Public Works Dept.
Proceedings of the Madras Govt.
Read the following

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

16th December 1884, No. 6251.

Commissariat Department.

Read the following papers :—

No. 179. *From Colonel B. H. W. MAGRATH, Commissary-General, to Colonel E. L. HANKIN, Secretary to Government, Military Department; dated Madras, 8th December* 1883, *No.* 5472.

I have the honor to inquire to what extent the arrangements set forth in proceedings which accompany Proceedings of Government, No. 6156, dated 14th November 1883, affect this presidency.

2. In Government of India, Military Department letter, No. 265-S.D., dated 8th May 1883, therewith printed, it is decided that the Commissariat department shall undertake the duty of receiving, shipping, landing and distributing stores of all kinds and for all departments on the occasions of future equipment and despatch of expeditions beyond sea.

3. If this ruling is to apply to Madras, special arrangements must be organized beforehand, in order that the necessary machinery may be in readiness in the event of an expedition to Burma or elsewhere being determined on.

No. 211-8900.

Forwarded.

BANGALORE,
12*th December* 1883.

(Signed) R. C. STEWART, Brigr.-Genl.,
Quarter Master General.

To the Secretary to Government, Military Department.

No. 6735.

The Commissary-General is requested to report, through the Controller of Military Accounts, what special arrangements (and their cost) it will be necessary to make if the order he refers to be adopted in this presidency.

(By Order.)

FORT ST. GEORGE,
14*th December* 1883.

(Signed) E. L. HANKIN, Colonel,
Secretary to Government.

No. 180. *From Colonel B. H. W. MAGRATH, Commissary-General, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Madras, 27th March* 1884, *No.* 7899.

In reply to your endorsement, No. 6735, dated 14th December 1883, on my letter,* No. 5472, dated 8th December 1883, on the subject of the shipment by

* Herewith returned.

the Commissariat of the stores of all departments for troops proceeding on field service by sea, I have the honor to report as follows :—

2. When compared with either Bengal or Bombay, Madras is most unfavorably situated for the rapid shipment of stores for an expedition. Calcutta has its long series of jetties with powerful steam cranes and a branch of the railway running close alongside; there is also ample warehouse accommodation, a portion of which would be exclusively allotted for Commissariat use. Bombay has even greater advantages in the way of docks and warehouses.

3. In Madras we have a so-called harbour and a small pier. The pier would not be available for Commissariat work, for its very limited capabilities would be taxed to the utmost to provide for the shipment of troops, horses and baggage.

4. The harbour is at best but a partially protected roadstead. Ships cannot lie alongside as in a dock, and every item of Commissariat stores must be first carried down from the Commissariat depôt, placed in a boat, brought alongside the transport and then hoisted on board, a most tedious and laborious process where time is an object.

5. This difficulty might be lessened by making use of the temporary rails along the south arm of the harbour enclosure and connecting them with the Government granary. The boats could then lie alongside the harbour wall, and the stores could be transferred into them with the minimum of labor. The South Indian Railway would doubtless supply as many trucks as might be necessary.

6. But as the present granary would be far too small to hold the stores for even a small expedition, it would be necessary to hire another series of godowns as near as possible to the north end of the harbour and to connect them by rail with the harbour wall in the same way.

7. Moreover, the harbour is of very limited extent, and after a certain part has been reserved for the normal amount of shipping frequenting the port, the remainder available for the exclusive use of the transports taken up for the expeditionary force would probably be insufficient to accommodate them all, and a certain number of the transports would probably have to lie outside in the roadstead.

8. If, as is almost invariably the case, the expedition has to be despatched in haste, the local supply of boats would hardly suffice. They could, however, be supplemented by others obtained from ports on the coast through the Marine department.

9. A certain number of boats should be placed at the sole disposal of the Commissariat department, the boats being hired at monthly (or weekly) rates. Without data as to the strength of the force, it is difficult to estimate the exact number which would be required, especially as so much depends on the weather, the number of the ships in the harbour and in the roadstead, and a variety of other circumstances. Assuming that each boat will carry 2½ tons (they actually carry 3 tons, but with light goods this amount cannot always be put in them) and would make five trips per day in the harbour and three trips outside, the number required for a force of 2,000 Europeans or Natives with their followers, horses, transport cattle and stores would not fall short of 100 boats daily for say eight days.

```
4,000 tons of stores—4,000 equal to 4,000 tons
  of horses, troops, followers.
     Tons.
   2½ ) 8,000
        -----
     4 ) 3,200  trips.
        -----
Days 8 )   800 }
          ----- } Boats whole time.
         * 100 }
        -----
 5 trips in harbour.
 3   „    outside.
 —
 4 average.
 —
```

* Boats, daily, for eight days.

10. In taking up transports the owners and agents should be given very distinctly to understand that the usual clause in the Charter Party which requires them to give all necessary assistance with ships' boats would be enforced if necessary. A proviso should also be entered for the entertainment by the ship of sufficient coolies for the hoisting in and stowage of the cargo with the utmost possible rapidity.

11. Special arrangements should be made for the stowage of provisions intended for use on board, distinct from any reserve stock which may be shipped on the same vessels. The Marine department would doubtless arrange for the shipment of all the water required.

12. It remains to decide upon the establishment required. The recent equipment of several expeditions at Bombay affords the most complete data on the subject, and viewing the much greater facilities as regards docks and warehouses in that presidency, the establishment required in Madras would be at least as great and probably greater than that found necessary in the Bombay presidency.

13. I prefer, however, to recommend that the Commissary-General be authorized by Government to entertain, on his own responsibility, an establishment on the same scale as that lately required in Bombay, and that any further additions to that establishment which may be required in consequence of the greater difficulty of shipping in Madras be specially sanctioned by Government on the application of the Commissary-General. I trust that the Government will be good enough, if they approve of the scale here recommended, to sanction it for future use, so that when an expedition is contemplated the Commissary-General may know beforehand what establishment he is authorized to entertain, and may make timely arrangements for bringing down capable men from other stations and entertaining others locally; so that when once the order for the equipment of the force is issued, there may be no hurry or hesitation, and no waiting for orders which would entail irretrievable loss of much valuable time.

14. Taking the figures given in letter of Commissary-General, Bengal, published in Proceedings of Madras Government, No. 6156, of 14th November 1883, it will be seen that for 5,660 British and Native troops the establishment required was as follows :—

Establishment at port of embarkation.

1 Chief Commissariat Officer in charge of receiving and shipping depôt.
4 Commissariat Officers.
5 Warrant Officers.
23 Clerks.
50 Inspectors, besides a few on daily wages.
19 Weighmen.
20 Peons.

Establishment at port of debarkation.

2 Commissariat Officers.
3 Warrant Officers and Sergeants.
9 Clerks.
1 Duftry (Moochee).
1 Shroff.
2 Peons.
1 Interpreter.
2 Overseers.
12 Inspectors.
12 Weighmen.
Coolies and other establishments as required.

15. At the above ratio the numbers for every 2,000 men, Europeans or Natives, should be—

Proposed establishment at the port of embarkation.

1 Chief Commissariat Officer (for a force of any size).
1 Commissariat Officer.
2 Warrant Officers.
8 Clerks.
15 Inspectors.
6 Weighmen.
6 Peons.

Proposed establishment at the port of debarkation.

1 Commissariat Officer for every 3,000 men or less.
1 Warrant Officer or Sergeant.
3 Clerks.
1 Duftry.
1 Shroff.
1 Peon.
1 Interpreter (for a force of any size) if required.
1 Overseer.
4 Inspectors.
4 Weighmen.
Coolies as required.

16. The probable cost of these establishments is given in the annexed statement, but the nature of the expedition has so much to do with the salaries which must be paid that it can be considered only as mere approximation.

17. The above remarks have reference to the despatch of an expedition from this place. As regards Rangoon no expedition is likely to be *embarked* from that place, though a force may at any time be *landed* there. Rangoon has great conveniences in the matter of wharves, but they are all (with the exception of the Commissariat wharf) the property of the Port Commissioners. Ships cannot lie alongside the Commissariat wharf, all landing and shipping must therefore be effected at some of the other wharves, to be specially allotted for the purpose, under the orders of the Chief Commissioner.

18. But if the facilities of landing troops and stores at Rangoon are greater than those which exist in Madras, it must be remembered that the landing of the troops would only form one portion of the operations. Simultaneously with the landing of the expedition from the steamers which brought them from the coast, a re-embarkation on river steamers and flats would probably be going on, so that Commissariat establishments would be required in numbers fully equal to those laid down for Madras. If no such re-embarkation should be necessary, one-half of the establishment allowed for Madras would be sufficient.

Estimate of monthly cost of establishments for shipping stores for 2,000 troops proceeding on field service from Madras.

	RS.
At port of embarkation.	
1 First-class Clerk	150
2 Second-class Clerks, at Rs. 90	180
3 Third-class Clerks, at „ 50	150
2 Fourth-class Clerks, at „ 30	60
15 Inspectors, at „ 30	450
6 Weighing Men, at „ 18	108
6 Peons, at „ 8	48
At port of debarkation.	
1 First-class Clerk	150
1 Second-class Clerk	90
1 Third-class Clerk	50
(Foreign service batta as usual).	
1 Duftry	25
1 Shroff	100
1 Peon	8
1 Interpreter	50
1 Overseer	50
4 Inspectors, at Rs. 50	200
4 Weighers, at „ 20	80
Coolies as required	...
	1,949

MADRAS,
March 1884.

(Signed) B. H. W. MAGRATH, Colonel,
Commissary-General, Madras.

No. 181. *Report from Lieutenant-Colonel C. CARTER, Controller of Military Accounts, to Lieutenant-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Fort St. George, 30th April 1884, F.*

In forwarding the accompanying letter from the Commissary-General, I have the honor to state that the rates of pay for clerks are those at present in force. The pay of weighingmen at the port of embarkation is set down at Rs. 18 each per mensem, while that now paid at Madras is Rs. 7. It is for Government to determine whether the proposed rate may be allowed in consideration of the exceptional nature of the service on which the men will be engaged. The pay proposed for a weighingman at the port of debarkation is Rs. 20, against Rs. 17-8-0, the rate now paid at Rangoon. The pay of a peon is fixed at Rs. 8, against Rs. 7, the rate in force at Madras.

No. 7899, of 27th March 1884, *in re* arrangements for the Commissariat department to provide an expeditionary force embarking at Madras with the requisite stores, with cost of such arrangements.

2. The scale, however, has been based on that found necessary in Bombay, where almost every condition differs from that at Madras. To be of any value I would submit that the scale to be fixed should be based on the requirements and capabilities of this port. Should Government desire such a scale to be prescribed, it might be considered desirable to appoint a special committee which might consist of Commissariat, Regimental and Marine officers.

No. 2087.

Referred, with previous papers, for favor of opinion to the Commander-in-Chief, with advertence to the suggestion in the 2nd para. of the Controller's report, and for the name of the Regimental Officers whom His Excellency would propose to employ on the committee if the Commissary-General's suggestion be approved.

(By Order.)

OOTACAMUND,
3rd May 1884.

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

No. 182. *From Brigadier-General R. C. STEWART, Quarter Master General, to Lieutenant-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Ootacamund, 26th May 1884, No. 191-A.*

In returning the correspondence referred to the Commander-in-Chief under your docket,* No. 2087, dated 3rd May 1884, I have the honor, by order, to state that His Excellency approves of the suggestion contained in para. 2 of letter, F., dated 30th April 1884, from the Controller of Military Accounts that a special committee be appointed to consider the arrangements for the shipment of stores and establishment necessary for an expeditionary force, and His Excellency proposes that the following Regimental Officers, &c., be appointed on the committee :—

* Transferred by the Adjutant-General to this office.

Major S. E. Atkinson, Deputy Assistant Quarter Master General, Eastern District, as an officer of the Indian service.

Quarter Master W. Hogan, 2nd Battalion, South Wales Borderers, as an officer of the British service.

No. 2551.

Referred to the Marine department, with the request that an experienced officer of the Master Attendant's department may be nominated as a member of the proposed committee.

(By Order.)

