(1) பக்கங்களின் எண்ணிக்கை 42

(2) புதுக்கித் திருப்பிய நாள் 11/90.

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணி துறை

அரசாணை எண். / மு. கோப்புத் தாள் எண். 1500 (W)	அச்சகம் / பலவகை
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18,000—15-6-87.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

EAD—the following papers:—

From Major-Genl. E. H. H. COLLEN, C.I.E., Secretary to the Government of India, Military Department, to Brigdr.-Genl. A. KENNEY-HERBERT, Secretary to the Government of Madras, Military Department, dated Simla, the 4th September 1889, No. 1763 M.W. (Establishments).

With this office letter No 1821-B, dated 22nd July 1889, I had the honor to rward, for the information of the Governor in Council, a copy of the despatch from Secretary of State for India, No. 110, dated 30th May 1889, relating to the idential system of the Indian armies. In this despatch certain changes in the inistration of the Commissariat and Clothing Departments, and other measures, sanctioned by the Secretary of State; it was suggested by the Governor-General ouncil that these changes should take effect from 1st October 1889.

2. Viscount Cross further stated that he should have had no hesitation in adding Department of Military Works to those which it is expedient to bring under the diate control of the Government of India, were it not that there appeared to be le a divergence of opinion in the Council of the Viceroy and Governor-General the economical results of the measure.

3. I am now directed to state, for the information of the Government of Madras, he subject of the transfer of the control of military works in all parts of and Burma to an Imperial Military Works Department under the immediate ion of the Government of India has received further examination and consider- by the Governor-General in Council, with the result that the Government ia are now unanimous that it is advisable in the interests of the State to ace, although in a somewhat modified form, the system of Military Works istration proposed for the sanction of the Secretary of State in their Despatch 191 (Military) of 15th October 1888 and its accompanying draft General Order. modification in question is that whereas the system as above laid down pro- d for the transfer to the Military Works Department of all military works, it is proposed that the change shall be applied only to the large military stations or s of military stations, where the work is sufficient to require the entire services Executive Engineer, military works at the smaller stations continuing to be out as at present through the agency of the Public Works Department.

4. The large military stations thus indicated, which would include those beyond mits of the Madras Presidency (but occupied by Madras troops), the military s at which are now carried out by the agency of the respective local Administra- will constitute the command or charge for a Superintending Engineer, who will part of the establishment of the Inspector-General of Military Works, but will oe on the staff of the Commander-in-Chief of the Madras Army, and will carry is duties under the orders of those authorities in the manner laid down in the Genera Order.

5. This Military Works Command will be constituted in the same way as the ands of the Military Works Department in the Bengal Presidency, with the rules governing the military and departmental status and duties of the estab-

lishments, and the relations of officers and subordinates of the various grades to the Military authorities, and to their departmental head, and to each other.

6. The stations in Madras which it is proposed should form a part of the Madras Command of Military Works are—

Madras, with the adjacent stations of St. Thomas' Mount and Pallávaram. Poonamallee. Vellore (Fort). Wellington. Bangalore. Bellary.	With these will be combined the following stations in Bombay, Hyderabad and Burma at present dealt with by the respective Government and local Administrations :— Belgaum. Secunderabad. Rangoon, with Thayetmyo and Toungoo (and Moulmein, if defences should be constructed there). Mandalay.

7. The other military stations occupied by Madras troops would remain in charge of the Public Works Department. On the other hand, the Military Works Department would be required to undertake charge of civil public works, if so desired, in military stations where there is a Military Works establishment.

8. I am to ask that the Governor in Council may now be moved to favor the Government of India with any suggestions or observations which His Excellency in Council may desire to offer in regard to the procedure for carrying out the measure, and also in respect to the formation of the Military Works Divisions within the Madras Presidency, especially as to whether the establishments now attached to these divisions can be transferred in whole or part. It is considered that there need be only two such divisions, the head-quarters of which it is thought would be most suitably located at Madras and Bangalore, but on this point the opinion is sought of the Government and Commander-in-Chief of Madras. The three other Military Works Divisions of the Madras Command would be Secunderabad, Rangoon and Mandalay.

9. Of the officers and subordinates available for transfer, the former must necessarily, and the latter should preferably, be all military men.

No. 6552.

Referred to the Public Works Department for favor of remarks, with advertence to Proceedings of Government, No. 5947, dated 24th September 1886.

Fort St. George,
25th September 1889.

(Signed) H. R. SHELLEY, Colonel,
for Secretary to Government.

Copy forwarded to the Quartermaster-General with the remark that the whole correspondence will be submitted for the observations of His Excellency the Commander-in-Chief on receipt of the reply from the Public Works Department.

(Signed) H. R. SHELLEY, Colonel,
for Secretary to Government.

From Brigadier-General M. PROTHEROE, C.B., C.S.I., Quartermaster-General, Madras Army, to Brigadier-General A. KENNEY-HERBERT, Secretary to Government, Military Department, dated Ootacamund, 16th October 1889, No. 3595-A (Establishments).

In returning your reference order No. 6552, dated 25th ultimo, to the address of the Public Works Department, I have been desired by the Commander-in-Chief to enclose, for the consideration of Government, the reply of that department on the subject of the proposed establishment of a Military Works Department in this Presidency, contained in the memorandum, number and date as per margin, received

No. 4643-C, dated 14th October 1889.

in this office on the 15th instant, with a remark to the effect that His Excellency concurs in the opinion that there need be only two Military Works Divisions in the Madras Presidency, with their head-quarters located at Madras and Bangalore respectively.

2. With reference to para. 4 of Public Works Department memorandum, His Excellency is of opinion that the Executive Engineers should not be of such high standing or of such an age as the two officers of the first grade therein named.

3. With regard to the order of Government as per margin, it is presumed that arrangements will now be made for the transfer of the Barrack Department to the new Military Works Department.

Dated 16th August 1888, No. 5592.

Memorandum from Lieutenant-Colonel R. R. E. DRAKE-BROCKMAN, R.E., Acting Joint Secretary to Government, Public Works Department, to Brigadier-General A. KENNEY-HERBERT, Secretary to Government, Military Department, dated Madras, 14th October 1889, No. 4643-C.

In returning the letter from the Government of India, referred under Military Department endorsement No. 6552, dated 25th September 1889, the undersigned is directed to state that the Government accept generally the proposals of the Government of India with respect to the organisation of a Military Works Department for the Madras Command.

2. In view of the few stations in this Presidency, the military works at which it is proposed to place under the charge of the Military Works Department, it is considered that two divisions will be sufficient, and they might be organised as follows :—

Madras Division.

Madras (head-quarters). St. Thomas' Mount. Pallávaram.	Poonamallee. Vellore.

Bangalore Division.

Bangalore (head-quarters). Wellington.	Bellary.

3. Each division would probably require—

One Executive Engineer. Two Assistant Engineers.	Two Sub-Engineers. Five Overseers.

4. The services of the following officers can be placed at the disposal of the Government of India for employment in the new department :—

* * * Superintending Engineer.
* * * Executive Engineer, 1st grade.
* * * Executive Engineer, 1st grade.
* * * Assistant Engineer, 1st grade.
Six Upper Subordinates who can be selected when required.

5. The average annual expenditure on military works at the stations named for the three years ending 1888-89 was Rs. 3,86,274, and the average contribution from Imperial Military to Provincial funds on account of establishment was Rs. 88,843. The total possible reduction in the Provincial establishment is estimated at about Rs. 50,000, so that Provincial funds will sustain a loss of about Rs. 39,000 per annum by the withdrawal of military works at the stations named.

6. There are no Provincial civil works at Bangalore, and as Public Works Department establishments will continue to be employed at Ootacamund, Madras, St. Thomas' Mount, Vellore and Bellary, the civil works (other than the Imperial civil works at Bangalore) there and at Wellington, Pallávaram and Poonamallee will not be handed over to the Military Works Department. The present Presidency and Nilgiri divisions of the Madras Public Works Department will probably be closed.

7. No observations are offered with respect to the organisation of the new department at stations which are within the Madras Command, but beyond the limits of the Presidency. It is presumed that the Government of India will issue the necessary orders with respect to such stations, and will also arrange for the audit of the accounts of the Military Works Department generally.

G.O., dated 1st November 1889, No. 7561, Military.

From Major-General E. H. H. COLLEN, C.I.E., Secretary to the Government of India, Military Department, to Brigdr.-Genl. A. KENNEY-HERBERT, Secretary to the Government of Madras, Military Department, dated Simla, the 22nd October 1889, No. 2156-M.W. (Establishments).

I am directed to acknowledge the receipt of your telegram of the 18th instant, regarding the transfer of the control of military works in the larger stations of the Madras Presidency to the Military Works Department, and to express the thanks of the Governor-General in Council for the cordial manner in which the wishes of the Government of India, in the matter, have been responded to.

2. The Government of India agree with the Government of Madras that the executive divisions to be transferred should be limited to two, Madras and Bangalore with Bellary and Belgaum. As regards the staff of officers to be permanently transferred to the Military Works Department, the number would apparently be two executives and two or three assistants; I am to say that the Government of India would wish that the detailed arrangements may be settled by the Inspector-General of Military Works in communication with the Public Works Department, Madras, no officer being selected for transfer except by his own desire. The transfer of these officers, when a selection has been made, will be notified in the Government of India Gazette in due course.

