellington ..	51	Bakery	B	..	27,000	27,000	..	..	..	..	..	..	..	Estimate of Rs. 32,000 sanctioned in G.O., No. 1838 W., dated 29th July 1884.
Fortifications ..	Presidency ..	Bangalore ..	52	Constructing a fortified post and ordnance depôt at Agaram.	A	2,800	..	2,800	..	..	..	..	..	..	..	Estimate of Rs. 34,280 sanctioned in G.O., No. 3060 W., dated 30th October 1883. Item No. 4, class B works, budget for 1884-85.
				Total ..		1,85,840	3,99,745	5,85,585	80,194	6,65,779	*3,70,000	2,38,228	10,858	..	12,84,865	

* Includes [illegible] on account of municipal taxes on military buildings.

QUARTERMASTER-GENERAL'S OFFICE,

Ootacamund, 9th December 1884.

Barracks and Buildings Estimates.

No. 2373/A

3149/11/12/1

From

THE QUARTERMASTER-GENERAL,

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT.

SIR,

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

I. Detailed and Abstract Estimate amounting to Rupees 2880 for Constructing an Armourer's Shop for the Regiment of Madras Infantry at Pallavaram.

II. Report and Specification.

I have the honor to be

Sir

Your Obedient Servant

A. Hutchins

Major

Offg. Dy. Qmr. Genl

H

M S

3149
12

Military (1884) Department.

No. 6394

From

The Quartermaster-General,

To

The Secretary to Government,

Military Department.

SECRETARY TO GOVERNMENT 13 DEC 84 MILITARY DEPARTMENT MADRAS

No 6182.

Approved and transferred to the Public Works Dept. for final disposal

(By Order)

A. Kenney Herbert Col

Offg. Secy to Govt.

No. 2373/4

Dated 9 } December
Recd. 11 }

Enclosures. 4

Forwards for sanction Estimate amounting to Rs. 2880 for Constructing an Armourers Shop for the Regiment of Madras Infy at Pallavaram.

J. F. Moore
12 Decr. 84

Public Works Department, 1884-85.

Sanction
C.A.
15-12-84

Current No. 10364 3149/13

Letter No. 6182

Dated the 12th December/84

From the Mil: Secy. to Govt.

Note of Remarks.

1. This estimate provides for constructing an Armourer's shop for the Regiment of N. Infantry at Pallávaram. The estimate amounts to Rs. 2,880.

2. The shop is to be built in accordance with the standard design which accompanied P.W.D. Circular No. 47 of the 27th July/75.

3. The estimate has been countersigned by the Offg. Dy. Qr. Mr. Genl.

A. No. 3149 & of 22d Dec/84

15th Dec/84

B.H.

3149 W

Accompaniment to P.W.D. Circular No. 47 dated 27th July 1875.

MILITARY PLAN

ARMOURER'S SHOP

FOR A NATIVE INFANTRY REGIMENT

Scale 10 0 5 0 10 20 Feet

TRANSFERRED BY M. JACOB PHOTOLITHOGRAPHER MADRAS SEPTEMBER 1875

3149/14

Approved in Military Department.
No. 1275 dated 23rd Feby 1875.

Notes on certain points of details connected with Armourer's shops for Native Infantry.

1. *Racks for drying barrels should be provided all round the drying room.*
2. *A flue should be carried from the browning trough through drying room in order to help to warm that room without the necessity for any stove therein, and the flue of the forge should be carried up as a distinct flue separate from that for browning trough.*
   (N.B. This arrangement should be regarded a tentative measure.)
3. *The doors between rooms should be plain, batten and not panel.*
4. *The windows should be glazed as well as barred.*
5. *The floors of all the rooms should be paved with bricks, tiles or stones.*
6. *The iron chowkats for furnace doors should be secured by iron holdfasts into the brick-work on both sides and not on one side only, and should also be secured into the brick footing below.*
7. *Armourer's shops that may have been lately built may be altered to conform as nearly as possible with the present standard plan.*
8. *Armourer's shops fitted up in old buildings, should be so arranged as to provide equal area and conveniences according to the present standard plan.*
9. *The Ordnance Department is authorized to supply a trough and bellows to be put up by the Public Works Department.*

SPECIFICATION OF FITTINGS TO BE SUPPLIED BY THE D. P. W.