28th May 1884.

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

No. 1181.

Referred to the Acting Master Attendant, with request that he will nominate a Marine Officer to sit on the committee.

OOTACAMUND,
2nd June 1884.

(Signed) E. F. WEBSTER,
Chief Secretary.

No. 183. *From T. E. MARSHALL, Esq., Acting Master Attendant, Administrative Department, to the Hon. E. F. WEBSTER, Chief Secretary to Government, Marine Department; dated Madras, 5th June 1884, No. 5407.*

Letter from the Quarter Master General to the Secretary to Government, Military Department, No. 191-A., dated 26th May 1884, with endorsement in Marine Department No. 1181, dated 2nd June 1884, and enclosures.

In returning the correspondence marginally noted relative to the appointment of a committee to consider the arrangements for the shipment of stores and troops for an expeditionary force, I have the honor, in compliance with your endorsement thereon, numbered 1181, and dated 2nd June 1884, to nominate Mr. W. H. Bartlett, the First Assistant Master Attendant, as the Marine member of the committee.

2. I would here add that a reference to the Proceedings of Government, Military Department, No. 2299, bearing date 30th April 1879, would afford the committee much valuable information as to the prompt despatch with which Madras could, in the event of an emergency, be capable of starting an expeditionary force.

No. 1305.

Forwarded to the Military Department. The nomination of Mr. Bartlett is approved.

OOTACAMUND,
16th June 1884.

(Signed) E. F. WEBSTER,
Chief Secretary.

No. 184. No. 2979.

President.

Colonel H. P. Hawkes, Deputy Commissary-General.

Members.

Nominated by His Excellency the Commander-in-Chief—
Major S. E. Atkinson, Deputy Assistant Quarter Master General, Eastern District.
Quarter Master W. Hogan, 2nd Battalion, South Wales Borderers.
Nominated by the Marine Department—
Mr. W. H. Bartlett, Assistant Master Attendant.

The Right Honorable the Governor in Council resolves to appoint a committee, composed as per margin, to consider and report what special arrangements are necessary at Madras to enable the Commissariat department to undertake the shipment of the stores of all departments for troops proceeding thence on field service by sea, and to propose a scale of pay for the necessary establishments.

2. The committee will be furnished with an extract from the Controller's report above recorded, and by the Commissary-General with a copy of his letter to Government, No. 7899, dated 27th March 1884, together with the correspondence therein cited.

3. On the conclusion of the inquiry, the report of the committee will be forwarded to the Commissary-General for submission to Government through the Controller of Military Accounts. The committee will then be dissolved.

(By Order.)

OOTACAMUND,
23rd June 1884.

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

To Colonel H. P. Hawkes, Deputy Commissary-General, with 1 enclosure; the Commissary-General; the Quarter Master General; the Controller of Military Accounts; the Marine Department.

No. 185. *From Colonel B. H. W. MAGRATH, Commissary-General, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Madras, 28th July 1884, No. 2513.*

Adverting to para. 3 of Proceedings of Government, No. 2979, dated 23rd June 1884, I have the honor to forward, for submission to Government, Proceedings of the Committee appointed to consider and report what special arrangements are necessary at Madras to enable the Commissariat department to undertake the shipment of the stores of all departments for troops proceeding thence on field service by sea, and to propose a scale of pay for the necessary establishments.

PROCEEDINGS of a Committee assembled under the orders conveyed in Proceedings of Government, No. 2979, of the 29th June 1884, to "consider and report what special arrangements are needed at Madras to enable the Commissariat department to undertake the shipment of the stores of all departments for troops proceeding thence on field service by sea, and to propose a scale of pay for the necessary establishments":—

President:

Colonel H. P. HAWKES, Deputy Commissary-General.

Members:

Major S. E. ATKINSON, Depy. Assist. Quarter Master General, Eastern District.
Quarter Master W. HOGAN, 2nd Battalion, South Wales Borderers.
Mr. W. H. BARTLETT, Assistant Master Attendant.

The Committee proceeded, in the first instance, to inspect personally the accommodation in the possession of the Commissary-General for collecting the stores of all departments to equip an expedition by sea.

2. The only building now remaining to the department is one on the first line beach known as the "Commissariat granary." This consists of two parts, viz., a building which appears to have been originally a native house of the better sort, and comprises nine small narrow rooms, very inconvenient for departmental purposes, and very deficient as regards suitable ventilation. These rooms are built round a small square court-yard as is usual with native houses, and are surrounded by covered verandahs.

3. Adjoining this building is an open square in which are two good godowns and three sheds.

4. Exclusive of verandahs and guard-rooms, &c., the covered area of the "Granary" (including sheds) available for use measures 20,338 superficial feet.

5. The Committee are informed that the Commissariat formerly possessed on the same line of beach a second establishment known as the "Timber depôt." This, with a far greater area than the present granary, had godown accommodation to the extent of 22,214 superficial feet. This second depôt, which was always used in communication with the granary on every occasion of the equipment of troops for service, was long ago resumed by the State as a site for the Stationery office and part of the present Post office. This deprived the department of more than one-half the accommodation available for the equipment of an expedition by sea.

6. The Committee fully agree with the Commissary-General that the accommodation of the present granary would be quite insufficient for even purely departmental wants, and would leave the question of storage for the consignments of other departments totally unprovided for. They therefore proceeded to inspect the native rice godowns lying to the north of the Custom House, to see if it would be advisable that they should be hired in time of need to supplement the existing accommodation. They found that the few which fronted on the first line beach were small, disconnected with each other, deficient in ventilation, and had no inner yards or enclosures where all the multifarious duties of cleaning, weighing, bagging, and marking could be carried on. Similar godowns in rear of the row on the sea-face are of the same description; they all abut upon very narrow lanes in the midst of a dense population, have no conveniences for access, and are therefore even more unsuitable than those in the front line first examined.

7. The Commissary-General's proposal to hire godowns being therefore found impracticable, it occurred to the Committee that if an upper storey could be built over the full length of the sea-face of the granary, it would provide accommodation for all perishable stores, such as clothing, medical equipments, &c., &c., and though the increased accommodation thus provided would still be far less than what would be sufficient to enable the department to carry out its duties satisfactorily, it would be the best arrangement that could be made in view of the diminished accommodation now in their possession.

8. They accordingly put themselves in communication with the Executive Engineer, who, having caused the walls to be carefully examined, reported that they would not sustain a second storey, but would have to be wholly rebuilt.

9. The Committee cannot help thinking that if the department is to be held responsible for being at all times in a position rapidly to equip an expedition, the cost of rebuilding the front line of the granary with an upper storey should be incurred. The granary, even in its enlarged form, would have to be largely supplemented by temporary sheds run up on the beach. Ordnance ammunition and tents would still have to be parked on the beach in Commissariat charge, and shipped from thence as the transports were ready.

10. But being desirous, if possible, of submitting to Government an alternative proposal, the Committee endeavoured to ascertain whether there was no large building conveniently situated which could be temporarily placed at the disposal of the Commissariat department whenever it has to provide for the despatch of an expedition by sea.

11. The only building which answered this description was found to be the Ráyapuram Railway terminus. Since the opening of the new Central Station, the Ráyapuram terminus is almost disused. We believe that one or two unimportant trains start daily, but the traffic is so insignificant that there would be no difficulty in making temporary arrangements for this traffic quite independent of the present station.

12. The terminus is a fine, lofty covered building with platforms on either side and four lines of rail running through it. The platforms are narrow, but could be readily enlarged by roughly boarding over one of the lines of rail on each side; there is convenient access for carts along their whole length, and they would thus be admirably suited for receiving grain and provisions in bulk, for cleaning, weighing, repacking, and marking.

13. When the stores were ready for shipment, the articles for each transport would be collected in one place and transferred direct into the trucks and carried off to the beach, the present lines of rail being connected with those on the beach by a short siding; a temporary wooden bridge would join the two platforms.

14. If the space is found insufficient, as will probably be the case, the marking and sewing of the bags could be done on the open asphalted platform which runs eastward in continuation of the covered north platform; and in the case of an expedition embarking during the rains, this open platform could be covered with a temporary roof of mats or tarpaulins.

15. Under this arrangement, the granary would be devoted solely to the reception of the whole of the *stores of other departments*, and from it they would be shipped direct under the supervision of a Commissariat officer.

16. The Committee have not thought themselves authorized to communicate with the Railway authorities in anticipation of the decision of Government on the subject; but they think that, in the event of this second plan being adopted, it would be desirable that the consent of the Railway authorities should be obtained at once, and that the matter be not left open until the necessity arises. As the occupation of the terminus would be very temporary, we doubt not that permission will be accorded without hesitation.

17. For facility of reference, we here recapitulate the two plans. Apart from the financial aspect of the question, the Committee would give the first plan the preference, on the principle that the Commissariat department should have under its own exclusive control sufficient accommodation for all the duties required of it—

First.—To rebuild the present sea-face of the granary and to provide an additional upper storey throughout its full length; to give the Commissary-General authority to construct on the beach as many temporary sheds as may be necessary to cover bulky goods, such as tents, ordnance stores, firewood, &c., which could not possibly be stored in the present granary, even with the increased accommodation proposed.

Second.—To obtain the consent of the Railway authorities to lend the Commissariat, during an expedition, the Ráyapuram Railway terminus; to provide additional space by boarding over one line of rails on each platform; to make a temporary bridge between the two platforms, and to connect one of the lines of rail on each side to the main line running along the beach; to use the granary for collecting the stores of other departments.

18. As regards the Commissariat establishments which would be necessary to the perfect efficiency of the department in the anxious duty of equipping a force, the Committee feel that, on this point, the Commissary-General's long experience is of far more value than any suggestions they could offer. They think that, where enormous sums of money are spent in the equipment of a force, it would be a most unwise policy to stint the supervising establishment on which the economy and efficiency of all the arrangements entirely depends. During the first few weeks after the collection of stores has commenced, everything is new, the men have not settled down into their places, and the machine runs somewhat roughly, and, with a stinted and insufficient establishment, the responsibility of the department is enormously increased and the risk of failure is great.

19. The establishment proposed by the Commissary-General looks somewhat liberal *on paper*, but any one who has had experience in these matters will not require to be reminded how many incidental duties arise which are not at first reckoned on, and how one clerk after another has to be diverted to duties not originally foreseen, nor must it be forgotten that, on these occasions, the work goes on all day and all night, and that consequently there would seldom be more than half the numbers present at one time.

20. They therefore recommend that the scale of establishment given in para. 15 of the Commissary-General's letter of 27th March be adopted. The rates of pay seem suitable, but when existing establishments are transferred to the expeditionary godown, it should be arranged to post them to a higher grade than their permanent one, so that there may be some compensation for the extra labor and responsibility.

Para. 15. "At the above ratio the numbers for every 2,000 men, Europeans or Natives should be—

Proposed establishment at the port of embarkation.

1 Chief Commissariat officer (for a force of any size).
1 Commissariat officer.
2 Warrant officers.
8 Clerks.
15 Inspectors.
6 Weighmen.
6 Peons.

Proposed establishment at the port of debarkation.

1 Commissariat officer for every 3,000 men or less.
1 Warrant officer or sergeant.
3 Clerks.
1 Duftry.
1 Shroff.
1 Peon.
1 Interpreter (for a force of any size) if required.
1 Overseer.
4 Inspectors.
4 Weighmen.
Coolies as required.

Estimate of monthly cost of establishments for shipping stores for 2,000 troops proceeding on field service from Madras—

At port of embarkation.

	RS.	A.	P.
1 First-class clerk	150	0	0
2 Second-class clerks, at Rs. 90	180	0	0
3 Third-class clerks, " " 50	150	0	0
2 Fourth-class clerks, " " 30	60	0	0
15 Inspectors, " " 30	450	0	0
6 Weighmen, " " 18	108	0	0
6 Peons, " " 8	48	0	0
At port of debarkation.			
1 First-class clerk	150	0	0
1 Second-class clerk	90	0	0
1 Third-class clerk	50	0	0
(Foreign service batta as usual.)			
1 Duftry	25	0	0
1 Shroff	100	0	0
1 Peon	8	0	0
1 Interpreter	50	0	0
1 Overseer	50	0	0
4 Inspectors, at Rs. 50	200	0	0
4 Weighers, " " 20	80	0	0
Coolies as required	...		
Total ...	1,949	0	0

21. The Commissary-General's proposal to ship stores direct into boats from one of the arms of the harbour wall is shown by the Marine member of the Committee to be impracticable and is, therefore, abandoned.