3. As regards the date of transfer, the Governor-General in Council thinks that the most convenient course will be to appoint the Superintending Engineer in the first instance, who, in communication with the Head-quarters of the Madras Army, the Madras Public Works Department and the local Departments of Burma and Hyderabad, should take over division by division as quickly as the arrangements can be made. A Superintending Engineer will accordingly be nominated at once, and Lieutenant-Colonel W. P. Tomkins, R.E., now Superintending Engineer, Baluchistan, has been selected for the duty. In this way probably the change may be accomplished in two or three months.

Order—dated 1st November 1889, No. 7561, Military.

Communicated to His Excellency the Commander-in-Chief and the Public Works Department, with reference to Proceedings of Government, No. 7468, dated 30th October 1889.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

G.O., dated 16th November 1889, No. 7982, Military.

From Major-General E. H. H. COLLEN, C.I.E., Secretary to the Government of India, Military Department, to Brigdr.-Genl. A. KENNEY-HERBERT, Secretary to the Government of Madras, Military Department, dated Simla, the 7th November 1889, No. 2327-M.W. (Establishments).

In continuation of Military Department letter No. 2156-M.W., dated 22nd October 1889, I am directed to forward, for the information of His Excellency the Governor in Council, the accompanying copy of a letter* addressed to the Inspector-General of Military Works requesting that officer to put in train, as soon as possible, the detailed arrangements for the extension of the Military Works Department.

* No. 2180-M.W., dated 25th October 1889.

Enclosure.

From Government of India, Military Department, to Inspector-General of Military Works, dated 25th October 1889, No. 2180-M.W.

In continuation of Military Department No. 1814-M.W., dated 10th September 1889, I am directed to forward, for your information, copies of the further correspondence noted in the accompanying list, relative to the formation of Military Works Commands in the Madras and Bombay Presidencies, and to request that you will be good enough, in communication with the Local Governments and Administrations, to put the detailed arrangements in train as soon as possible.

2. Letters similar to those to the Madras and Bombay Governments, copies of which are included in the present enclosures, will issue to the remaining Administrations immediately, and copies will be furnished to you.

3. A Special Army Circular, embodying the orders in connection with the extension of the Military Works Department, will be published forthwith, and the Gazette of next Saturday will contain a notification transferring Lieutenant-Colonel Twemlow, R.E., from the Bombay Public Works Department to the Military Works Department.

Order—dated 16th November 1889, No. 7982, Military.

Communicated to His Excellency the Commander-in-Chief and the Public Works Department, in continuation of Proceedings of Government, No. 7561, dated 1st November 1889.

2. The orders of the Government of India sanctioning the extension of the Military Works Department to the Madras Presidency will be found embodied in Special India Army Circular, dated 28th October 1889.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

G.O., dated 20th November 1889, No 8059, Military.

From the Secretary to the Government of India, Military Department, to the Inspector-General of Military Works, dated Simla, the 7th November 1889, No. 2329-M.W. (Establishments).

In continuation of Military Department No. 2180-M.W., dated 25th October 1889, I am directed to request that you will be good enough to arrange as early as possible for the transfer of a Superintending Engineer for the charge of the Madras Command, Military Works. It is understood that the Superintending Engineer in question will, in terms of paragraph 3 of Military Department No. 2156-M.W. of 22nd ultimo, copy of which was forwarded with the Military Department letter above quoted, be Lieutenant-Colonel W. P. Tomkins, R.E.

Copy of the above forwarded to the Secretary to the Government of Madras, Military Department, for the information of His Excellency the Governor in Council.

(By Order.)

(Signed) S. GRANT, Major,
Offg. Asst. Secy. to the Govt. of India.

Order—dated 20th November 1889, No. 8059, Military.

Communicated to His Excellency the Commander-in-Chief and the Public Works Department, with reference to the Proceedings of Government cited in the margin.

No. 7561, dated 1st November 1889.
„ 7982, „ 16th „ „

(True Extract.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

From the Inspector-General of Military Works, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 18th November 1889, No. 3472-A.

With reference to Military Department letter No. 2156-M.W., dated 22nd October 1889 (a copy of which has been forwarded to me with Military Department letter No. 2180-M.W., of the 25th October 1889), regarding the transfer of military works in the Madras Presidency to this department, I have the honor to forward copy of a memorandum of instructions issued to Lieutenant-Colonel W. P. Tomkins, R.E., who will assume superintending charge of the new Madras Command, Military Works.

2. I have the honor to request the favor of your taking such action as may appear to you advisable to facilitate the transfer to the Military Works Department of the various works, stations, or divisions, now to be handed over.

3. I further request the favor of your opinion in regard to the mode of dealing with the accounts of the works and establishments transferred.

4. I suggest that, as regards works, the present system should continue until the end of the current financial year, funds for all works, repairs, &c., being provided out of the grants for military works already at the disposal of the Madras Government.

5. In regard to establishments, I am prepared to consider the advisability of paying them directly out of Military Works Department funds and receiving from the Madras Government a credit of 24½ per cent. from the date of your taking over each division.

Enclosure.

Copy of letter No 3393-A., dated 13th November 1889, from the Inspector-General of Military Works, to Lieutenant-Colonel Tomkins, R.E.

1. Public Works Department, Burma, No. 7821, dated 24th September 1889, to Government of India.
2. Secretary to Resident, Hyderabad, No. 150 M.W., dated 30th September 1889, to Government of India.
3. Government of India, Military Department, Nos. 2262-63 M.W., dated November 1889, to Chief Commissioner, Burma, and to Resident at Hyderabad.
4. Government of India, Military Department, No. 2156 M.W., dated 22nd October 1889, to Madras Military Department.

In continuation of my letter No. 3369-A, dated 11th November 1889, I have the honor to forward herewith copies of the marginally-quoted letters on the subject of the new Madras Command, of which you have been appointed Superintending Engineer.

2. As far as has hitherto been determined your new command will comprise the following divisions and stations:—

(1) *Madras Division.*—Madras including Fort St George and St. Thomas' Mount, and possibly the out-stations of Poonamallee, Vellore (Fort), Wellington, Trichinopoly.
(2) *Bangalore Division.*—Bangalore, Bellary, Belgaum.
(3) *Secunderabad.*—Secunderabad.
(4) *Rangoon.*—Including ordinary Military Works and special defences.
(5) *Mandalay.*—Mandalay.

3. It has not as yet been decided what Public Works Department officers are to be posted to the Military Works Department establishment, but it is probable that one Executive Engineer will be transferred from the Hyderabad Public Works Department and two from the Madras Public Works Department. In Burma the existing establishment of the Special Defence division at Rangoon will be taken over, and possibly an Executive Engineer may be transferred from the Burma Public Works Department for the Mandalay division. The remainder of the Engineer establishment will most probably be formed by the absorption of the attached officers of the Queen's Own Madras Sappers and Miners, and by the transfer of Military Works Department Assistant Engineers.

4. *Upper Subordinate.*—As far as may be practicable only military men should be taken over; if civilians have to be transferred, preference should be given to the older men on account of their experience of the stations.

Lower Subordinates.—As I consider this class of subordinates should consist mainly of non-pensionable employés, I request you will endeavour to accept as few transfers of permanent sub-overseers as may be possible, and as necessity occurs you can meet your requirements by the appointment of temporary men.

Office Establishment.—It will doubtless be necessary to relieve the Government of Madras and the Administrations concerned with these transfers of the services of certain clerks, and other persons engaged in clerical duties, also of inferior servants employed in offices, but in this you should be guided by the necessity of each case, bearing in mind that it will be preferable to keep the permanent portion of this establishment at as low a numerical strength as possible.

Petty Establishment.—The remarks in the preceding paragraph apply to the transfer of petty establishment. It can rarely be necessary to appoint storekeeper, artificers and messengers on the permanent strength.

5. *Stock and Materials.*—I wish to impress upon you the necessity of extreme care when taking over stock or materials.

Building materials of good quality, such as bricks, stone, tiles, &c., which are not liable to deterioration, will possibly have to be accepted, even though there may be no immediate prospect of being able to utilize them, but I am decidedly averse to receiving any large accumulation of small stores, metals, fuel, painters' stores, house fittings, or miscellaneous articles which may be on stock. I should prefer that your stores should be limited to what will in all probability be required on the works during the next year or at most within 24 months.

6. In order that there may be as little chance as possible of future complications, I wish you to take over charge gradually and to thoroughly enter into all the details of the transfer of each division. The order in which you accept charge of the various divisions will depend on the convenience of the Government with whom you are concerned. As you complete the taking over of each division, I request you will send to me a list of all classes of establishment you propose to maintain, dividing these lists into permanent and temporary. You should also forward a statement of the number of sub-divisions which will form each divisional charge.

7. *Accounts.*—You should at an early date give me your ideas as to the most expedient way of dealing with the accounts of the Command.

8. *Budget.*—The budget demands for the coming financial year should receive early attention.

9. In the case of Bombay, I have found it necessary to depute the Examiner of Military Works Accounts to confer with the Superintending Engineers there principally in regard to accounts and budget for next year, but generally to give them his assistance in any matters in which they may desire it. I shall now instruct the Examiner to proceed to Madras and subsequently to Burma to render you the like assistance. You will arrange your dates in direct correspondence with Colonel Oldham.

10. *Military Works system to be introduced.*—You should make arrangements to introduce as far as may be practicable the system of office work which prevails in the Military Works Department.