FOR THE WORKSHOP.

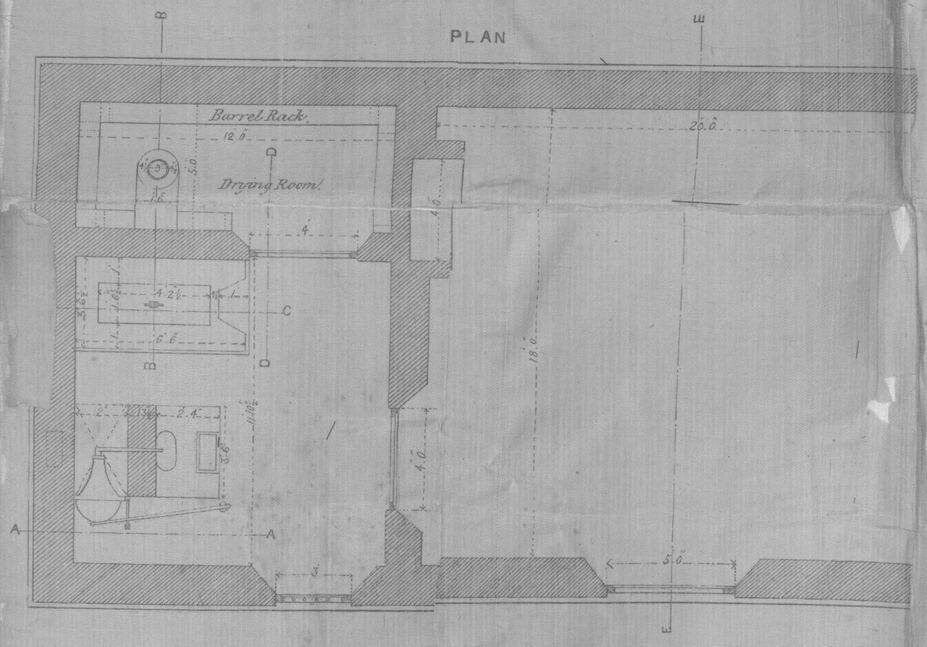
1. *A Door, between Rooms, of plain batten.*
2. *All Floors to be paved with Bricks, Tiles or Stones.*
3. *Iron Chowkats, for Furnace Doors, to be secured by Iron Holdfasts let into brickwork, on both sides, as well as into flooring.*
4. *The Windows to be glazed, barred, face the North, and constructed to throw light on the Armourer's Bench.*
5. *Arm-racks for about 80 stand, to hold also Barrels for Infantry short Rifles, for Cavalry, Carbines, in and out of stock.*
6. *A Cupboard in the wall, 7'6" × 4, with four Shelves and Lock and Key to Door.*
7. *A Bench 32' high, 3' wide, to run the whole length of North side with fittings for a Vice.*
8. *A Rack for Files and Tools above the Bench and*
9. *a Shelf for Tools above the Rack.*
10. *Door of Shop to be provided with Lock and Key.*

IN THE DRYING ROOM

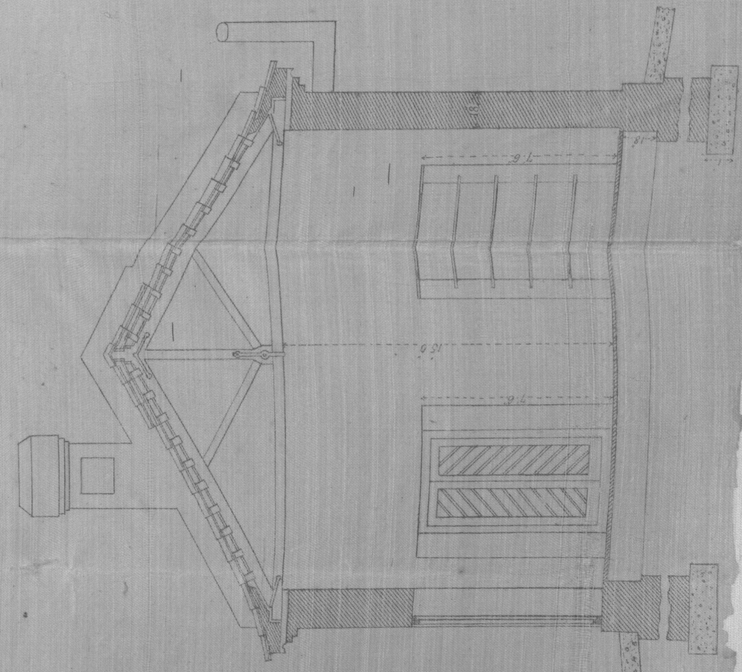
11. *Racks for 80 or 100 Barrels, only, undergoing browning; lower Shelf with holes for the Fangs, upper Shelf with notches, distance between the Shelves to hold either a short Infantry Barrel, or, for Cavalry, a Carbine Barrel, to be supplied by the Ordnance Department and put up by the D.P.W.*
12. *A Trough or Boiler for boiling the Barrels.*
13. *An Anvil of about 90 lbs in weight.*
14. *A Bellows for the Forge.*
15. *A standing Vice of 40 lbs.*