22. The Marine member is of opinion that there will be no difficulty, on sufficient notice being given, in providing the number of boats stated by the Commissary-General to be necessary, but the Committee anticipate the possibility of difficulties arising, in consequence of the boatmen not being sufficiently under the control of the Marine department, so far as compelling them to keep to their work within the regulated hours, the Marine authorities having no power to punish for infringement of contract, except through the Police department. There are 100 masulah boats and 73 lighters—each masulah boat carries two tons, and each lighter ten tons.

23. The Marine department would also arrange for supplying the transports with the needful quantities of water.

24. Finally, the Committee would advert to the desirability of data being collected as to the means available in Madras for pressing hay for shipment. This is always an anxious and difficult task, and as the export of raw cotton from this port has greatly decreased of late years, special arrangements for hay presses seem advisable if the local market is unequal to the task.

MADRAS,
18th July 1884.

(Signed) H. P. HAWKES, Colonel,
Deputy Commissary-General, } *President.*

(") S. E. ATKINSON, Major,
Dy. Asst. Quar. Mas. Genl.,
(") W. HOGAN, Quarter Master,
2nd Battn., South Wales Borderers,
(") W. H. BARTLETT,
1st Assistant Master Attendant, } *Members.*

No. 186. *From Colonel C. CARTER, Controller of Military Accounts, to Lieut.-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Fort St. George, 30th July 1884, B.*

No. 2513, of 28th July 1884, forwarding Proceedings of Committee appointed to report on the special arrangements and establishments necessary at Madras to enable the Commissariat department to undertake the shipment of the stores of all departments for troops embarking for field service.

In forwarding the accompanying letter from the Commissary-General, I have the honor to state that the scale of establishment and pay recommended for adoption in para. 20 of the Proceedings of Committee forwarded by the Commissary-General is that reported on in this office No. F., of 30th April 1884.

No. 3685.

Referred for favor of His Excellency the Commander-in-Chief's remarks.

(By Order.)

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

1st August 1884.

To the Quarter Master General.

No. 187. *From Brigadier-General R. C. STEWART, Quarter Master General, to Lieutenant-Colonel A. KENNEY-HERBERT, Officiating Secretary to Government, Military Department; dated Ootacamund, 13th August 1884, No. 905-A.*

In returning the correspondence which accompanied Reference Order, No. 3685, dated 1st August 1884, I am desired to remark that in the opinion of the Commander-in-Chief the recommendations of the Committee which lately met to consider and report what special steps are necessary at Madras to enable the Commissariat department to undertake the shipment of stores of all departments of troops proceeding on field service by sea, and to propose a scale of pay for the necessary establishments are sound.

2. Sir Frederick Roberts appreciates the absolute necessity of providing suitable accommodation for the reception and preparation for despatch of all stores required for an expedition proceeding beyond sea; but it would, in Sir Frederick Roberts' opinion, be beyond the power of the Commissariat department to accomplish all that is required of it unless sufficient storage accommodation is prepared for the reception of goods. His Excellency therefore hopes Government will take into early consideration the proposal of the Committee to rebuild the sea-face of the granary, and to provide an additional upper storey to it.

3. The Commander-in-Chief coincides with the Committee in their proposal to utilize the Railway terminus at Ráyapuram for the reception of stores on an occasion such as that under discussion, but His Excellency desires me to remark that, in the event of an expedition being despatched from Madras, it would be most desirable to utilize this station for the reception of the troops and followers, which could thus be brought down to the beach, and despatched direct on board-ship, under which arrangement the necessity of a camp for reception of troops on arrival at Madras would be obviated.

4. Under this arrangement one platform of the terminus should be reserved for the reception of troops, and it is thus a question, to which the attention of Government is invited, whether it would not be essential to arrange for the utilization of the Railway terminus, and at the same time to rebuild the granary as proposed by the Committee (which are the two alternative plans brought forward), it being the opinion of the Commander-in-Chief that, in the event of an expedition being despatched from Madras, the necessary accommodation would not be found unless both buildings were utilized.

5. The Commander-in-Chief concurs in the remarks of the Committee as regards the establishments necessary to be maintained at the ports of embarkation and debarkation which seem to be of sufficient strength to meet all requirements.

6. Sir Frederick Roberts remarks that in Madras the Marine department has hitherto done the work of landing and shipping stores, and with reference to Colonel Chesney's letter, No. 265-S.D., dated 8th May 1883, and the observations contained therein, His Excellency would beg leave to suggest, in the event of the proposed system being brought into force, that a Marine officer might always be associated with the Chief Commissariat officer charged with the despatch of stores from Madras, to aid him in providing the required number of boats.

Proceedings of Madras Government, No. 6156, dated 14th November 1883.

7. I am to request that a spare printed copy of the Proceedings of the Committee (now returned) may be furnished to this office, if available, for record.

No. 188. No. 4012.

Forwarded to the Public Works Department, in view to the submission of an approximate estimate of the cost of the proposed work at the Commissariat granary at Madras, and to the Madras Railway Company being asked to what extent and on what terms their terminal buildings at Ráyapuram could be made temporarily available for the accommodation of troops and storage of stores if ever required by Government.

(By Order.)

OOTACAMUND, (Signed) A. KENNEY-HERBERT, Lt.-Col.,
16th August 1884. *Offg. Secretary to Government.*

No. 189. *From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department; dated Chepauk, 6th October* 1884, *No.* 2583.

With reference to G.O., No. 516-E., dated 20th August 1884, I have the honor to report that the approximate cost of rebuilding the sea-face of the granary and constructing an upper storey in accordance with the recommendations of the Committee, is Rs. 34,000.

From A. M. SAUNDERS, Esq., Agent and Manager, Madras Railway Company, to Lieutenant-Colonel C. J. SMITH, R.E., Consulting Engineer for Railways, dated Madras, 18th September 1884, No. 641.

I have the honor to acknowledge the receipt of No. 566, dated the 26th ultimo, and have considered the question of the proposition made by the Commissariat Committee which lately met and proposed that the Ráyapuram terminus should be temporarily placed at the disposal of the Military authorities in the event of the equipment of an expedition by sea being necessitated, and have obtained the views of some of the heads of departments.

2. It appears, however, to be a subject which could not be decided quite off-hand, and further inquiries on the matter appear to me to be necessary before a definite reply could be forwarded.

3. If Colonel Hawkes, the President of the Committee, could be permitted to be present at the next Officers' meeting, which will be held in my office on the 2nd proximo at 12-30 P.M., it would be a great advantage to us to be able to get some information which we require and which the President of the Committee could doubtless afford us verbally; I would then be in a position to answer this question shortly after the Officers' meeting.

From A. M. SAUNDERS, Esq., Agent and Manager, Madras Railway Company, to Lieutenant Colonel C. J. SMITH, R.E., Consulting Engineer for Railways; dated Madras, 6th October 1884, No. 681.

In continuation of my letter, No. 641, dated the 18th ultimo, I have the honor to inform you that Colonel Hawkes was good enough to attend a meeting of the officers of this Company held in my office on Thursday, the 2nd instant.

2. Colonel Hawkes kindly afforded us information on various points connected with the proposal that the Ráyapuram terminus should be handed over to the Commissariat department, as a temporary measure, in the event of an expedition by sea having to be despatched from Madras.

3 Taking into consideration the difficulty alleged in providing other suitable accommodation in Madras, and with a view to fall in with the wishes expressed by the Military authorities, we are unanimously of opinion that, provided sufficient notice, say a month, be given, the platforms of Ráyapuram passenger station (exclusive of the offices) and the approach roads, both on the north side as well as on the south side of this building, might be handed over to the Commissariat department.

4. In the event of the station being required, it will be necessary to provide for the ordinary passenger traffic leaving Ráyapuram terminus daily, and we propose therefore to erect a temporary booking office and platform on an economical scale, in a convenient position, in our Engineer's yard, the cost of the construction of these temporary requirements being defrayed by the Commissariat department, as well as any damage to the main building which might take place during its occupancy.

5. We further propose that a rent of Rs. 100 per diem should be levied from the time of occupation until the station premises were handed over to our use again.

6. If the Government will notify its approval of the terms and conditions named, I feel no doubt that the Board of Directors will confirm the proposition herewith made.

No. ——.

Transferred to the Secretary to Government, Public Works Department, with reference to Order, No. 516-E., dated 20th August 1884.

OOTACAMUND, (Signed) C. J. SMITH, Lieut.-Col., R.E.,
9th October 1884. *Consulting Engineer for Railways.*

To the Secretary to Government, Public Works Department.

No. 757-E.

Transferred to the Military Department, with reference to the endorsement in that department, No. 4012, dated 16th August 1884, the enclosures of which are herewith returned.

OOTACAMUND, (Signed) J. SHAW-STEWART, Colonel, R.E.,
13th October 1884. *Secretary to Government, P.W.D.*

To the Military Department, with 7 original enclosures.

No. 190. *To the Secretary to the Government of India, Military Department; dated 31st October* 1884, *No.* 5315.

No. 191. *From Colonel G. CHESNEY, Secretary to the Government of India, Military Department, to Lieutenant-Colonel A. KENNEY-HERBERT, Officiating Secretary to the Government of Madras, Military Department; dated Fort William, the 5th December* 1884, *No. 700-D.*

Commissariat Department

I am directed to acknowledge the receipt of your letter,* No. 5315, of the 31st October 1884, forwarding the Proceedings of a Committee assembled to report what special arrangements are needed at Madras to enable the Commissariat to ship stores of all departments for troops proceeding thence on field service by sea; and soliciting sanction to the scales of establishments and pay at the ports of embarkation and debarkation proposed in para. 20 of the Committee report, and to the following proposals :—

(1) That the present Commissariat storage rooms on the North Beach, known as the granary, be converted into a two-storeyed building for the accommodation of stores at a cost of Rs. 34,000; and

(2) That the Madras Railway Company's Ráyapuram passenger station be hired for the temporary use of troops detailed for service and the reception of stores which cannot be accommodated in the granary, on the following terms :—

(*a*) Rent at Rs. 100 per diem.

(*b*) Payment of the cost of constructing a temporary booking office and platform.

(*c*) The repair of any damage to the main building during its occupancy.

2. In reply, I am to state, for the information of His Excellency the Governor in Council, that as the port of Madras is one from which an expedition would rarely have to be embarked, it appears to the Government of India to be unnecessary to expend Rs. 34,000 for rebuilding or extending the granary for the purpose set forth, more especially as temporary buildings could be speedily run up on an emergency, or the premises of the Railway Company hired as proposed.

3. The proposed scale of establishment to be entertained at the ports of embarkation and debarkation on the occasion of an expedition being organized, is, however, sanctioned.

No. 192. ORDER THEREON, 16th December 1884, No. 6251.

The foregoing letter from the Government of India communicated to His Excellency the Commander-in-Chief and departments concerned.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Lt.-Col.,
Offg. Secretary to Government.

To the Quarter Master General.
,, Adjutant-General.
,, Inspector-General of Ordnance.
,, Commissary-General.
,, Superintendent, Army Clothing.
,, Controller of Military Accounts.
,, Marine Department.
,, Public Works Department.

Exd. E. C. Shunker.

---

* Original enclosures returned as requested.

No. 3142 W. d/ 20th Dec. 1884

P.W.D.

Govt. of (1884) Madras.

MILITARY.

To
The QUARTER MASTER GENERAL,
&c., &c., &c.

Communicated to the Cons. Engineer for Railways and the Supty. Engineer V Circle for information.

(True Extract)

(Sd.) C. Bowen
Major R.E.
Under Secy. to Govt. P.W.D.

Dated December, 16th.

Issued

Recd. *Encl.*

G.O., 16th December 1884, No. 6251.