11. The question of the transfer of the Barrack Department should receive early attention. In Burma, as you will see from the correspondence herewith forwarded, the Chief Commissioner proposes to hand over the Barrack Department at Rangoon and Mandalay to you. As regards Madras and Hyderabad, I request you will inform me of the system at present in force as regards the Barrack Department and give me your opinion as to the advisability and feasibility of the transfer of the establishment and duties to the Military Works Department.

From the Examiner, Public Works Accounts, No. 1701, dated 28th November 1889.

Telegram from the Government of India, Military Department, No. 2558-M.W., dated 17th December 1889.

Order—dated 21st December 1889, No. 3645 W., Public Works.

Communicated to Superintending Engineers and the Examiner, Public Works Accounts, for information.

2. The Superintending Engineers, III, IV and V Circles, will arrange, in communication with Lieutenant-Colonel W. P. Tomkins, R.E., to hand over to the new department the military works and the grants and records connected therewith at the

stations named in para. 6 of the Government of India letter No. 1768-M.W., dated 4th September 1889, above recorded, and the Superintending Engineer, VI Circle, will transfer military works at Trichinopoly also if required.

3. Military works at all other stations in the Madras Presidency will continue in charge of the Public Works Department as at present.

4. On the formation of the Military Works Department, the establishment of the Public Works Department will be reduced by two Executive Engineers and six Upper Subordinates, and the present Presidency and Nilgiri divisions will be closed. The Imperial Civil works at Bangalore now in charge of the Public Works Department will be handed over to the Military Works Department, and all civil works at the Presidency town will be placed in charge of the Consulting Architect, in whose division the present civil works sub-division will be incorporated. The Government will be prepared to place at the disposal of the Military Works Department the services of two Executive Engineers and six Upper Subordinates when required, and the Superintending Engineer, V Circle, will arrange with Lieutenant-Colonel Tomkins with respect to the transfer of the Presidency Division office establishment to the new department.

5. It is proposed to form all civil works in the Nilgiri division into a sub-division and the Superintending Engineer, IV Circle, will report without delay whether such sub-division can more conveniently be attached to the Coimbatore or to the West Coast division. In any case the Wynaad sub-division will be transferred to the West Coast division.

6. With reference to paras. 4 and 5 of his letter of the 18th November 1889, the Inspector-General of Military Works will be informed that this Government do not consider that his proposals for the audit of expenditure on the works and establishments of the new department will answer, and that it will be preferable that the accounts should be rendered to the Examiner, Military Works Accounts, concurrently with the transfer of works.

7. Superintending Engineers concerned will facilitate in every possible way the transfer of works to the new department.

8. A copy of these Proceedings will be forwarded to the Inspector-General of Military Works and to the Government of India in the Military and Public Works Departments.

(Here enter No. 3646 W., dated 21st December 1889.)

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Inspector-General of Military Works.
" Surly. Select.

Endorsement—dated 21st December 1889, No. 3646 W., Public Works.

Forwarded.

(By Order.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To the Secretary to the Government of India,
Military Department.
" Secretary to the Government India,
Public Works Department.

Exd. J. Moses.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated December, 21st.

Recd.

Encl.

G.O., 21st Dec. 1889, Nos. 3645, 3646 W.

DECEMBER.

Military Works Department

Forwarding copy of Proceedings on correspondence relative to the formation of a — in the Madras Presidency.

6

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

From G. H. D. WALKER, Esq., Under-Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Calcutta, 7th January 1890, No. 38 G.

With reference to your Proceedings, No. 3392 W., dated the 28th November 1889, and connected correspondence regarding the transfer of military works in Madras to the Inspector-General of Military Works, I am directed to request that instructions may be now issued for the early transfer of the military works at Madras and Bangalore to the Military Works Department. In the first instance the officers now attached to the works and required to carry them on should be transferred with the works and should be notified in the Gazette as temporarily transferred to the establishment under the Inspector-General, Military Works.

2. The question of the officers to be permanently transferred from Madras in consequence of the reduction of work by this transfer will be subsequently considered. This course has been followed in the case of the Bombay Presidency and other administrations in which a transfer of works has taken place. The transfer of subordinates and other establishment between the Public Works and Military Works Departments should be arranged with the Inspector-General.

3. I am also to request that this office may be informed at an early date of the grants under Works, Repairs, Establishment and Tools and Plant that will be transferred to the Inspector-General of Military Works under these instructions.

ORDER—dated 23rd January 1890, No. 216 W., Public Works.

Instructions have already been issued in G.O., No. 3645 W., dated 21st December 1889, for the early transfer of military works to the Military Works Department, and the following notification will now be published in the *Fort St. George Gazette* :—

NOTIFICATION.

The services of the undermentioned officers are temporarily transferred to the establishment under the Inspector-General of Military Works :—

Mr. W. B. deWinton, Executive Engineer, 2nd Grade.
Honorary Lieutenant A. Milne, Assistant Engineer, 1st Grade.

2. The Superintending Engineers concerned will submit, with the least possible delay, statements showing the Military Works grants for the current official year, under Works, Repairs, Establishment and Tools and Plant, that are transferred to

the Military Works Department at the stations referred to in para. 2 of G.O., No. 3645 W., dated 21st December 1889.

3. A copy of these Proceedings will be forwarded to the Government of India with intimation that the statements of grants will follow on receipt.

(Here enter No. 217 W., dated 23rd January 1890.)

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To the Superintending Engineers, III, IV, V and VI Circles.
" Examiner, Public Works Accounts, with notification for publication.
" Military Department.
" Inspector-General of Military Works.

ENDORSEMENT—dated 23rd January 1890, No. 217 W., Public Works.

Forwarded.

(By Order.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

Encl. J. Moses.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of 1890 Madras.

PUBLIC WORKS.

Dated January, 23rd.

Recd.

Encl.

G.O., 23rd Jan. 1890, Nos. 216 W., 217 W.

JANUARY.

Military Works Department

Forwarding copy of Proceedings transferring certain officers to the —, and requesting Superintending Engineers to submit a statement of grants for military works transferred to that department.

8

24TH MARCH 1890, No. 945 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper :—

Proceedings of the Government of India, Public Works Department (General), dated Calcutta, 8th February 1890, No. 355 G.

Read—again Public Works Department Resolution No. 1450—72 G., dated 29th November 1881.

Read also—

Military Department No. 1815 M.W., dated 10th September 1889, and enclosures.
Army Circulars, India, dated 31st October 1889, Clause 175.
Public Works Department No. 3496—9 G., dated 12th December 1889, to Chief Commissioner, Burma; Agents, Governor-General, Rajputana and Central India; Resident, Hyderabad; Chief Commissioner, Central Provinces.
Public Works Department No. 3669 G., dated 20th December 1889, to Government of Bombay, and No. 38 G., dated 7th January 1890, to the Government of Madras.
Telegram No. G. 16, dated 13th January 1890, to Government of Bombay.
Telegram „ G. 17, „ 13th „ „ to Chief Commissioner, Burma.

Resolution—In accordance with the orders now read certain Public Works divisions and sub-divisions of the Presidencies of Madras and Bombay and of the Local Administrations of Burma, the Central Provinces, Rajputana and Central India, and Hyderabad, as noted in the schedule appended to this Resolution, have been transferred to the charge of the Inspector-General of Military Works, under the control of the Government of India in the Military Department.

2. This transfer will have effect from the 1st January 1890, except in the case of the works in Burma, which will be transferred with effect from the 1st April next. The transfer of the establishment of all classes will have effect from the same date.

3. The accounts of the transferred works will be, for the present, prepared and submitted as heretofore, but the military works will, from the dates named above, be debited with the actual cost of the establishment transferred with the works instead of with the percentage on the works expenditure. The method for calculating the charge on account of the services rendered by the Examiner's office establishment is being separately discussed.

Order—Ordered that the above Resolution be communicated to the Military Department, forwarded to the Local Governments and Administrations noted in the margin, and that it be published in the *Gazette of India*.

The Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab.
The Chief Commissioners of the Central Provinces, Burma, Assam and Coorg.
The Resident at Hyderabad.
The Agents to the Governor-General for Central India, Rajputana and Biluchistan.
The Accountant-General, Public Works Department.

(Signed) R. C. B. PEMBERTON, Colonel, R.E.,
Secretary to the Govt. of India.

To the Secretary to the Government of Madras,
Public Works Department.

Enclosure to Public Works Department No. 355 G. of 1890.

Works of certain Divisions and Sub-Divisions of the Public Works Department transferred to control of Military Department.

MADRAS.

Military Works at Madras, St. Thomas' Mount, Pallávaram, Poonamallee and Vellore.
Military Works at Bangalore, Wellington and Bellary.

BOMBAY.

Military Works at Bombay, Poona-Kirkee, Karachi, Hyderabad (Sindh), Jacobabad and Aden.

BURMA.

The Mandalay Garrison Division.
Rangoon Garrison Sub-Division, and Rangoon Special Defences.

CENTRAL PROVINCES.

Military Works at Kampti, Sitabaldi and Asirgarh.

RAJPUTANA AND CENTRAL INDIA.

Mhow Division with the Water Works and Civil Works, Nasirabad Sub-Division of the Military Works Division.

HYDERABAD.

Secundrabad Division.

Enclosure to Public Works Department No. 355 G. of 1890.

NOTIFICATION by the Government of India, Public Works Department, dated 8th January 1890, No. 63.