(Signed) W.A. Crommelin, Colonel R.E.
Dep^y Sec^k to Gov^t of India
P.W.D.

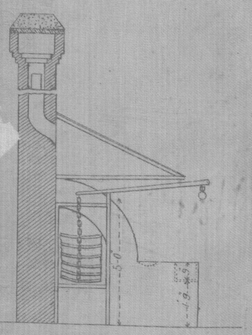
PLAN



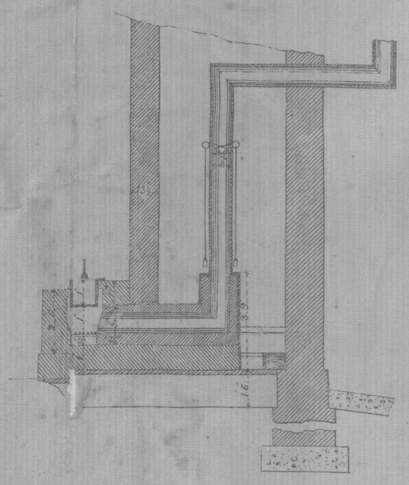
SECTION ON E.E.



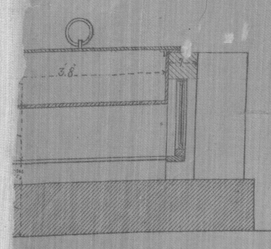
ELEVATION ON A.A



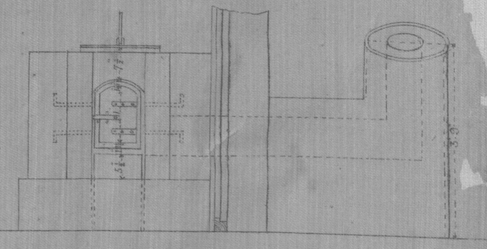
SECTION ON B.B.



SECTION ON C.C.



ELEVATION ON D.D



Scale for enlarged details 2 Feet = 1 Inch

Govt Lith^c Press, Fort St George
Madras October ..... 1875.
EX^d BY J.W. JACKSON

A/ No. 3707 Mily. Works.

PUBLIC WORKS DEPARTMENT.

3149/15

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 22d December 1885.

READ the following

From the Quarter Master General - H. E. No: 2373/A dy 9th December 1884.
Endorsement thereon by the Military Deptt. H. E. No: 6182 dy 12th December/84.

The estimate amounting to Rs. 2,880 for constructing an armourer's shop for the Native Infantry Regiment at Pallavaram, is sanctioned for execution when funds are available.

2. This sanction has been registered as Imperial Ordinary No 57/h of 1884-85, and classified as 37 Military, Original Works

CB.
22.12.84

Dct 1/1/85

To The Supdg. Engr. II circle with 2 encls.
" Examiner P. W. Accts with
duplicate
" Military Deptt.

W 20/12

Cr

4

3149
16

B
22/12

16

10384

Govt. of (1884) Madras.

PUBLIC WORKS.

(16)

Dated 23/12

Recd. Encl. : 1

G.O. Decr. 22d 1884, No. 3149W.

Armourer's shop for the N. I. Regt at Pallavaram

Est. for constn. sanctioned

60/4

22/12