B. No. 3142 W. d/ 20 Dec.

DECEMBER.
Nos. 179—192.

Commissariat Department.

Arrangements proposed to be made at Madras to enable the Commissariat to ship stores of all departments for troops proceeding thence on field service by sea, sanctioned by the Government of India with an exception.

To
The Cons. Engineer for Rys.
" S.E. V Circle

With order

Appendix to G.O., No. 2445 W., dated 20th October 1885.

BUILDINGS AND ROADS.

SCHEDULE of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87.

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.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for troops—Buildings for European troops in the plains—Permanent.	Chingleput.	St. Thomas' Mount.	1	New barracks for Royal Artillery.	A	27,073	..	..	..	..	..	..	..	..	..	Estimate of Rs. 1,46,910 was sanctioned in G.O., No. 1274 W., dated 2nd June 1885. Item No.1, class A works, budget of 1885-86.
	Do. ..	Do. ..	2	Constructing six blocks of stables for two field batteries of Royal Artillery.	A	1,000	..	..	..	..	..	..	..	..	..	Estimate of Rs. 20,160 was sanctioned in G.O., No. 2747 W., dated 1st October 1883. Item No. 2, class B works, budget of 1885-86.
	West Coast.	Malápuram.	3	Constructing a barracks for a detachment of British Infantry to accommodate 100 men.	A	19,235	..	..	..	..	..	..	..	..	..	Estimate of Rs. 1,34,214 was sanctioned in G.O., No. 1652 W., dated 15th July 1885. Item No. 2, class A works, budget of 1885-86.
	Presidency.	Fort St. George.	4	Converting a racket court into a covered gymnasium.	A	9,890	..	..	..	..	..	..	..	..	..	Estimate of Rs. 11,890 sanctioned in G.O., No. 1552 W., dated 20th June 1884. Item No. 1, class B works, budget of 1885-86.
	Do. ..	Bangalore..	5	Additions to the Military Prison.	B	..	8,325	..	..	..	..	..	..	..	..	Estimate of Rs. 8,325 was sanctioned in G.O., No. 938 W., dated 5th April 1884. Item No. 3, class B works, budget of 1885-86.
	Bellary ..	Bellary ..	6	Improving the system of water-supply to British Infantry barracks.	B	..	5,350	..	..	..	..	..	..	..	..	Estimate awaited.
	Nílgiri ..	Wellington.	7	Hospital accommodation for women and children.	B	..	3,036	..	..	..	..	..	..	..	..	Estimate of Rs. 3,036 was sanctioned in G.O., No. 1573 W., dated 6th July 1885. Item No. 15, class C works, budget of 1885-86.
	Presidency.	Fort St. George.	8	Improving water-supply.	B	..	6,445	..	..	..	..	..	..	..	..	Estimate of Rs. 6,445 was sanctioned in G.O., No. 2454 W., dated 20th October 1885.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87—*cont.*

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.	
European troops in the plains—Permanent—*cont.*	Bellary ..	Bellary ..	9	Reconstructing double Apothecaries' quarters, station hospital.	B	..	6,222	..	..	..	..	..	..	..	..	Estimate of Rs. 6,222 was sanctioned in G.O., No. 1806 W., dated 3rd August 1885.
	Chingleput.	St. Thomas' Mount.	10	Constructing a coffee-shop with kitchen for the upper story barracks.	B	..	6,690	..	..	..	..	..	..	..	..	Estimate of Rs. 6,690 was sanctioned in G.O., No. 1390 W., dated 15th June 1885.
	Presidency.	Fort St. George.	11	Drainage of fort and barracks.	C	..	10,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	12	Washhouse outside the barracks.	C	..	2,500	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	13	Garrison bazaars to be done away with and new cook-houses built.	C	..	4,500	..	..	..	..	..	..	..	..	Do.
	Chingleput.	St. Thomas' Mount.	14	A wheeler and collar makers' shop for the new Artillery barracks.	C	..	5,660	..	..	..	..	..	..	..	..	Estimate of Rs. 5,660 was sanctioned in G.O., No. 2717 W., dated 3rd November 1884. Item No. 6, class C works, budget of 1885-86.
	Do. ..	Do. ..	15	Raising the roof of harness room, Troop lines.	C	..	4,200	..	..	..	..	..	..	..	..	Estimate of Rs. 4,200 sanctioned in G.O., No. 3137 W., dated 17th December 1881.
	Do. ..	Pallâvaram.	16	Mortuary rooms for hospitals.	C	..	3,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Poonamallee.	17	Lightning conductors to the hospital.	C	..	3,000	..	..	..	..	..	..	..	..	Do.
	Presidency.	Bangalore.	18	School master and mistress' quarters, Royal Artillery.	C	..	6,200	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	19	Quarters for the senior Apothecary, north station hospital.	C	..	5,300	..	..	..	..	..	..	..	..	Estimate of Rs. 5,300 was sanctioned in G.O., No. 3385 W., dated 27th November 1883. Item No. 20, class C works, budget of 1885-86.
	Do. ..	Do. ..	20	Quarters for the Assistant Apothecary, north station hospital.	C	..	4,773	..	..	..	..	..	..	..	..	Estimate of Rs. 4,773 was sanctioned in G.O., No. 938 W., dated 5th April 1884. Item No. 21, class C works, budget of 1885-86.
	Nilgiri ..	Wellington.	21	Gymnasium	C	..	21,835	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	22	Drinking water to be laid on to hospital.	C	..	4,690	..	..	..	..	..	..	..	..	Do.

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.
Accommodation for troops—Buildings for	Do. ..	Do. ..	23	Constructing quarters with out-houses for a Barrack Sergeant.	C	..	7,348	..	..	..	..	..	..	..	..	Estimate of Rs. 7,348 was sanctioned in G.O., No. 1941 W., dated 21st August 1885.
	Bellary ..	Bellary ..	24	Alterations to prisons and adjoining buildings.	C	..	11,260	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	25	New gun-shed with collar-makers' and wheelers' shop for the Royal Artillery.	C	..	5,663	..	..	..	..	..	..	..	..	Estimate of Rs. 5,663 was sanctioned in G.O., No. 914 W., dated 3rd April 1884. Item No. 13, class C works, budget of 1885-86.
	Do. ..	Do. ..	26	Swimming-bath, British Infantry.	C	..	7,644	..	..	..	..	..	..	..	..	Estimate of Rs. 7,644 was sanctioned in G.O., No. 2434 W, dated 19th October 1885.
	Do. ..	Do. ..	27	Infectious disease ward, station hospital.	C	..	6,140	..	..	..	..	..	..	..	..	Estimate of Rs. 6,140 sanctioned in G.O., No. 330 W., dated 7th February 1884.
	West Coast.	Cannanore.	28	Plunge-bath for British Infantry.	C	..	4,640	..	..	..	..	..	..	..	..	Estimate of Rs. 4,640 was sanctioned in G.O., No. 418, dated 16th Feb. 1876. Item No. 18, class C works, budget of 1885-86.
	Do ..	Do. ..	29	Improving latrines for the British Infantry.	C	..	2,780	..	..	..	..	..	..	..	..	Estimate of Rs. 2,780 was sanctioned in G.O., No. 1656, dated 4th April 1879. Item No. 19, class C works, budget of 1885-86.
Accommodation for troops—Buildings for Native troops.	Presidency.	Bangalore.	30	Public buildings for a regiment of Native Cavalry.	A	17,730	..	..	..	..	..	..	..	..	..	Estimate of Rs. 23,490 was sanctioned in G.O., No. 1552 W., dated 20th June 1884. Item No. 4, class B works, budget of 1885-86.
	Trichinopoly.	Trichinopoly.	31	Public buildings for two regiments of Native Infantry.	A	19,541	..	..	..	..	..	..	..	..	..	Estimate of Rs. 35,650 was sanctioned in G.O., No. 2194 W., dated 5th September 1884. Item No. 3, class A works, budget of 1885-86.
	Presidency.	Bangalore ..	32	Store-rooms and workshops for the Pioneer Regiment.	B	..	3,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	West Coast.	Quilon ..	33	Constructing a regimental store-shed.	B	..	9,334	..	..	..	..	..	..	..	..	Estimate of Rs. 9,334 was sanctioned in G.O., No. 1556 W., dated 3rd July 1885. Item No. 32, class C works, budget of 1885-86.
	Presidency.	Bangalore ..	34	Public buildings for one regiment of Native Infantry.	B	..	21,636	..	..	..	..	..	..	..	..	Estimate of Rs. 21,636 sanctioned in G.O., No. 2952 W., dated 29th November 1884.
	Chingleput.	Pallâvaram.	35	Magazine for a Native Infantry Regiment.	C	..	4,500	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Madras (Râyapuram).	36	Flushing drains for Native Infantry lines.	C	..	4,300	..	..	..	..	..	..	..	..	Estimate of Rs. 4,300 sanctioned in G.O., No. 1397 W., dated 4th June 1884.
	Vizagapatam.	Vizianagrum.	37	Regimental store-room for Native Infantry.	C	..	3,480	..	..	..	..	..	..	..	..	Estimate of Rs. 3,480 was sanctioned in G.O., No. 2628 W., dated 27th October 1884. Item No. 23, class C works, budget of 1885-86.

Schedule of the probable requirements of the Madras Presidency on account of Imperial Military Works for 1886-87—*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.								
						RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Accommodation for troops — Buildings for Native troops—*cont.*	Bellary ..	Bellary ..	38	School-house for a regiment, Native Infantry.	C	..	3,030	..	..	..	..	..	..	..	..	Estimate of Rs. 3,030 was sanctioned in G.O., No. 149 W., dated 17th January 1884. Item No. 31, class C works, budget of 1885-86.
Ordnance works.	Presidency.	Fort St. George.	39	Armament of Fort St. George.	A	2,964	..	..	..	..	..	..	..	..	..	Estimate of Rs. 42,035 sanctioned in G.O., No. 2970 W., dated 19th October 1883. Item No. 4, class A works, budget of 1885-86.
	Do. ..	Madras ..	40	Alterations in the coast batteries.	A	6,025	..	..	..	..	..	..	..	..	..	Estimate of Rs. 14,265 sanctioned in G.O., No. 2126 W., dated 11th September 1885.
	Chingleput.	St. Thomas' Mount.	41	Alterations to racks in the Ordnance Magazine.	B	..	2,505	..	..	..	..	..	..	..	..	Estimate of Rs. 2,505 sanctioned in G.O., No. 2416 W., dated 15th October 1885.
	Presidency.	Madras ..	42	Wall round the Gunpowder Factory.	B	..	10,000	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	43	New wheeler shop, Gun Carriage Factory.	B	..	7,370	..	..	..	..	..	..	..	..	Estimate of Rs. 7,370 sanctioned in G.O., No. 2870 W., dated 17th November 1884. Item No. 36, class C works, budget of 1885-86.
	Do. ..	Bangalore.	44	Ordnance Depôt buildings, entrenchment, Bangalore.	B	..	4,823	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Madras ..	45	Extra accommodation as store-room in the Gun Carriage Factory.	C	..	6,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	46	Improvements to the barrel-machine shop of the Gun Carriage Factory.	C	..	2,061	..	..	..	..	..	..	..	..	Estimate of Rs. 4,030 sanctioned in G.O., No. 2413 W., dated 16th September 1882.
	Nilgiri ..	Wellington.	47	Bakery	A	414	..	..	..	..	..	..	..	..	..	Estimate of Rs. 32,000, sanctioned in G.O., No. 1838 W., dated 29th July 1884.
Commissariat buildings.	Presidency.	Madras ..	48	Constructing a shed in the Camp Equipage Depôt.	C	..	5,300	..	..	..	..	..	..	..	..	Estimate is awaited.
	Do. ..	Do. ..	49	Lines for transport attendants.	C	..	48,000	..	..	..	..	..	..	..	..	Do.
	Do. ..	Do. ..	50	Workshops and sheds for carts, doolies, &c., Transport Department.	C	..	5,500	..	..	..	..	..	..	..	..	Do.
	Chingleput.	Guindy ..	51	Converting the late Superintending Engineer's office at Guindy into a slaughter-house.	C	..	11,800	..	..	..	..	..	..	..	..	Estimate of Rs. 11,800 sanctioned in G.O , No. 1399 W., dated 12th May 1883. Item No. 43, class C works, budget of 1885-86.
	Do. ..	Do. ..	52	Quarters for a station butcher.	C	..	4,740	..	..	..	..	..	..	..	..	Estimate is awaited.
	Presidency.	Bangalore.	53	Quarters for a Conductor, Transport Department.	C	..	4,220	..	..	..	..	..	..	..	..	Do.
Fortifications.	Presidency.	Bangalore.	54	Fortified post at Agram.	A	5,000	..	..	..	..	..	..	..	..	..	Estimate of Rs. 37,300 sanctioned in G.O., No. 1250 W., dated 29th May 1885. Further estimates are said to be under preparation.
	North Arcot.	Vellore ..	55	Drawbridge and gate for the Fort at Vellore.	B	..	6,450	..	..	..	..	..	..	..	..	Estimate of Rs. 6,450 sanctioned in G.O., No. 528 W., dated 7th March 1885.
				Total ..	..	1,08,872	3,25,250	4,34,122	1,00,000	5,34,122	3,50,000	2,03,348	8,840	..	10,96,310	

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 1886-87.