With reference to Public Works Resolution No. 355, dated the 8th February 1890, the services of the undermentioned officers of the lists under the Government of India are temporarily placed at the disposal of the Military Department for employment in the Military Works Department :—

Mr. R. H. Tickell, Assistant Engineer, 1st grade, Rajputana and Central India.
Mr. Rajeswar Mittra, Assistant Engineer, 1st grade, Rajputana and Central India.
Major H. Fox, R.E., Executive Engineer, 1st grade, Hyderabad.
Mr E. G. Stanley, Assistant Engineer, 2nd grade, Hyderabad.
Mr. W. Causley, Honorary Assistant Engineer, 1st grade, Hyderabad.

Telegram from the Secretary to the Government of India, Public Works Department, dated 19th March 1890, No. 139 G.

ORDER—dated 24th March 1890, No. 945 W., Public Works.

Communicated to Superintending Engineers concerned in continuation of G.O., No. 216 W., dated 23rd January 1890.

2. The Resolution will be republished in the *Fort St. George Gazette*.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To Superintending Engineers, III, IV and V Circles.
To the Examiner, Public Works Accounts.
" Military Department.
" Superintendent, Government Press.

Exd L. Passaigne.
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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated March, 24th.

Recd. *Encl.*

G.O., 24th Mar. 1890, No. 945 W.

MARCH.



Military Works Department

Resolution of the Government of India transferring certain Public Works divisions to the charge of the Inspector-General of Military Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper :—

G.O., dated 28th April 1890, No. 2939, Military.

Read—the following papers :—

Memorandum from the Secretary to Government, Military Department, to the Superintending Engineer, Madras Command, Military Works, dated Ootacamund, 15th April 1890, No. 2640, requesting to be furnished with a list showing the several stations in the Madras Presidency at which Military works have been taken over from the Public Works Department, and the dates on which they were respectively made over.

From the Superintending Engineer, Madras Command, Military Works, to the Secretary to Government, Military Department, dated Ootacamund, 21st April 1890, No. 910.

In reply to your memo. No. 2640, dated 15th instant, I have the honor to submit a list of the stations in the Madras Presidency at which Military buildings have been taken over by the Military Works Department, with the dates of transfer :—

Fort St. George and Madras ...	9th January 1890.
St. Thomas' Mount	20th March 1890.
Pallávaram	
Poonamallee	
Wellington	7th March 1890.
Vellore	11th March 1890.
Arkónam	
Bangalore	1st February 1890.
Hosúr	
Hunsur	
Bellary	25th March to 2nd April 1890.
Rámandrug	
Guntakal	
Gooty	
Sultanpur	

Order—dated 28th April 1890, No. 2939, Military.

Recorded.

(True Extract.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

Order—dated 12th May 1890, No. 1340 W., Public Works.

Recorded.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To the Superintending Engineers, III, IV and V Circles.
" Examiner, Public Works Accounts.

Exd. P. L. Pereira.
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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated May, 12*th*.

Read. *Enct.*

G.O., 12th May 1890, No. 1340 W.

MAY.

Military Works Department

List of stations in the Madras Presidency at which Military buildings have been taken over by the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper:—

From Colonel E. H. EYRE, Officiating Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 24th July 1890, No. 96 M.W.

I am desired, by the Commander-in-Chief, to solicit the orders of Government, as to the department to be applied to, in view to the carrying out of any repairs that may be necessary to be effected to the magazine recently constructed at this station, by Sapper labor, under the orders of Government, marginally noted, for the storage of powder, &c., required for saluting purposes, and for the small arms ammunition of the Nilgiri Volunteer Rifles, and also as to the source from which funds are to be provided for the execution of such repairs.

G.O., No. 4369, dated 4th July 1889.
G.O., „ 4842 „ 22nd „ „
G.O., „ 7883 „ 12th November 1889.
G.O., „ 1488 „ 27th February 1890.

2. As from the accompanying copy of a letter * from the General Officer Commanding Southern District, it would appear that the Superintending Engineer, Madras Command, Military Works, has decided that the magazine in question is not in charge of the Military Works Department, I am to suggest that the Public Works Department, which has a sub-division at this station, may be required to take charge of the battery and magazine, and to carry out all such repairs, &c., as may from time to time be necessary thereto.

* No. B-1955, dated 16th July 1890.

ENCLOSURE.

From Brigadier-General E. FAUNCE, C.B., Commanding Southern District, to the Quartermaster-General, Madras Army, dated Wellington, 16th July 1890, No. B-1955.

I have the honor to inform you that on intimation being received from the Officer Commanding Nilgiri Volunteer Rifles that the magazine at Ootacamund leaked, the Executive Engineer, Military Works, was addressed in view of having the same repaired, but a reply has been received that the Superintending Engineer, Military Works, Madras Command, has decided that the Saluting Battery Magazine at Ootacamund does not belong to his department. I therefore request orders on the subject.

No. 4834, Military.

Referred to the Public Works Department for favor of opinion, with reference to the suggestion in para. 2 of the Quartermaster-General's letter.

OOTACAMUND,
25th July 1890.

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

No. 537 D.

Returned to the Military Department with intimation that the charge of military works at Ootacamund can be undertaken by the Public Works Department under the conditions which prevail at other stations in which there are military works, and in which the Military Works Department is not in operation.

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
28th July 1890. Ag. Joint Secy. to Govt., P.W.D.

No. 4903, Military.

Approved and transferred to the Public Works Department for favor of issue of the further necessary orders.

OOTACAMUND, (Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
30th July 1890. Secretary to Government.

ORDER—dated 6th August 1890, No. 2137 W., Public Works.

Ordered accordingly that the charge of military works at Ootacamund be retained by the Public Works Department. The Superintending Engineer, IV Circle, will report whether the current year's grant to the Coimbatore division under Imperial Military Repairs will be sufficient to meet the cost of the maintenance of such works, and if not, what additional allotment will be required.

(True Extract.)

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

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Military Department.

Exd. J. Moses.
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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated August, 6th.

Read. *Encl.*

G.O., 6th Aug. 1890, No. 2137 W.

AUGUST.

Military Works at Ootacamund

The retention by the Public Works Department of the charge of —, ordered, and the Superintending Engineer, IV Circle, directed to report regarding funds for the maintenance of such works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper:—

From Brigadier-General E. H. EYRE, Quartermaster-General, Madras Army, to the Secretary to Government, Military Department, dated Ootacamund, 2nd November 1891, No. 2426 M.W.

With reference to Proceedings of Government No. 198 of 10th January 1890 (Public Works Department No. 3645 W. of 21st December 1889), I am desired by the Commander-in-Chief to submit, for the favorable consideration and orders of Government, the marginally-noted correspondence containing a proposal that all the military stations comprised in the Madras Presidency now administered by the Public Works Department be transferred to the control of the Military Works Department and to state that, for the reasons therein adduced, His Excellency recommends that Government may be pleased to accord their approval to the above proposal, as he considers it very desirable that all stations in this command should be brought within the sphere of the operations of the Military Works Department and the present dual system of control over military buildings thus done away with.

Letter No. 8202 of 2nd October 1891, with two enclosures, from Chief Engineer, Military Works.
Quartermaster-General's minute No. 2261 M.W. of 8th October 1891 to Chief Engineer, Military Works.
Chief Engineer, Military Works, No. 8626 of 20th October 1891.

2. Should the Madras Government be pleased to accord their general sanction to the above proposals, it will be communicated to the Director-General, Military Works, in view to a detailed scheme for giving effect to the same being submitted for the orders of the Government of India.

ENCLOSURES.

From Colonel B. LOVETT, R.E., Chief Engineer, Military Works, Madras Command, to the Quartermaster-General, Madras Army, dated Ootacamund, 2nd October 1891, No. 8202. (1)

[*Formation of a new Military Works division.*]

I have the sanction of the Director-General contained in his No. 4110 A., dated 10th September, to lay certain proposals for a redistribution of duties in this command for the approval of His Excellency the Commander-in-Chief and the consideration of the Government of Madras before they can be submitted by the Director-General of Military Works for the orders of the Government of India. I have therefore the honour to report that, after inspecting the Madras Division of Military Works, which comprises the Madras and Southern Military districts, I concur with my predecessor Colonel Tomkins in thinking it too extensive and unwieldy to be administered with success by one Executive Engineer, however much his staff may be increased.