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
Eastern district.			RS.	
	Fort St. George	Store-room, forge workshop—Arsenal.	520	When funds are available.
	Do. ...	Railings to miscellaneous workshop, &c.—Arsenal.	790	
	Do. ...	A new bridge across trench in new park—Arsenal.	810	
	Do. ...	Improving store godowns—Arsenal.	700	Very necessary. Estimates already sanctioned by Government.
	Do. ...	Improving store godowns—Arsenal.	847	
	Do. ...	Alterations to lower story barracks for armourer shop.	2,367	Very desirable.
	Do. ...	Mess-house verandah—Completion of.	1,900	
	Do. ..	I. Room alterations for theatre.	1,000	When funds are available.
	Madras ...	Ordnance store-room—Beach ...	1,250	Necessary.
	Do. ...	Huts, infectious disease—Station hospital.	750	When funds are available.
	Do. ...	Dispensary—Veterinary Department, Body Guard.	1,300	
	Do. ...	Regimental school—Perambúr lines, Madras Infantry.	1,375	
	Do. ...	Armourer shops — Perambúr lines, Madras Infantry.	2,000	
		Commissariat Department.		
	Madras ...	Godown, wheat, &c.	1,785	When funds are available.
	Do. ...	Drainage—Bakery premises ...	950	
	Do. ...	Gram-boiling shed—Mule lines.	1,500	
	St. Thomas' Mount.	Commissariat—Well, &c., Public Cattle Depôt.	1,200	
	Do. ...	Royal Artillery—Lightning-conductor magazine.	1,500	Most important.
	Do. ...	Line houses—Horse lines ...	1,542	Very necessary. Estimate before Government.
	Do. ...	Closing up archway, gun-shed—P Battery, 1st Brigade.	560	Very necessary.
	Do. ...	Reconstruction latrines, family quarters — Q Battery, 1st Brigade.	...	In progress during the current official year. Item No. 25 of Appendix B to G.O., No. 1563 W., dated 6th July 1885.
	Do. ...	Improvements to Sergeant's quarters—Reserve Powder Magazine.	530	*Vide* G.O., No. 1233 W., dated 28th May 1885. Very necessary.
	Pallávaram ...	Armourer shop—Madras Infantry.	820	When funds are available.
	Do. ...	Camp Equipage store—Madras Infantry.	1,500	
	Do. ...	School—Madras Infantry ...	1,230	
	Poonamallee...	Alteration—Barracks	1,000	
	Do. ...	Wall, new—Family quarters ...	1,000	
	Vellore ...	School-house—Madras Infantry.	2,150	Very necessary. Already sanctioned by Government.
	Vizianagrum.	New magazine— do. ...	1,530	Very necessary.
	Do. ...	Armourers' workshops—Madras Infantry.	900	Do.

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

Division or district.	Station.	Description of buildings, &c., and for what corps, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
Eastern district —*cont.*		*Commissariat Department*—cont.	RS.	
	Vizianagrum.	Improvements to hospital—Madras Infantry.	515	When funds are available.
	Do. ...	Improvements to ventilation—Madras Infantry.	545	
	Berhampore ..	School-house	1,390	Should not be postponed any longer; funds allotted in current year were withdrawn.
Bangalore division.	Bangalore ...	Royal Artillery—Latrine, Staff Sergeant's quarters, Royal Horse Artillery.	2,100	Very necessary on sanitary grounds.
	Do. ...	Quarters, Battery — Quartermaster Sergeant, Royal Horse Artillery.	1,100	Desirable.
	Do. ...	Cook-house—Sergeants' mess, Field Batteries.	1,470	Necessary.
	Do. ...	Latrine for men—Stables, Field Batteries.	620	
	Do. ...	Board floor recreation room—Royal Horse Artillery.	1,240	
	Do. ...	Stone floor to gun-shed, &c. ...	1,160	
		British Cavalry.		
	Bangalore ...	Stone drains—Staff Sergeant's quarters.	564	Necessary. Estimates already sanctioned by Government.
	Do. ...	Two Riding schools	1,156	
	Do. ...	Latrine—Six seats for men at stables.	600	Very desirable.
	Do. ...	Camp Equipage stores—Connecting with water-supply.	1,170	When funds are available.
		British Infantry.		
	Bangalore ...	Latrine for followers	1,600	Necessary.
	Do. ...	South station hospital—Quarters for men of Army hospital, Native corps.	924	
	Do. ...	North station hospital—Quarters for men of Army hospital, Native corps.	756	
		Native Infantry west lines.		
	Bangalore ...	Improving place of arms and hospital.	700	
		Commissariat Department.		
	Bangalore ...	Improving Staff Sergeant's 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.
		Transport Department.		
	Bangalore ...	Additions to accommodation in Transport lines.	1,545	Urgently required.
	Do. ...	Converting Sergeant's quarters into Sub-Conductor's quarters.	1,000	Very necessary.
	Wellington ...	Renewing floors of latrines and school-block.	1,680	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, departments needed.	Approximate estimate of cost.	Remarks by the Commander-in-Chief.
			RS.	
Bangalore division—*cont.*	Wellington ...	Water-supply to bath-rooms, hospital.	600	Desirable. Estimate before Government.
	Do. ...	Bath-rooms for Pay Sergeant ..	2,350	Very necessary.
	Do. ...	Flooring passages from married quarters to latrine.	1,000	
	Do. ...	Enlarging purveyor's stores ..	2,000	
	Do. ...	Cooking stoves for Staff Sergeant's quarters.	600	
	Pódanúr ...	Repairs to the rest-house buildings.	850	
Ceded districts.	Bellary ...	Alterations and additions to Armourers' shop—Light Cavalry Regiment.	700	Urgently wanted. The execution of this work will do away with necessity for new building.
	Do. ...	Renewal floor No. II Magazine, Fort.	616	Very necessary.
	Do. ...	Reflooring Commissariat store-rooms with asphalte.	670	
Western district.		*European Infantry.*		
	Cannanore ...	Station hospital—Sinking well.	700	Strongly recommended.
	Malápuram ...	Converting beer godown into a gymnasium for detachment.	790	All very necessary.
	Do. ...	Converting recreation room into cook-house.	514	
	Do. ...	Converting wood godown into a bakery.	595	
	Do. ...	Providing a platform and pump to well.	1,110	
	Calicut ...	New slaughter-house	2,020	All urgent works.
	Do. ...	Converting cook-room into a bakery.	840	
	Do. ...	Converting family quarters into Commissariat Sergeant's quarters.	650	
	Quilon ...	A new magazine—Madras Infantry.	2,380	Very much wanted.
	Do. ...	Renewing floor of hospital ...	1,970	Desirable.
	Do. ...	An Armourer shop—Madras Infantry.	1,700	When funds are available.
	Mangalore ...	Reflooring hospital—Madras Infantry.	695	
	Do. ...	Additions to Armourers' workshop.	790	
	.....	Lump sum provision for works costing below Rs. 500 each.	14,794	
		Total ...	1,00,000	

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

20th October 1885, No. 2445 W., Public Works.

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, 7th October 1885, No. 3351 A.

I have the honor to forward herewith schedules of requirements in Military Works, Major and Minor, in view to provision being made to such extent as is possible for them in the Public Works Department budget for 1886-87.

2. The major works have been classified as noted below, the works in class B being entered in order of their urgency, while those in class C are grouped according to commands :—

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

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

Class C.—Works of less urgency, but for which provision should be made as funds are available.

3. The following remarks, regarding works in class B, are submitted for the special consideration of Government :—

(1) Gymnasium, British Infantry, Fort St. George.
(2) Addition to Military Prison, Bangalore.

I. The urgency of items Nos. 1 and 2 has been passed upon Government for two years past, and it was only the special demand for retrenchment in the current year that has interfered with their execution.

(3) Drawbridge, &c., Fort, Vellore.

II. Item No. 3 is a defence work the necessity of which was urged by Sir F. Roberts, with whom the Provincial Commander-in-Chief fully concurs in opinion. It would have been carried out in current year had it not been for the restrictive orders mentioned in the previous paragraph.

(4) Improving water-supply, British Infantry Barracks, Bellary.
(5) Store-room and workshop, Pioneer, Bangalore.
(8) Accommodation one Madras Infantry Regiment, Bangalore.
(9) Accommodation for women, in hospital, Wellington.
(14) Coffee-shops, Royal Artillery, St. Thomas' Mount.

III. The urgency of items Nos. 4, 5, 8, 9 and 14 was mentioned to Government last year, and General Rowlands hopes that funds for them will be found in the next budget.

(6) New store-room, Madras Infantry, Quilon.

IV. Item No. 6 is one which must be provided for, as the existing store-room is in a very bad state.

(7) Alterations to racks in magazine, St. Thomas' Mount.

V. Item No. 7 is a new work the necessity for which has just arisen in connection with providing properly for storage of powder near Madras, the Veysarpady magazine having been condemned. By the proposed alterations in the magazine at St. Thomas' Mount, it will be possible to store 2,044 additional barrels of powder there. This work should therefore not be delayed.

(10) Improving water-supply, Fort St. George.

VI. Item No. 10 is a work connected with the use of the Fort as a place of defence, and should be provided for, as until it is carried out the garrison of the Fort cannot depend on a supply of good water being stored for its use in time of need.

(11) Wall round Gunpowder Factory, Madras.

VII. Item No. 11 is a work which has been sanctioned by the Government of India, and though it is not yet decided whether it shall be carried out or whether an entrenchment shall take its place, it would be as well that funds should be provided for it in the coming year.

(12) New wheel-shop, Gun Carriage Factory.

VIII. Item No. 12 is a work the necessity for which has been brought forward for several years by the Ordnance Department and should not be delayed.

(13) Reconstruction Apothecaries' quarters, station hospital, Bellary.

IX. The old quarters having been dismantled as they were found to be unsafe, the work of their reconstruction, item No. 13, should be carried out as soon as possible, for it is very essential that medical subordinates should live near their work.

(15) Additional buildings, Ordnance Depôt entrenchment, Bangalore.

X. It is not yet quite decided whether an Ordnance Depôt is to be maintained in the entrenchment at Bangalore or not; but as the buildings would have to be provided at once, if the depôt is to be maintained, item No. 15 is included in the list of works of special urgency.

4. The length of the schedule of minor works speaks for itself and will confirm the remarks made in this office letter, No. 2863 A., of 4th ultimo, on the subject of these works, it being noted, moreover, that in this schedule the numerous works costing under Rs. 500 are not included.

5. This fact reminds the Provincial Commander-in-Chief of the necessity for asking that in future years Government will be good enough to provide a sufficiently large grant for these minor works costing Rs. 500 and under, to enable allotments to be made not only to general officers commanding divisions and districts, but to the Commissary-General and Inspector-General of Ordnance, so that those officers may be in a position to arrange for execution of works of this nature in their respective departments without trenching on the allotments of general officers commanding.