2. Matters that require personal attention by the Executive Engineer to the exclusion of his assistants are so numerous in connection with one military district that when two are under his administration attention cannot be given to the work that is expected. For instance, none of the stations of Calicut, Cannanore and Malapuram, at each of which there is a detachment of British troops and at Cannanore a fort, have yet been visited by the Executive Engineer, Madras Division. It is simply impossible for him to look after works at these stations on the West Coast without prejudice to his work at Wellington and on the East Coast. What I propose for the

approval of His Excellency is that the Madras Division Military Works should be confined to the Madras Military district and a new division created to be called the Southern Division Military Works. The head-quarters would conveniently be at Wellington not only on account of climate and central position but also because it is the head-quarters of the military district. It is there that our chief expenditure will take place and it would be a convenient station for the manufacture of barrack furniture for use at Wellington, Malapuram, Calicut and Cannanore. The Executive Engineer, Southern Division Military Works, would also have to look after the military staff buildings at Ootacamund and other stations, such as Trichinopoly. The financial result of this proposal is that the establishment would cost Rs. 20,170 per annum and the probable expenditure per annum on all heads, unless any specially large works were sanctioned, would be about Rs. 1,45,000. The proportion of establishment to expenditure would thus stand at about 14 per cent.; but the Madras Division establishment would be reduced by Rs. 10,000 which is the amount of the present establishment at Wellington administering an expenditure of Rs. 71,000, so that it will be seen that the proportion of establishment to expenditure remains about the same. It appears from page 2 of Madras Military budget, 1891–92, that the allotment of Rs. 16,600 made by the Director-General pays for the establishment that administers the Military Works in charge of the Public Works Department at the stations which are detailed on page 8; all these are in the Madras and Southern Military districts. Hence our proposal to take over the work at these stations for an extra 10,000 to our establishment exhibits an economy of Rs. 6,000. It is not impossible but that we may find that in actual working a greater number of native subordinates may be required than I have assumed owing to the great distances between the various military stations and their remoteness from railway lines, and, consequently, the establishment may involve a greater sum than Rs. 10,000, but I think that, if the proposals now submitted are accepted, the Executive Engineers of Madras and the Southern Divisions will be able to cope with the work at military stations now performed by the Public Works Department in addition to what is already in the hands of the Executive Engineer, Madras.

3. Attached is a detailed statement from which the totals mentioned above are derived.

No. 2261 M.W. (2)

It is assumed that, under the above proposals, the Madras Division Military Works will take over all the military stations comprised in the Madras Military district, now administered by the Public Works Department, *e.g.*, Berhampore and Vizianagrum. Please state if this assumption is correct.

2. No mention is made in the above letter of the station of Mangalore in the military district of Belgaum, which, if it is to continue to remain under the control of the Public Works Department, will be the only Indian station of this command occupied by troops, not in charge of the Military Works Department, should his proposals be sanctioned by the Government of India. The Chief Engineer, Military Works, is accordingly requested to favour this office with his opinion as to whether this station could not also be taken over by the Military Works Department and form a portion of the Military Works division of Belgaum, thus bringing all the military stations in India occupied by Madras troops under the administration of one department.

3. With reference to the proposal that furniture required for stations in the Southern division should be made up at Wellington, his opinion is requested as to whether such an arrangement would not involve increased expenditure owing to the cost of conveying material, &c., for manufacture up the ghât and of furniture between Wellington and Mettupálaiyam.

4. Information should also be afforded as to whether on the Military Works Department taking over the military buildings at Ootacámund and the other stations referred to, it is proposed to maintain a Military Works establishment at each such station for carrying out repairs, &c.

Please return.

(By Order.)

OOTACAMUND,
8th October 1891.

(Signed) E. H. EYRE, Brigdr.-Genl.,
Quartermaster-General.

To the Chief Engineer, Military Works.

Memo. from Colonel B. LOVETT, R.E., Chief Engineer, Military Works, Madras Command, dated Ootacamund, 20th October 1891, No. 8626. (3)

[*Quartermaster-General.*]

I would propose as suggested in your memo. No. (2) that the Military Works Department should take over the whole of the military stations in the Madras Presidency.

This will involve an annual expenditure of Rs. 4,320 for establishment in addition to the sum of Rs. 20,172 stated to be necessary in memo. No. (1) for the Southern division.

The additional establishment required is shown in the accompanying table:—

Name of executive division.	Name of station.	Proposed establishment.	Pay	
			Per mensem.	Per annum.
			Rs.	Rs.
Belgaum	Mangalore	1 overseer	80	
	Berhampore	1 upper subordinate	100	
Madras	Vizianagrum, Vizagapatam	4 temporary sub-overseers	140	
	Sámalkóta ..	1 clerk	40	
		Total ..	360	4,320

2. As regards the question of the establishment of a depôt for making up and repairing barrack furniture at Wellington, the matter will be carefully gone into if the present proposals are sanctioned; but generally speaking it is found more economical to have these articles made on a large scale and issued to out-stations than making up locally under inefficient or insufficient supervision.

3. Should the Government of India approve of these proposals, a Military Work establishment will be kept up at all the stations referred to for carrying out repairs, &c.

No. 6283, Military.

Transferred to the Public Works Department for consideration and disposal.

FORT ST. GEORGE,
10th November 1891.

(Signed) H. R. HOPE, Brigdr.-Genl.,
Secretary to Government.

ORDER—dated 26th November 1891, No. 3178 W., Public Works.

His Excellency the Governor in Council has no objection to the proposal that all the Military Works in the Madras Presidency now in charge of the Public Works Department be transferred to the control of the Military Works Department.

2. The necessary action will be taken by the Superintending Engineers of the I, IV and VI Circles in communication with the Chief Engineer, Military Works, Madras Command.

(True Extract.)

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

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

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated November, 26th.

Read.

Encl.

G.O., 26th Nov. 1891, No. 3178 W.

NOVEMBER.

Military Works in the Madras Presidency

Orders directing that all — now in charge of the Public Works Department be transferred to the control of the Military Works Department.

PUBLIC WORKS SECRETARIAT MADRAS

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper:—

G.O., dated 9th May 1892, No. 2996, Military.

Read—the following paper:—

From the Quartermaster-General, Madras Army, to the Secretary to Government, Military Department, dated 4th May 1892, No. 891 M.W.

Referring to Proceedings of Government, Military Department, No. 7041, dated 9th December 1891, I am desired to forward, for the information of Government, the accompanying copy of a letter * from the Government of India, Military Department, to the Director-General of Military Works, from which it will be seen that that Government deems it expedient to defer, for the present, the consideration of the question of the transfer of Military Works in the Madras Presidency now in charge of the Public Works Department to the control of the Military Works Department.

* No. 837 M.W., dated 18th March 1892.

ENCLOSURE.

From the Government of India, Military Department, to the Director-General of Military Works, dated 18th March 1892, No. 837 M.W.

I am directed to acknowledge the receipt of your letter No. 572 A., dated 16th February 1892, submitting proposals in connection with a re-distribution of divisions in, and an extension of, the Madras Command, Military Works, and, in reply, to state that the Government of India deem it expedient to defer consideration of this question.

Order—dated 9th May 1892, No. 2996, Military.

Communicated to the Public Works Department, for information, with reference to G.O., No. 3178 W., dated 26th November 1891.

(True Extract.)

(Signed) H. R. HOPE, Brigdr.-General,
Secretary to Government.

ORDER—dated 12th May 1892, No. 1473 W., Public Works.

Communicated to the officers concerned with reference to G.O., No. 3178 W., dated 26th November 1891, action on which should be deferred.

(True Extract.)

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

To Superintending Engineers.
„ the Examiner, Public Works Accounts.

Exd. A. D. Xavier.
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BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1892} Madras.

PUBLIC WORKS.

Dated May 12th.

Read. Encl.

G.O., 12th May 1892, No. 1473 W.

MAY.

Military Works

Proceedings, Military Department, deferring, for the present, the consideration of the question of the transfer of — in the Madras Presidency, now in charge of the Public Works Department, to the control of the Military Works Department, communicated to officers concerned with instructions.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Brigadier-General E. H. EYRE, Quarter Master General, to the Secretary to Government, Military Department, dated Ootacamund, 14th December 1892, No. 2658 M.W.

As a measure involving reduction of expenditure, I am desired by the Commander-in-Chief, with reference to Proceedings of the Madras Government, No. 6943, of the 2nd ultimo, to forward, for the favorable consideration of the Madras Government and for submission to the Government of India, copies of the marginally-noted correspondence containing a recommendation, in which His Excellency generally concurs, for the taking over by the Military Works Department of the few remaining stations in the Madras Presidency which are still administered by the Public Works Department.

* Report by Lieutenant Stokes-Roberts, dated 22nd February 1892.
Minute No. 9494, dated 1st December 1892, from Chief Engineer, Military Works.

2. Although in March last the Government of India decided that the consideration of this question should be deferred, His Excellency is of opinion that the time has now arrived when the proposals should again be brought to the favorable notice of that Government, not only because, as pointed out by the Chief Engineer, Military Works, they will result in an annual saving to the State of about Rs. 1,100, but also for the reason that the adoption of the measure will do away with the inconvenience attaching to the present very undesirable system of a dual control over expenditure on Military works in this presidency.

3. His Excellency recommends therefore that the advantages to be gained by the proposed transfer may be brought prominently to the notice of the Supreme Government in view to its sanction being accorded to the proposals formulated by the Chief Engineer, Military Works.

4. With reference to para. 8 of the Chief Engineer, Military Works' Minute, it is understood that the question of the duty of supply and repair of barrack and hospital furniture by, and the transfer of the barrack establishment to, the Military Works Department is now under the consideration of the Government of India.

ENCLOSURES.

From the Chief Engineer, Madras Command, Military Works, to the Quarter Master General, Madras Army, dated Ootacamund, 1st December 1892, No. 9494.

I enclose for your information a report (return requested) drawn up by Lieutenant E. R. B. Stokes-Roberts, R.E., regarding the military stations in the Southern district, Madras Presidency, drawn up in February last.

2. I concur generally in the suggestions put forward in the report and am of opinion that the procedure with regard to the maintenance of military works in the Native State of Travancore should not be interfered with at all events for the present; the stations of Quilon and Trichur in the Native State of Travancore are too remote to allow of efficient supervision by the Executive Engineer of the Southern division, a new Military Works Executive division whose head-quarters I would suggest should be at Wellington.

3. As regards the estimated cost of establishment given at page 9 of the report I concur generally except that I am of opinion that a lower subordinate at a monthly salary of Rs. 50 will be sufficient for the requirements of Trichinopoly.

4. The following table represents, therefore, the probable cost of establishment in the proposed new Southern division and of the extra establishment required in the Madras and Belgaum divisions in order to complete taking over charge of all the military stations within the limits of those commands now under the charge of the Public Works Department:—

Executive Division, Military Works Department.	Sub-division.	No.	Designation.	Pay per mensem.	Pay per annum.
				Rs.	Rs.
Madras	Bellary, Vizianagram, Vizagapatam, Samalcottah	1	Upper subordinate	100	
		4	Temporary sub-overseers	140	3,360
Belgaum	Mangalore*	1	Clerk	40	
		4	Overseer	80	960
Southern Division.	Wellington	1	Executive Engineer, 4th grade	750	
		1	Upper subordinate	100	
		1	Accountant, 4th grade	140	
		1	Draughtsman	100	
		1	Head clerk	70	
		1	Clerk	40	
		4	Peons at Rs. 7	28	
	West Coast	2	Upper subordinates	200	
		1	Lower subordinate	100	22,656
		1	Clerk	50	
		1	Mistries at Rs. 30	30	
	Trichinopoly	1	Lower subordinate	80	
		1	Clerk	50	
		1	Mistry	35	
		..	Sub-divisional allowance	70	
				65	
			Total	..	26,629

* This station might perhaps more suitably be placed under the charge of the Executive Engineer, Southern Division.

5. The total establishment charges necessary in order to give effect to the proposal that this department should take charge of all the military works in this Presidency with the exception of those in the Native State of Travancore will, therefore, amount to Rs. 26,629; meanwhile a saving of Rs. 11,712 as marginally noted will be made in the establishment charges of the existing Madras division, making the total extra establishment grant required Rs. 14,916 or Rs. 1,784 less than the amount now allotted by the Government of India to the Madras Public Works Department for establishment on military works now being carried out by them.

		Rs.
One Executive Engineer	.. .. ..	750
One upper subordinate	.. .. ..	100
Two clerks at	.. .. ..	80
	.. .. ..	80
Pay per annum	..	9,756
... annum	..	11,712

6. The total expenditure on military works at Quilon and Trichur does not appear to have exceeded Rs. 3,000 in 1889-90; the charges for establishment at 22 per cent. would, therefore, not exceed Rs. 660 and the proposals formulated above accordingly show a saving of about Rs. 1,100 annually on the present establishment charges.

7. I would submit that the present is a most opportune time for action to be taken in this matter owing to the proposal shortly to hand over all the Burma stations to the Public Works Department; the arguments against the dual control of Military Works Department and Public Works Department over military buildings in Burma apply with equal force against the same system in India.

8. As regards barrack and hospital furniture we can work as cheaply as the commissariat and have the advantage of having experienced officers accustomed to the work of supply as carried out at other stations in Northern India. At Secunderabad, for instance, we have a workshop replete with all machines, tools, &c., required for wood-work and which stands idle from want of work.

I am of opinion the Barrack establishment might be utilized far more than they are at present; in fact I know from Barrack Masters who were formerly under the Military Works and have changed to stations under the Commissariat Department that they say they have nothing to do.

Now one of the great functions of the Barrack Master is the allotment and proper care and inspection of quarters.

This very duty now devolves on Executive Engineers to the detriment of more strictly professional work. The duties of the Barrack Master, as regards quarters, repairs, &c., being so intimately concerned with the duties of the Executive Engineer, and the supply and repair of furniture being of a character requiring a knowledge of workshop management, I am confident nothing but good would result from a speedy transfer of the control of the Barrack Department to the Executive Engineers.

SOME notes regarding the Military Stations in the Southern District, Madras Presidency.

Stations in the Command.—Exclusive of Wellington the following Military stations are under the command of the General Officer Commanding Southern District:—

Malapuram.	Quilon.
Calicut.	Trichur.
Cannanore.	Trichinopoly.

Notes concerning the military buildings, roads, &c., in each of the above stations, except Trichinopoly which has not been visited by *the writer, are attached.*

Stations in the Native State of Travancore.

Quilon and Trichur.—Of the above out-posts, Quilon and Trichur are situated in the Native State of Travancore and repairs to military buildings, &c., and all original works therein are carried out by the State.

State Public Works Department.—Public Works Department, the executive and subordinate officers of which department receive a percentage (in the case of original works this percentage is 22, disbursed in the proportion of 10 to the Chief Engineer, 7 to the Executive Engineer and 5 to the Overseer) on the estimates prepared by the Government Public Works Department as payment for the extra work performed by them.

As the system set out above seems to work well and economically on account of no Government establishment being required and as these two stations are remote from the railway, there would appear to be no necessity for them to be absolutely taken over by the Military Works Department, but on the formation of a Southern District, Military Works, the procedure might be somewhat as follows:—

Original Works.—Of the few original works likely to be required in connection with the Native Infantry lines, the estimates could be prepared in the office of the Executive Engineer, Military Works, in consultation as regards rates and materials with the local State executive and then approved and sanctioned in the ordinary manner by the Chief Engineer, Madras Command, Military Works, or other authority; the work could then be undertaken by the local engineers, who would make all arrangements as to contractors, preparation of bills, &c., but it would at all times be open to inspection by Government Engineers. Under these circumstances, a lower percentage than before mentioned should suffice for supervision.

Repairs.—The repair estimates for roads and military buildings, such as hospitals, guard rooms, &c., could be prepared as above by the Executive Engineer, Military Works, and percentage paid to the State Engineer for carrying them out. A percentage to those who actually carry out and supervise the works seems only necessary.

Provision of funds.—All funds for expenditure in these two stations should be obtained from the Chief Engineer, Madras Command, Military Works, in order that he may be kept informed as to what works are required or are being carried out.

Establishments.—All the Military stations along the West Coast being small and in fact mere out-posts, the cost of their upkeep by the Military Works would be small. From actual observation the following appeared to be the establishment maintained by the Public Works Department for looking after the cantonments themselves:—

Stations.	Upper subordinate.	Lower subordinate.	Clerk.	Mistry.
Malapuram	* ..	1	..	1
Calicut	..	1	..	1
Cannanore	1	..	1	1
Total ..	1	2	1	3

One Barrack Sergeant is employed at Cannanore but has practically nothing to do, as he is a mere go-between the troops and the Commissariat Department.

Calicut.—Putting aside for the moment the probability of the Barrack Department being made subordinate to the Military Works, the establishment now maintained by the Public Works Department would suffice for the requirements of the Military Works except that an upper instead of a lower subordinate should be stationed at Calicut, for at present as the headquarters of the Executive Engineer are in the station, the preparation of estimates and execution of repairs are carried out under his supervision. If, however, the furniture is handed over to the Military Works, it would be necessary to station one Barrack Sergeant and a clerk at Calicut, which is on the railway and altogether more central than Cannanore, though the latter has the advantage of a large number of empty buildings which could be used as workshops and stores. In this case a lower subordinate would be sufficient for the ordinary work at Calicut, as the Barrack Sergeant could carry out barrack inspections and give help to the Sub-Overseer in the event of any special estimate or information being required. It should be mentioned that owing to the great distances by rail and bullock cart and large risks of breakages by the latter, it would probably not pay to manufacture furniture at Calicut and send it up to Wellington, overlooking for the moment the disadvantages of having articles made up away from the direct supervision of the Executive Engineer.

Trichinopoly.—One upper subordinate, one clerk and one maistry would from all accounts be quite sufficient to keep pace with Military Works requirements at Trichinopoly.

Expenditure on Establishment.—The total expenditure on establishments in the Southern District excluding Wellington would thus be as follows:—

West Coast.

	Rs.
Two upper subordinates (Sergeants) at Rs. 160	320
One lower subordinate at Rs. 50	50
One clerk at Rs. 25	25
Three maistries at Rs. 20	60
Travelling allowance	100
Sub-divisional allowance	60
Total ...	615

Trichinopoly.

	Rs.
One lower subordinate at Rs. 50	50
One clerk at Rs. 25	25
One maistry at Rs. 20	20
Sub-divisional allowance	45
Travelling do.	30
Total ...	170
Total cost per mensem ...	785

The taking over of the barrack furniture would only entail one additional clerk to the above.

Distances from Wellington.—Taking Wellington as the head-quarters of the proposed new division, the distances are as follows:—

	Malapuram.	Calicut.	Cannanore.	Trichinopoly.	Wellington.	Railway.
	miles.	miles.	miles.	miles.	miles.	miles.
Wellington	33	33	66	227	33	33
Malapuram	..	0	34	194	33	17
Calicut	0	..	..	160	33	Nil.
Cannanore	34	34	..	126	33	39
Trichinopoly	194	160	126	..	33	Nil.

N.B.—On arriving at Calicut on the afternoon of one day, it would be necessary to wait until the next morning before starting in the "transit" for the 59 miles journey by road. Malapuram is 17 miles from the Railway at Tirur. It took 4 days to reach Quilon from Cannanore in a coasting steamer.

Quilon is 48 hours by boat in the backwater from Trichur which, in turn is 21 miles by a very bad road (bullock carts only available) from the railway to Ekersaur.

NOTES ON MALAPURAM.