CLASS A.

WORKS commenced, for completion of which grants are required.

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Eastern district.	Fort St. George.	1	Armament—Mounting, &c.	42,000	Amounts of estimates are given, the amounts required in next year for completing the works not being known in this office.
		2	Beach batteries completing	14,265	
	St. Thomas' Mount.	3	Barracks, Royal Artillery, new.	1,27,750	
		4	Stabling, Royal Artillery, new.	20,160	
Bangalore division.	Bangalore.	5	Agram entrenchment works.	20,490	
		6	Accommodation—Public buildings, Native Cavalry.	29,600	
	Wellington.	7	Bakery—new	32,000	
	Trichinopoly.	8	Accommodation—Public buildings two Madras Infantry Regiments.	21,140	
Western district.	Malápuram...	9	Barracks—new ...	1,34,214	

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

CLASS B.

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

Command.	Station.	Item No.	Work.	Cost.	Remarks.
				RS.	
Eastern district.	Fort St. George.	1	Gymnasium—British Infantry.	11,570	Estimates already sanctioned by Government.
Bangalore division.	Bangalore...	2	Additions—Military Prison.	8,325	
Eastern district.	Vellore ...	3	Drawbridge, &c.—Fort.	6,450	
Ceded districts.	Bellary ...	4	Improving system of water-supply — British Infantry barracks.	5,350	Estimate prepared.
Bangalore division.	Bangalore...	5	Store-rooms and workshops—Pioneers.	3,000	
Western district.	Quilon ...	6	New store-room—Madras Infantry.	9,334	Estimate already sanctioned by Government.
Eastern district.	St. Thomas' Mount.	7	Alterations to racks in the Ordnance Magazine.	2,505	Estimate now before Government.
Bangalore division.	Bangalore...	8	Accommodation — Public buildings one Madras Infantry Regiment.	14,610	Estimates already sanctioned by Government.
	Wellington.	9	Hospital accommodation —Women and children.	3,036	
Eastern district.	Fort St. George.	10	Improving water-supply.	6,445	Estimate now before Government.
	Madras ...	11	Wall round Gunpowder Factory.	10,000	Work sanctioned but estimate not yet submitted.
		12	New wheeler shop—Gun Carriage Factory.	7,350	Estimates already sanctioned by Government.
Ceded districts.	Bellary ...	13	Reconstructing double Apothecaries' quarters —Station hospital.	6,222	
Eastern district.	St. Thomas' Mount.	14	Coffee-shops—Field Battery, upper story barracks Royal Artillery.	6,690	
Bangalore division.	Bangalore...	15	Ordnance Depôt buildings, entrenchment—Bangalore.	4,823	Estimate prepared but held in abeyance pending decision of Government regarding maintenance of Ordnance Depôt at Bangalore.

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

CLASS C.

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

Command.	Station.	Work.	Cost.	Remarks.
			RS.	
Eastern district.	Fort St. George.	Drainage—Fort barracks ...	10,000	
		Washhouse outside barracks ...	2,500	
		Garrison bazaar to be done away with and new cook-houses built.	4,500	

List of works of less urgency not yet commenced, &c.—*cont.*

Command.	Station.	Work.	Cost.	Remarks.
			RS.	
Eastern district—*cont.*	St. Thomas' Mount.	Wheeler and Collar makers' shop, new—Royal Artillery barracks.	5,660	Estimates already sanctioned by Government.
		Raising roof, &c., harness-room—Troop lines.	4,200	
	Pallávaram.	Mortuary rooms—Hospitals ...	3,000	
		Magazine—Native Infantry Regiment.	4,500	
	Poonamallee.	Lightning conductors to hospital.	3,000	Estimate before Government.
	Madras ...	Flushing drains — Ráyapuram, Madras Infantry lines.	4,300	
		Extra store-room in Gun Carriage Factory.	6,000	
		Improving Barrel-machine shop—Gun Carriage Factory.	4,030	Estimate already sanctioned by Government.
		Shed for tent manufacture in Camp Equipage Depôt.	5,300	
		Lines for transport attendants ...	48,000	
		Workshops and sheds for carts, doolies, &c.—Transport Department.	5,500	
		Converting Superintending Engineer's office, Guindy, into slaughter house.	11,800	
		Quarters for station butcher ...	4,740	
	Vizianagrum.	Regimental store-room—Madras Infantry.	3,480	
Bangalore division.	Bangalore.	School master and mistress' quarters—Royal Artillery.	6,200	
		Quarters—Senior Apothecary, north station hospital.	5,300	Estimates already sanctioned by Government.
		Quarters—Assistant do. ...	4,773	
		Do. Conductor, Transport Department.	4,220	
	Wellington	Gymnasium	21,835	
		Drinking water to be laid on to hospital.	4,690	Estimate before Government.
		Quarters for a Barrack Sergeant.	7,348	Estimate already sanctioned.
Ceded districts.	Bellary ...	Alterations to prisons and adjoining buildings.	11,260	
		New gun-shed with Collar-makers' and Wheelers' shop for Royal Artillery.	5,663	Estimate already sanctioned by Government.
		Swimming-bath—British Infantry.	7,644	Estimate before Government.
		School-house for a regiment—Madras Infantry.	3,030	
		Infectious disease ward—Station hospital.	6,140	
Western district.	Cannanore	Plunge-bath—British Infantry ...	4,690	Estimates already sanctioned.
		Improvement, latrines—British Infantry.	2,780	

OOTACAMUND,
7th October 1885.

(Signed) R. C. STEWART, Brigadier-General,
Quartermaster-General.

Office note from the Examiner of Public Works Accounts, dated 14th October 1885, No. 565.

ORDER—dated 20th October 1885, No. 2445 W., Public Works.

Ordered that the schedules of military requirements on account of the Public Works Department in the Madras Presidency for 1886-87 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 plans and estimates being prepared and submitted at an early date for the unsanctioned works included in the lists.

(Here enter No. 2446 W., dated 20th October 1885.)

(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. J. Henricus.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated October, 20th.

Recd. *Encl.*

G.O., 20th Oct. 1885, No. 2445 W.

OCTOBER.

Schedules of Military requirements for 1886-87

Orders on —.

20th October 1885, No. 2446 W., Public Works.

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 marginally-noted Proceedings of this Government, with schedules of demands on account of military works for 1886-87, I am directed to solicit the special attention of the Government of India to paragraphs 3 and 4 of the Quartermaster-General's letter No. 2863 A, dated 4th September 1885, printed in Proceedings, No. 2137 W., dated 14th September 1885, conveying the strong recommendation of His Excellency the Commander-in-Chief for a specially liberal grant under this service, so that many important works now held in abeyance for want of funds may be undertaken in the ensuing year.

G.O., No. 2137 W., dated 14th September 1885.
G.O., No. 2445 W., dated 20th October 1885.

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,
20th October 1885.

Exd. J. Henricus.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated October, 20th.

Recd. *Encl.*

20th October 1885, No. 2446 W.

OCTOBER.

Schedules of Military requirements for 1886-87

Forwarding —.

14th August 1885, No. 1877 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 28th May 1885, No. 1197 B :—

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 have been countersigned :—

I. Estimate, amounting to Rs. 2,300, for remodelling the fronts, &c., of the three coast batteries at Madras, in accordance with G.O., dated 1st April 1885, No. 1786.
II. Plan.
III. Report, dated 21st April 1885, by the Executive Engineer, Presidency division.

2. His Excellency is of opinion that the work is of a very urgent nature, and desires me to express a hope that Government will see fit to issue the necessary orders in view to its being taken in hand as soon as possible.

3. The Commander-in-Chief understands that the thickness of earthwork in front of the Napier and Lighthouse batteries is 38 feet, which is so near that laid down by the Inspector-General of Fortifications in his memorandum, dated 6th December 1884, that His Excellency does not see the necessity for further increasing its thickness in the case of these two batteries.

4. Sir Frederick Roberts considers that the screen of trees proposed by the Executive Engineer should be extended along the coast line, so as to give no indication of the position of the batteries from the sea, and likewise that the bamboo screens, proposed to be erected before the trees have grown, should be placed on other points of the shore besides those where batteries have been erected.

5. I am also desired to invite the attention of Government to the timber lying on the shore referred to by the Executive Engineer in his report, and to suggest that, under the orders of Government, it may be either removed or utilised on the work under reference.

No. 2907, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

Ootacamund, (Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
29th May 1885. Offg. Secretary to Government.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 18th July 1885, No. 1651.

With reference to your memorandum, No. 1059 C., dated 15th June 1885, I have the honor to submit plans and estimate, amounting to Rs. 8,240, for modifying the coast batteries at Madras, as suggested by the Quartermaster-General in his letter, No. 1197 B., dated 28th May 1885, now returned.

2. Regarding the removal of timber lying on the shore and referred to by the Quartermaster-General in paragraph 5 of his letter, a separate report has been sent in Colonel Burton's letter, No. 1143, dated 19th June 1885.

Order—dated 14th August 1885, No. 1877 W., Public Works.

The estimate, amounting to Rs. 8,240, for alterations in the coast batteries at Madras, is sanctioned, and the amount is allotted by transfer from the current year's grant for public buildings for a regiment of native cavalry at Bangalore (item No. 2 in G.O., dated 10th July 1885, No. 1595 W.).

2. This sanction has been registered as Imperial, Ordinary, No. 32 W. of 1885-86, and classified as Military, Original Works.

3. Separate orders will issue on the subject referred to in paragraph 5 of the Quartermaster-General's letter.

(True Extract.)

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

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

Exd. J. Henricus.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated August, 14th.

Recd. *Encl.*

G.O., 14th Aug. 1885, No. 1877 W.

AUGUST.

Coast Batteries, Madras

Estimate for alterations in —, sanctioned with remarks.

S.o. A. No 2446 W a/ 20-10. 85
" " " 2445 W a/ 20-10-85
" B " 3142 W a/ 20-12-84

Telephone Message

from Secy to Govt.
Mily Dept.

To Secy to Govt. P.W.D.

6/91 - 5 Nov.

No. ~~64, 62.~~ 14th

Commissary General presses for early action on his application. The case is very urgent and present state of the godowns greatly enhances his difficulties under existing war pressure. Early provision of required funds absolutely necessary. Please reply.

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated August, 14th.

Recd. *Encl.*

G.O., 14th Aug. 1885, No. 1877 W.

AUGUST.

Coast Batteries, Madras

Estimate for alterations in —, sanctioned with remarks.

1885.

P. W. DEPARTMENT.

Current No. 9652.

From

The military Dept.

Enclos.—

No. 6191.
Dated 5th Novr. /85
Received 6th

Subject.

Transferring letter from Commissary General requesting to authorize the D.P.W. to carry out the necessary repairs and alterations to the Coast Godowns.

Disposal.

D
No. 29. Dated 7th Novr. /85

To 1813 W
S. E. V

For very early attention, and for report whether he can make funds available by transfer or otherwise for these urgent repairs

B 30/11 30/ Duncan C.

Telephone message

From Secy to Govt.
Mily Dept.
To Secy to Govt. P.W.D.

6191 – 5 Novr.
No. 6462 – 16th.

Commissary General presses for early action on his application. The case is very urgent and present state of the godowns greatly enhances his difficulties under existing war pressure. Early provision of required funds absolutely necessary. Please reply.

S.o. A. No 2446 w/a 20-10-85
" " " 2445 w/a 20-10-85
" B " 8142 w/a 20-12-84

---

188 5.

P. W. DEPARTMENT.

Current No. 9838

From The S.E. V Circle

ENCLOS.—

No. 3439
Dated 12-11-85
Received 13-11-85

SUBJECT.

Beer godowns at Commissary General's Office, Madras – proposing certain reappropriation of funds under Imperial Military for alteration to —

DISPOSAL.

No. 1852 Dated 14th Nov/85

Referred to the Military Dept., with advertence to endorsement in that Dept. No 6191 dated 5th Nov/8 for favor of very early informati whether the Provincial Commander- Chief has any objection to the transf funds proposed by the Superinten gineer V Circle, to enable him carry out urgently required r pairs to the Commissariat godow adras. J.L.L.

14/11/85 Secy to Govt P.W.D.

Telephone message

From Secy to Govt. Mily Dept.

To Secy to Govt. P.W.D.

6191 - 5 Nov.

No. 6462 - 16th

Commissary General presses for early action on his application. The case is very urgent and present state of the godowns greatly enhances his difficulties under existing war pressure. Early provision of required funds absolutely necessary. Please reply.

No. 2529 Ba 17-11-85
G.O. 1877 Wa 14-8-85
" 3142 Wa 20-12-84
" 2446 Wa 20-10-85
" 2445 Wa do

Telephone Message

From Secy to Govt.
Mily Dept.

To Secy to Govt. Mrs.

6191 - 5 Nov.

No. 6462 16th

Commissary General presses for early action on his application. The case is very urgent and present state of the godowns greatly enhances his difficulties under existing war pressure. Early provision of required funds absolutely necessary. Please reply.

W

The accy. Telephone message has just been received from Military Dept.

To provide for the urgently needed repairs to the Commissariat godowns, the S. E. V Circle proposed a reappropriation of funds from the grant for Cavalry buildings at Bangalore.

Some months ago, the Qr Mr Genl particularly requested that no further reduction in that grant should be ordered, so, before sanctioning the reappropriation suggested by S. E. V, the question was referred to the Mily.

Dept, whether the Commr in Chief would concur. vide reference No 1852C d/ 14.11.85.

The Mily Dept. do not now allude to this question.

Proposed to send the following reply to M.D.

"Please see my reference No 1582C d/ 14.11.85 – to which no reply has been received. "If the transfer of funds from Cavalry buildings Bangalore be assented to, the repairs to Commissariat godowns Madras will be put in hand at once"

Despd 18/11/85

Yes

=

For orders whether in the meantime the S.E. may be told to put the repairs in hand on emergency.
CM 19.11.85

Urgent

P.W.D.

No. 1861 C of 18th Novr/85

Memo.

With advertence to his letter No 3439 dated 12th Novr 1885, the Supdg. Engr. V Circle is requested to put in hand on emergency the repairs needed to the Commissariat godowns at Madras.

Orders will issue separately with respect to the transfer of funds proposed by the Supdg. Engr. in his letter above quoted.

18.11.85

S.E. V Circle

Despd 18/11/85
Cu

No. 1852 C a/ 14-11-85
" 2529 D a/ 7-11-85
G.O. A/1877 W a/ 14-8-85
" B/3142 W a/ 20-12-83
" A/2446 W a/ 20-10-85
" 2445 W a/ do

Urgent

No. 1881 C a/ 18-11-85

B 11/18/11

Appendix to G.O., No. 1563 W., dated 6th July 1885.

A.—Statement showing amounts applied for and those granted under Imperial Military and Civil Buildings, Roads and Services.

—	Amounts applied for.								Amounts granted.							
	Minor Works.				Repairs.				Minor Works.				Repairs.			
	Military.	Civil Buildings.			Military.	Civil Buildings.			Military.	Civil Buildings.			Military.	Civil Buildings.		
		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.		Postal.	Telegraph.	Salt.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	1,290	59	..	..	2,000	500	..	..	..	..	..	..	2,000	500	..	..
Vizagapatam	143	100	..	..	2,500	300	300	..	..	..	..	..	2,270	300	300	..
Eastern Godávari	..	..	..	..	700	..	..	..	..	..	..	..	700	..	..	..
Central do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Western do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rushikulya	..	..	..	..	..	73	450	..	..	..	..	..	..	73	300	..
Eastern Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gudiváda	..	..	..	..	..	..	300	..	..	..	..	..	..	..	200	..
Western Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sangam Project	..	..	..	..	20,000	200	200	..	..	..	..	..	20,000	200	200	..
Bellary	500	..	..	..	..	200	..	..	..	..	..	..	..	200	..	..
Cuddapah	..	100	..	..	..	200	..	..	..	..	..	..	..	200	..	..
Kurnool	..	..	..	..	15,000	500	..	..	..	..	..	..	13,000	500	..	..
Nilgiri	..	..	..	..	25,000	500	..	..	..	..	..	..	25,000	500	..	..
West Coast	..	590	..	..	5,000	200	..	..	..	..	..	..	5,000	200	..	..
Coimbatore	..	..	..	..	2,000	100	..	..	..	..	..	..	2,000	100	..	..
North Arcot	..	..	..	..	..	100	..	..	..	..	..	..	..	100	..	..
South Arcot	..	..	..	..	20,200	..	..	..	..	..	..	..	10,000	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Buckingham Canal.. ..	..	..	..	..	66,000	500	500	..	..	..	..	..	65,000	500	500	..
Presidency	..	..	..	..	3,000	..	..	..	..	..	..	..	3,000	..	..	..
Trichinopoly	200	..	..	..	..	300	..	..	..	..	..	..	..	300	..	..
Tanjore	..	..	..	..	396	..	1,530	..	..	..	..	..	389	..	1,060	..
Negapatam	..	..	..	..	..	30	..	..	..	..	..	..	..	30	..	..
Madura..	..	..	..	..	..	..	440	..	..	..	..	..	..	..	440	..
Tinnevelly	..	..	..	..	..	..	..	..	..	1,991	..	..	..	..	..	..
Director-General of Post Offices.	..	..	..	..	..											
Reserve with Government ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,297	..	..
Total ..	2,133	849	..	..	1,61,796	3,703	3,720	..	..	1,991	..	..	1,48,359	5,000	3,000	..

B.—Statement of requirements on account of Imperial Incomplete Works for 1884-85 and of New Works sanctioned but not yet commenced.

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Amount applied for 1885-86: For Incomplete Works.	Amount applied for 1885-86: For New Works.	Amount allotted: For Incomplete Works.	Amount allotted: For New Works.	Item No.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13
		IMPERIAL.	RS.		RS.	RS.	RS.	RS.	RS.	RS.		
		CIVIL BUILDINGS, ROADS AND SERVICES.										
		Minor Works.										
Ganjam ..	1	Purchase of a postal building at Russellkonda for post-office.	641	G.O., No. 2363 W., dated 24th September 1884.	..	641	..	641	..	..	1	No funds available.
Godávari, Eastern	2	Post-office at Bhadráchalam	830	G.O., No. 2623 W., dated 27th October 1884.	..	830	..	830	..	..	2	Do. do.
Kistna, Western.	3	Post-office at Duggirala	900	G.O., No. 1918 W., dated 9th July 1883, and G.O., No. 2415 W., dated 1st October 1884.	..	900	..	900	..	..	3	Do. do.
Cuddapah ..	4	Improvements to the post-office at Cuddapah.	1,440	G.O., No. 1995 W., dated 14th August 1884.	300	1,140	1,140	..	1,140	..	4	From minor works grant.
North Arcot ..	5	Constructing a parapet-wall to the post-office at Rénigunta.	133	Superintending Engineer's Register No. 25 of 1883-84.	90	43	43	..	..	..	5	Appropriation not necessary under code paragraph 2293, III.
Do. ..	6	Constructing a kitchen and a well in the post-office at Venkatagirikótta.	355	G.O., No. 71 W., dated 9th January 1885.	90	265	265	..	..	..	6	Do. do. do.
Presidency ..	7	Dismantling and rebuilding the stable and latrine of the Government telegraph office, Bangalore.	447	....	281	166	166	..	..	..	7	Do. do. do.
Do. ..	8	Adapting the old telegraph office at Bangalore as signallers' quarters.	280	....	59	221	221	..	..	..	8	Do. do. do.
Do. ..	9	Providing new teak fittings to the new telegraph office, Bangalore.	397	....	296	101	198	..	..	..	9	Do. do. do.
Trichinopoly ..	10	Constructing a post-office at Musiri ..	2,495	G O., No. 2083 W., dated 23rd August 1884.	1,473	1,022	1,022	..	1,022	..	10	From minor works grant.
		Total ..	..		..	..	3,055	2,371	2,162	..		
		Major Works.										
Vizagapatam ..	1	Constructing a post-office with out-houses and quarters for the post-master at Korapet.	2,560	G.O., No. 80 W., dated 11th January 1884.	813	1,747	1,747	..	1,747	..	1	From minor works grant.
Godávari, Eastern	2	Improvements to the telegraph office at Cocanada.	4,000	G.O., No. 1084 W., dated 8th May 1885.	210	3,790	3,790	..	2,500	..	2	Do. do.
		Total ..	..		..	..	5,537	..	5,247	..		

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Amount applied for 1885-86: For Incomplete Works.	Amount applied for 1885-86: For New Works.	Amount allotted: For Incomplete Works.	Amount allotted: For New Works.	Item No.	Remarks.
		MILITARY.										
		Minor Works.										
Ganjam ..	1	Constructing a school-house for the native infantry regiment at Berhampore.	1,390	G.O., No. 3536 W., dated 10th December 1883.	..	1,390	..	1,390	..	..	1	Funds allotted in separate orders.
Vizagapatam ..	2	Additions to the regimental hospital of the 16th Regiment, Madras Native Infantry, at Vizianagrum.	515	G.O., No. 179 W., dated 21st January 1884.	..	515	..	515	..	..	2	No funds available.
Do. ..	3	Improvements to the hospital of the 16th Regiment, Madras Native Infantry, at Vizianagrum.	545	G.O., No. 1746 W., dated 16th July 1884.	..	545	..	545	..	..	3	Do. do.
Do. ..	4	Constructing a magazine for the 16th Regiment, Madras Native Infantry, at Vizianagrum.	1,530	G.O., No., 278 W., dated 5th February 1885.	..	1,530	..	1,530	..	..	4	Do. do.
Do. ..	5	Constructing three latrines for the 16th Regiment, Madras Native Infantry, at Vizianagrum.	2,040	G.O., No. 1237 W., dated 28th May 1885.	..	2,040	..	2,040	..	..	5	Do. do.
Do. ..	6	Latrines for the Madras native infantry at Vizianagrum.	..	....	..	..	..	747	..	..	6	Estimate awaited.
Nílgiri ..	7	Converting a portion of No. 5 barracks at Wellington into a canteen, and the present canteen into a store-room.	1,130	G.O., No. 1083 W., dated 8th May 1885.	..	1,130	..	1,130	..	1,130	7	From minor works grant.
Do. ..	8	Constructing arm racks for the detachment of native infantry at Ootacamund.	660	G.O., No. 2822 W., dated 11th November 1884.	..	660	..	660	..	660	8	Do. do.
West Coast ..	9	Constructing a rifle range at Calicut ..	200	Superintending Engineer's Register No. 6 of 1884-85.	107	93	93	..	..	..	9	Appropriation not necessary under code para. 2293 III.
Do. ..	10	Fixing lightning conductor to the old station magazine at Cannanore.	500	Do. No. 68 of 1883-84.	82	418	418	..	..	..	10	Do. do. do.
Do. ..	11	Fixing lightning conductors to the new station magazine at Cannanore.	500	Do. No. 67 of 1883-84.	92	408	408	..	..	..	11	Do. do. do.
Do. ..	12	Fixing iron dampers to the ovens of the Government bakery, and alterations to the buildings at Cannanore.	..	....	92	658	658	..	658	..	12	From minor works grant.
Do. ..	13	Wire fence round the European infantry barracks at Cannanore.	1,130	....	150	980	980	..	980	..	13	Do. do.
Do. ..	14	Cart-shed at Malapuram	950	G.O., No. 287 W., dated 17th November 1884.	..	950	..	950	..	950	14	Do. do.
Do. ..	15	Converting the old cells in the Cannanore fort into a double magazine and treasure-room.	2,420	G.O., No. 2368 W., dated 24th September 1884.	..	2,420	..	2,420	..	2,000	15	Do. do.
Do. ..	16	Reroofing the regimental store-room at Quilon.	372	Superintending Engineer's Register No. 15 of 1884-85.	..	372	..	372	..	..	16	No funds available.
Do. ..	17	Alterations to the recreation and reading room of the British infantry regiment at Cannanore.	710	G.O., No. 271 W., dated 4th February 1885.	..	710	..	710	..	710	17	From minor works grant.
Coimbatore ..	18	Constructing two cisterns to hold water for fire-engine at the Remount depôt, Hosúr.	1,330	G.O., No. 961 W., dated 23rd April 1885.	..	1,330	..	1,330	..	..	18	No funds available.
Do. ..	19	Fixing up a weigh-bridge and constructing a shed over it in shed lines at the Remount depôt, Hosúr.	172	Superintending Engineer's Register No. 6 of 1884-85.	..	172	..	172	..	..	19	Do. do.
North Arcot ..	20	Materials for the sanitary improvements in the court-yards of sepoy lines of the 10th Regiment, Native Infantry, at Vellore.	1,810	G.O., No. 2877 W., dated 18th November 1884.	10	1,800	1,800	..	1,800	..	20	From minor works grant.