Situation and surrounding country.—Malapuram is situated 17½ miles north-east of the Railway station of Tirur and 30 miles to the south-east of Calicut at a height of about 500 feet above sea level. The surrounding country consists of a series of small plateau intersected by paddy covered valleys, and the hill on which the cantonment is placed is surrounded on three sides by a bend of the river Nurady.

Subordinate in charge.—The subordinate in charge of the cantonment is Mr. S. B. Rebelo, Overseer, 1st grade, who has only been in the station for about two months; his residence is close to the hospital.

Cantonment.—The cantonment is approximately 800 yards × 300 yards in area and has a well-defined boundary consisting of laterite pillars numbered in succession.

Troops.—One hundred and fifty men from the Regiment stationed at Wellington are told off to garrison the place.

Buildings.—The buildings, which are all named and numbered and entered in a printed list, consist for the most part of three large barracks for 50 men each with subsidiary buildings and of two blocks of married quarters for 24 men in all.

Single men's barracks.—The single men's barracks (constructed in 1884) are lofty, well ventilated, and are protected on each side by a broad verandah.

Walls.—The walls are of laterite 1½ feet thick and are lime plastered inside and pointed outside.

Roofs.—The roofs are supported on king post trusses 10′ apart and consist of Mangalore tiles on ½″ venteak planking.

Floors.—The floors are asphalted.

Married men's barracks.—The two blocks of married quarters were constructed in 1858–59 and have country tiled roofs and cement plastered floors; they are much in excess of requirements and two quarters have been misappropriated for the Telegraph Department.

Hospital.—The hospital is a fine, roomy building and will contain beds for eighteen men, two women and four children. One end of the building has a terraced roof surrounded by a low parapet wall defensible against musketry (the idea of Lord Roberts).

Officer's quarters.—In addition to the men's buildings there are two blocks of quarters each for two officers; ceilings and floors boarded.

Theatre.—There is also a small theatre which is never used.

Institute.—Institute buildings and arrangements are very complete.

Subsidiary buildings.—Subsidiary buildings seem complete in every respect and are connected to the main buildings by means of covered passages.

Commissariat buildings.—With the exception of the mule and bullock shed referred to below, the Commissariat buildings (bakery, slaughter-house, granaries, elephant shed, sick cart shed, &c.) are complete.

Rifle range.—The rifle range only extends up to 900 yards, the firing platform for which is on the roof of the hospital and can therefore only be occasionally used. The range in its present position cannot be increased; a new range might possibly be found along the river bed.

Bathing.—The men can bathe in the river during the hot weather, but during the rains there is no place for them to use.

Gymnasium.—There is no gymnasium, but the theatre or one of the old married quarters might easily be misappropriated.

Rainfall.—The rains continue from about June to October and the average rainfall is 100 inches. The hot season extends from March to the end of May.

Water-supply.—There are five wells in cantonments, one of which is for drinking water and is carefully protected by means of a wall and a cover from all contamination, the latter well yields throughout the hot weather, but the others fail and washing water has to be brought up from the river.

Roads.—The roads are entirely of laterite and are about 1,000 yards in length. No permanent coolies are employed, repairs being carried out by contract when required.

Lightning-conductors.—Lightning-conductors were tested about 3 months ago. There are, however, no conductors at all to the magazine in which dynamite is stored.

Repairs.—The sums sanctioned for repairs this year are—

	Rs.
British Infantry lines	2,220
Commissariat lines	500
Roads	190

The first sum seems a little high.

Contractors.—Messrs. Lewes and Brothers, who live in Malapuram, are said to be good contractors and seem to have all the work to themselves. A little outside competition would no doubt be wholesome.

Works in progress.—The only work in progress beyond repairs is the re-roofing of the Apothecary's (1st grade) quarters which are situated near the hospital; in the meantime according to the account of the Medical officer in charge, the Apothecary has *himself* to pay Rs. 20 per mensem for a private bungalow, which has been hired for him.

Sanctioned works.—An estimate has been sanctioned for Rs. 2,824 for the construction of sheds for 12 bullocks and 10 mules, but a site for the building has not yet been definitely decided upon.

Proposed works.—An officers' mess is badly required and it is believed that an estimate has been prepared.

Some local materials.—An unlimited supply of laterite can be obtained within a mile of barracks.

So-called granite (blue gums) comes from a distance of two miles.

Some rates (obtained from the Overseer).—Ironwork As. 2 lb. (obtained from Calicut) cheap. Laterite Rs. 18, 100 cubic feet. Teakwood work Rs. 3-8-0 to 4-4-0 cubic foot. Kroolwood Rs. 1-12-0 cubic foot. Average rate for a cooly As. 6 to As. 4. Average rate for a mason or blacksmith 10 annas to 1 rupee. Mangalore tiles on $\frac{1}{2}$" venteak boards Rs. 27, 100 square feet. Sectioning and ramming 4" laterite on roads Rs. 18, 100 square feet.

Furniture.—Furniture when required is obtained from Calicut.

Repairs to furniture are carried out by contract under the departmental supervision of the Commissariat.

NOTES ON CALICUT.

Calicut town.—The town of Calicut is situated on the West Coast and is the terminus of the Madras Railway.

Barracks.—The barracks are built on a small hill about three miles from the town.

Cantonment.—The cantonment includes only about 38 acres Government and 11 private land.

Boundaries.—The boundary is well defined by granite pillars marked P.W.

Subordinate in charge.—Mr. L. A. Barbosa, a Temporary Overseer, 3rd grade, has been in charge of the station for the past two years; he lives three miles away from his work in Calicut town.

Troops.—One hundred men from the regiment at Wellington are stationed here.

Buildings.—The single men's barracks are old, but in fair order. One barrack is the old Collector's house, and some of the rooms are in consequence only big enough for four or five men. The men are very crowded at present and a new barrack for 30 men is being constructed so as to relieve the pressure.

Commissariat buildings.—The Commissariat buildings (bakery, slaughter-house, mule, bullock and elephant sheds) have been built since 1887 and are in good order.

Officers' quarters.—There are three officers' quarters, one for the Commanding Officer, one for a Subaltern, and the other for the Doctor, but all are in a bad state of repair.

Hospital.—A good hospital will accommodate 12 men, 1 woman and 1 child.

Walls of buildings.—Walls of buildings are of laterite, plastered with lime mortar.

Roofs.—All roofs are covered with country tiles except the Commissariat buildings which have Mangalore tiles (elephant shed is thatched).

The roof trusses are in most cases of a very elementary pattern, consisting merely of a very heavy tie-beam with one or three vertical uprights.

Floors.—Internal floors are beetled and verandahs are asphalted.

Married quarters.—There are fifteen married quarters, of which some are misappropriated as Prayer Room, Sergeants' Mess, Commissariat Sergeant's quarters and Commissariat store.

Subsidiary buildings.—The subsidiary buildings are sufficient in number and size, but none of the latrines have doors in front of the seats.

The latrine of No. 1 barrack almost adjoins the cook-house.

A dry-earth store exists.

The subsidiary buildings are connected to the main buildings by covered passages.

A very large shed, constructed of teak logs with a thatched roof and walls of bamboo matting, was built as a gymnasium, but is now in a dangerous condition and should be removed as it is quite close to the barracks.

Another shed, situated between the barracks and the hospital, is used as a church.

Numbering of buildings.—The buildings all have name boards, but are not numbered.

Repairs.—Repairs are carried out by Narain Nair, who is said to be a good contractor. The repairs estimates amount to Rs. 2,800 which includes Rs. 600 for whitewashing and Rs. 378 for tiling tiles.

Some rates.—Ironwork As. 2 to As. 4 per lb. Laterite in lime Rs. 18 to Rs. 20, 100 cubic feet. Granite three lines dressed Rs. 3-8-0 cubic foot. Teakwood work from Rs. 3-12-0 to Rs. 4-4-0 cubic foot. Mangalore tiles on $\frac{1}{2}$" cedarwood planking Rs. 30, 100 square feet. 1½" teak flooring Rs. 85, 100 square feet. 1½" panelled and glazed doors Rs. 1-4-0 square foot. Whitewashing As. 2-6, 100 square feet.

Wages.—Man cooly As. 2 to As. 4; mason, 1st class, As. 13; mason, 2nd class, As. 10; blacksmith, 1st class, ditto blacksmith, 2nd class, As. 8.

Timber used in construction.—Teak, venteak, cedar (white and red), irrumbogum, karamaroda and irool.

Roads.—The cantonment roads are only 2,000 feet in length and repairs are carried out when required. The mentioned estimate for repairs amounts to Rs. 200.

Laterite metal is obtained from quarries within a mile of cantonments at a rate of Rupees 2-8-0 per 100 cubic feet.

Water-supply.—There are four wells, one at the top of the hill, 61 feet deep, giving a fair supply of good drinking water; a second near the barracks for washing water; a third near the slaughter-house, and a fourth in the transport lines.

Lightning-conductors.—The lightning-conductors to the magazine are said to be in bad order.

New works.—A barrack for 30 men is being constructed, and although the walls are some 10 feet high it is stated that the building will not be completed until April 1893. The barrack with one lavatory and one latrine will cost Rs. 31,560.

Furniture.—Furniture is made by contract and supplied to the troops by the Commissariat department.

Rifle range.—The range extends only to 600 yards with the sea as back ground, and a new one will probably have to be selected hereafter.

NOTES ON CANNANORE FORT.

Historical.—This fort was constructed in the year 1505 by the Portuguese and named Fort Saint Angelo.