B.—Statement of requirements on account of Imperial Incomplete Works for 1884-85 and of New Works sanctioned but not yet commenced—*cont.*

Division.	Item No.	Name of Work.	Amount of Estimate.	Number and Date of Sanction.	Past Expenditure.	Balance of Estimate.	Amount applied for 1885-86		Amount allotted		Item No.	Remarks.
							For Incomplete Works.	For New Works.	For Incomplete Works.	For New Works.		
1	2	3	4	5	6	7	8	9	10	11	12	13
		IMPERIAL—*cont.* MILITARY—*cont.* *Minor Works*—cont.	RS.		RS.	RS.	RS.	RS.	RS.	RS.		
Presidency ..	21	Parade barracks, provost cells	1,198	G.O., No. 595 W., dated 13th March 1885.	..	1,198	..	1,127	..	1,127	21	Frommin or works grant.
Do. ..	22	Constructing surface drains of wash-houses, parade barracks.	780	G.O., No. 1646 W., dated 1st July 1884.	..	780	..	780	..	780	22	Do. do.
Do. ..	23	Constructing a rifle range for the British infantry near Fort St. George.	1,830	G.O., No. 1388 W., dated 15th June 1885.	..	1,830	..	1,830	..	1,830	23	Do. do.
Chingleput ..	24	Providing drains from bath-rooms as far as main drains of 24 family quarters of troop lines at Saint Thomas' Mount.	1,050	G.O., No. 2116 W., dated 27th August 1884.	232	818	818	..	818	..	24	Do. do.
Do. ..	25	Rebuilding five latrines attached to the family quarters of the Q-1st, Royal Artillery at St. Thomas' Mount.	625	G.O., No. 1417 W., dated 17th June 1885.	..	625	..	625	..	625	25	Do. do.
		Total ..	..		..	..	5,175	18,873	4,256	9,812		
		Major Works.										
Vizagapatam ..	1	Constructing a store-shed for the 16th Regiment, Madras Native Infantry, at Vizianagrum.	3,480	G.O., No. 2628 W., dated 27th October 1884.	..	3,480	..	3,480	..	..	1	No funds available.
Bellary ..	2	Slaughter-house and hanging-shed for meat at Bellary.	10,066	G.O., No. 843 W., dated 6th April 1885.	7,449	2,617	2,617	..	2,617	..	2	From minor works grant.
Nilgiri ..	3	Additional hospital accommodation for women and children at Wellington.	3,036	G.O., No. 269 W., dated 4th February 1885, and No. 1573 W., dated 6th July 1885.	..	3,036	..	3,000	..	..	3	No funds available.
West Coast ..	4	Putting the Cannanore fort into a state of defence.	2,958	G.O., No. 2571 W., dated 20th October 1884.	..	2,958	..	2,958	..	2,498	4	From minor works grant.
North Arcot ..	5	Constructing a draw-bridge and gate for the fort at Vellore.	6,450	G.O., No. 528 W., dated 7th March 1885.	..	6,450	..	6,450	..	..	5	Funds allotted in separate orders.
Do. ..	6	Armourer's shop for the native infantry regiment at Vellore.	2,800	G.O., No. 1547 W., dated 20th June 1881.	2,682	118	118	..	..	..	6	Appropriation not necessary under code paragraph 2293 III.
Presidency ..	7	Fortified post at Agaram, Bangalore ..	37,300	G.O., No. 1250 W., dated 29th May 1885.	34,467	2,833	3,020	..	3,020	..	7	From minor works grant.
		Total ..	..		..	..	5,755	15,888	5,637	2,498		

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers:—

From the Superintending Engineer,	I Circle,	dated	27th May 1885,	No. C-56.
,, ,, ,,	II ,,	,,	16th ,, ,,	,, 56 G.L.
,, ,, ,,	III ,,	,,	4th ,, ,,	(3 statements.)
,, ,, ,,	,, ,,	,,	16th ,, ,,	,, 345.
,, ,, ,,	IV ,,	,,	14th ,, ,,	,, 194 E.W.
,, ,, ,,	,, ,,	,,	16th ,, ,,	,, 200 E.W.
,, ,, ,,	,, ,,	,,	15th ,, ,,	,, 197 E.W.
,, ,, ,,	,, ,,	,,	16th ,, ,,	,, 203 E.W.
,, ,, ,,	,, ,,	,,	18th ,, ,,	,, 205 E.W.
,, ,, ,,	,, ,,	,,	28th ,, ,,	,, 221 E.W.
,, ,, ,,	,, ,,	,,	6th June ,,	,, 232 E.W.
,, ,, ,,	,, ,,	,,	26th ,, ,,	,, 264 E.W.
,, ,, ,,	V ,,	,,	15th May ,,	,, 650.
,, ,, ,,	,, ,,	,,	15th ,, ,,	,, 652.
,, ,, ,,	,, ,,	,,	23rd ,, ,,	,, 791.
,, ,, ,,	VI ,,	,,	7th ,, ,,	,, 209 T.J.
,, ,, ,,	,, ,,	,,	21st ,, ,,	,, 32 C-T.J.
,, ,, ,,	,, ,,	,,	6th June ,,	,, 129 T.N.
,, ,, ,,	,, ,,	,,	12th ,, ,,	,, 430 T.J.
,, Director-General of Telegraphs,		,,	30th April ,,	,, 320.

ORDER—dated 6th July 1885, No. 1563 W., Public Works.

In the papers read above, the Superintending Engineers apply for funds, under Imperial Military and Civil Buildings, Roads and Services, on account of—

(*a*) anticipated outlay on minor works, in lump sums;
(*b*) incomplete works of 1884-85;
(*c*) new works recommended to be taken up in the current official year, and
(*d*) repairs.

2. Under Imperial Military, the budget grant for minor works amounts to Rs. 20,000; and the Superintending Engineer, V Circle, having surrendered a sum of Rs. 2,203 from the grant for new barracks for Royal Artillery at St. Thomas' Mount, the same will be resumed and added to the grant for minor works, in anticipation of sanction by the Government of India. Against the total of Rs. 22,203 so arrived at, the demands of Superintending Engineers amount to Rs. 47,824, as shown below:—

	RS.
For minor works anticipated, lump sums	2,133
,, incomplete minor works	5,175
,, ,, major works	5,755
,, new minor works specified	18,873
,, ,, major works	15,888
Total ...	47,824

3. The minor works grant has been distributed as follows :—

	RS.
For incomplete minor works, *vide* statement B	4,256
,, ,, major works, ,, ...	5,637
,, new minor works, ,, ...	9,812
,, ,, major works, ,, ...	2,498
Total ...	22,203

4. There is thus no balance left in hand, and it is found impossible to provide any lump sums for anticipated outlay on minor works.

5. The allotment under Repairs will be found in statement A. The demands under that head amount to Rs. 1,61,796, but have been reduced to Rs. 1,48,359 in order to bring the allotments within the available grant.

6. Under Imperial Civil Buildings, Roads and Services, the demands against original works amount to—

	RS.
Postal incomplete works	4,217
,, new works	3,220
Telegraph incomplete works	4,375

of which Rs. 3,909 under Postal have been allotted for incomplete works. The balance of the minor works grant, after the above allotment, is Rs. 1,991 ; and it is placed at the disposal of the Director-General of Post Offices as shown in statement A.

7. A sum of Rs. 2,500, being the available minor works grant under Telegraph, has been allotted to complete the improvements to the telegraph office at Cocanada.

8. The allotments under Repairs will be found in statement A. The demands under Telegraphs have been reduced to Rs. 3,000, in order to bring the allotments within the provision in the budget.

9. Ordered that copies of these proceedings be forwarded to the Government of India in the Military and Public Works departments.

(Here enter No. 1564 W., dated 6th July 1885.)

(True Extract.)

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

To Superintending Engineers.
To the Examiner, Public Works Accounts.
,, Director-General of Post Offices.
,, ,, of Telegraphs.
,, Military Department.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1885) Madras.

PUBLIC WORKS.

Dated July, 6th.

Recd. *Encl.*

G.O., 6th July 1885, No. 1563 W.

JULY.

Funds

Orders distributing — under Imperial Military and Civil Buildings, Roads and Services, for incomplete and minor new works.

GENERAL.
ACCOUNT.

Govt. of 1885 Madras.

PUBLIC WORKS.

Dated July, 6th.

Recd. *Encl.*

G.O., 6th July 1885, No. 1563 W.

JULY.

Funds

Orders distributing — under Imperial Military and Civil Buildings, Roads and Services, for incomplete and minor new works.

Reference to Madras P. W. D. Code.
Paras. 2362 to 2365.

B. M. 3142 W 20.12.84
G. O. No 2445 W 20.10.85
" " 2446 W 20.10.85
" " 1877 W. 14.8.85
No 2529 D. 7.11.85
" 1852 C. 14.11.85
" 1881 C. 18.11.85
" 1563 W. 6.7.85

A. S. 48/5.

---

(4)

P. W. D. Form.
No. M 112.

CENTRAL OFFICE OF ACCOUNTS.

Fifth

Imperial Military Civil
Buildings Roads and Services
3/5/86

Fincial Statement of Objectionable Items in the Accounts of Executive Engineers for the month of February 1886.

Madras,
Dated 3d May 1886.

Forwarded for orders to the Secretary to overnment, Public Works Department, Madras.

No. 1231 W a/14th May/86

Examiner of P. W. Accounts,
Madras.

B W/14/5

Entd. in Rept. Regr.

Provincial Sheet of Objectionable Items in the Accounts of Executive Engineers for the month of February 1886 requiring the orders of Government.

Item No.	Particulars of each Item.	Objectionable Expenditure first appeared.	Comparison with Estimate.			Comparison with Appropriation of the Year.			Expenditure during the Month.	Opinion of the Superintending Engineer, with final Remarks by Examiner.	Orders by Government.
			Amount of Estimate.	Expenditure up to Date.	Excess over Estimate.	Amount of Appropriation.	Expenditure of the Year.	Excess over Appropriation.			
	Imperial Military Want of Estimate										No 1231 W of 14th May/86
1	Alterations to Commissariat Godown Madras	Dec 85		2515	2515				2515	The Executive Engineer states that the Estimate has been submitted to Superintending Engineer IV Circle for sanction on 19 February 1886 and that the work was commenced on emergency as per Superintending Engineer's Endorsement No 3574 dated 20th Nov: 1885 on Chief Engineer's Memo No 1881 C of 18 ~~11~~ November /85. Sanction to Estimate still awaited	The submission of an estimate for this work should be expedited The submission of an estimate for this work should be expedited.
	Civil Buildings Roads and Services Excess over appropriation										
2.	Minor Original Works Civil Buildings	[illegible]				687	1193	506	55	The excess is due to the Non-appropriation of additional Funds for incomplete Minor Works of 84/85 as the amount required for each work was under Rs 500/- vide G.O. No 1563 W / 6-7-85 but as the Grant ~~of~~ for Minor Works is always dealt with in a Lump Sum and as the Excess is over Rs 500/- it is brought to notice & will be accepted if approved of by Government	Approved. Approved.

D. C. Carmony

Examiner of P. W. Accounts,
Madras.

10/5/86

15/5

To The Supdg Engr IV Circle thro' the Examr of P. W. Accts