About the year 1700 it was captured by the Dutch, and in 1771 it was sold by them to Ali Raja of Cannanore.

It was captured by General McLeod in 1783, but was given up to Tippu Sultan in the following year, and did not finally become a British possession until 1790 when it was surrendered to General Abercromby who had a force of about 3,000 men on land and a number of war ships close to the coast.

It is recorded in the Gazette of Malabar that improvements were carried out to the fort in 1797, since when it would appear to have been nearly untouched to judge from the state of the defences at the present time.

General description.—The promontory on which Cannanore fort stands is situated between the town and the cantonment, is surrounded on three sides by the sea and is in length about 450 feet and has an average breadth a little over 200 feet. The fort itself, excluding the ravelin, is about 200 feet by 200 feet. On the north or land-side the trace consists of a bastion on each flank with a curtain protected by a ruinous ravelin between the escape on this side is withdrawn 30 feet from the edge of the ditch, thus forming a large berm.

Ditches.—The dry ditch of the ravelin is 12 feet deep and the main ditch which is connected to the sea at its eastern end by means of a sluice (out of repair) is 15½ feet deep and 12 feet wide in front of the entrance gate and 24 feet deep and 60 feet wide in front of the curtain. On the east side the sea cliff is surmounted by workshops and sheds except at the north-east corner where there are one or two salient flanking angles for musketry fire, but which have a good piece of the southern promontory quite dead.

General description.—On the west side at the southern end there is a long gun-shed and at the centre there is a battery with wire embrasures, which were almost knocked to pieces by last year's practice and which have a command above the sea of about 20 feet. On the south side there are some store godowns once used as barracks, and to the south of these there is a dry ditch about 18 feet wide, crossed by a bridge sliding on iron girders. To the south of the fort there is a piece of open ground planted with a few casuarina trees and with an underground magazine or store (entered by a small trap-door at ground level) in the centre. Around this plot of ground there is a small parapet, which has a small dry ditch in front of it on the southern side.

The extreme end of the promontory is rocky barren ground, which, in fine weather, would not present many difficulties to a landing party who were well covered by fire from their ships.

Trace.—It is clear from an examination of the fort that the trace has been altered considerably from time to time, but no old plans appear to be available.

Surrounding country.—The ground to the north consists of a large open maidan, used as a parade ground, but to the north-west is occupied by the British Infantry barracks and to the north-east the cocoanut plantations are within rifle range, and would afford excellent cover to an enemy on land. The old Royal Artillery barracks and Commissariat office are also close to the fort in the same direction (north-east).

Main approach.—The main approach is across the maidan to the north, and the only road into the fort itself after passing through a short glacis crosses a sliding bridge over the main ditch, here narrowed to 12 feet, and thence passes through a 3-inch iron spiked wooden gateway to the south of the north-east battery into the interior of the fort.

There appears to have been another entrance through the centre of the curtain which is so cened by the ravelin.

Distances from Town and Barracks.—The British Infantry barracks are only 620 yards distant from the north-west corner of the fort and all the important buildings in the town and cantonment are within 2,000 yards.

Armament.—The armament which is placed in the east (9 embrasures) and west (5 embrasures) batteries on the north face consists of the following:—

East Battery.—One 10-inch mortar; One 8-inch mortar; Three 18 pr. S. B. guns.

West Battery.—Two 18 pr. S. B. guns.

Reserve.—In addition to the above a reserve mountain battery fully equipped and consisting of two 5½-inch mortars and two 4⅔-inch howitzers are kept in one of the stores.

Ammunition.—Ammunition is plentiful, and the needful apparatus for filling shells, &c., is kept in the fort laboratory.

Chief buildings.—The chief buildings are as follows:—Laboratory and guard-room armoury containing some thousands of vacant wooden arm-racks; tent and store godowns; workshops; saw-shed and pit; Store Sergeants' quarters; Staff Sergeants' quarters; three gun sheds.

3. Jail wards, consisting of long rooms with brick-arched roofs and iron-barred doors and windows, all very much out of repair

Light-house.—A light-house and signalling quarters are situated at the north-west corner of the fort.

Magazine.—The big gun magazine is a bomb-proof building with a second roof of Mangalore tiling over the brick arching to keep out damp.

The old police guard-room is used as a magazine for the storage of gun-cotton for the use of the troops.

Lightning-conductors.—The lightning-conductors are said to be in good order.

Water-supply.—There are two wells inside the fort, in one of which the water is brackish and in the other good, but as the latter is influenced by the tides, it is proposed to sink another well further from the sea.

General.—The only inhabitants of the fort are the Park Sergeant, the Light-house signallers and the British Infantry and Native Infantry guards.

The occupied buildings are in good order, but as in the case of the cantonment there is a large number of good buildings lying absolutely idle.

The fort would only be of use against a land attack, which it has principally been constructed to resist.

NOTES ON CANNANORE.

Position.—Cannanore is situated on the coast 59 miles north of Calicut, with which it is only connected by road.

Size.—It is a large cantonment about 1½ miles by 2 miles, and in addition to a great number of private bungalows contains lines for one Native Infantry Regiment and for one battery of Royal Artillery.

The boundary is defined by granite stone pillars.

Subordinate in Charge.—Cannanore is a sub-division of the West Coast Division Public Works Department with head-quarters at Calicut, and has for the past three years been in the charge of Sub-Conductor T. B. Smith, who has in addition to look after the civil buildings in three taluks, or an area of about 50 by 30 miles.

Garrison.—The present garrison consists of 100 British Infantry and a Native Regiment.

British Infantry Lines.—The barracks now occupied by the detachment were built in 1845 and the unoccupied buildings in 1839.

The unoccupied barracks are kept in a very fair state of repair.

Drainage very good.

Institute buildings naturally very complete.

Style of construction.—All the buildings are constructed by laterite and have boarded floors and tiled roofs supported on primitive trusses.

Royal Artillery buildings.—The Royal Artillery buildings are not occupied by troops, but one of the barracks has been misappropriated as a civil hospital and another as a police station. Style of construction similar to the British Infantry lines. The Royal Artillery plunge-bath is used by the British Infantry, as theirs is out of repair.

Commissariat buildings.—The commissariat buildings including warrant and non-commissioned officers' quarters are in a very good state of repair and are, of course, much in excess of requirements.

Native Infantry buildings.—The sepoy lines are neat in appearance and well kept up by the regiment which receive a grant from Government.

Magazines.—The magazines, places-of-arms, guard-room and hospital are complete and kept in good repair by the Public Works Department. Two very large magazines, one of which is fitted with a great number of stands for ammunition, are situated near the church, but are both in a bad state of repair.

Water-supply.—The water-supply throughout cantonment is good and ample though the wells have not been cleaned out for a long time.

Church.—There is a church much too large for present requirements, but kept in good repair.

Hospital.—The hospital for 80 or 90 beds consists of a very fine set of buildings close to the sea and is well kept up.

Old Women's Hospital.—It is proposed to use the old women's hospital (near the church) hereafter as a cantonment (lock) hospital.

Repairs.—Repairs are carried out by contract and bills are checked and cheques drawn by the Sub-divisional officer. This year's estimate for the British infantry lines amounts to Rs. 2,500 (including 800 for white and colour washing), for the commissariat buildings Rs. 800,

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for the Native infantry lines Rs. 1,100, and for the fort Rs. 1,200. The average monthly expenditure on military repairs, &c., and salaries is Rs. 750.

Contractors.—The contractors are good and have been employed for more than 20 years.

O. Oomar Cooty, of Old Town, Cannanore, carries out work to the Native infantry and commissariat lines and O. Poker repairs the British infantry lines, fort and roads.

Roads.—The roads, which have a total length of 9½ miles, are in good order and are repaired at an annual cost of Rs. 3,000 which, although it includes the pay of a maistry at Rs. 25 per mensem, seems very high.

Rifle ranges.—The range for British infantry extends to 900 yards and for Native infantry to 800 yards

Some rates.—Iron work As. 3 per lb; laterite in lime, Rs. 18 per 100 cubic feet; laterite in clay, Rs. 14 per 100 cubic feet; laterite road metal, Rs. 4 per 100 cubic feet; teakwood work, Rs. 4 per cubic foot; erool, Rs. 1–10–0 per cubic foot; granite, Rs. 1–8–0 per cubic foot. Cooly, As. 4 per diem; mason or black smith, As. 10 to 12 per diem.

Furniture.—Jail rates having been found to be very high, furniture is now made up departmentally by the commissariat and is issued to Calicut and Malapuram, that for Cannanore itself being drawn from the commissariat by the Barrack Sergeant and then issued to the troops.

Most of the furniture is of very old patterns and is not in good repair.

Barrack Sergeant.—Sub-Conductor Drew, who has the somewhat anomalous title of Barrack Sergeant, has charge of barrack duties; and as his net pay is only Rs. 90 and he does not receive rations or other allowances, he appears to have a real grievance.

NOTES ON QUILON.

Cantonment.—Quilon cantonment is situated on the coast of Travancore about 160 miles south of Calicut with which the means of communication are either by sea in the coasting steamer or by backwater in boats.

A railway is under construction and will connect Quilon with the South Indian Railway at Tinnevelly.

Garrison.—The garrison consists of one regiment of Madras infantry, less small detachments at Trichur and Trivandrum.

Native Infantry lines.—The Native infantry lines are probably the worst in India and consist of a number of thatched roofed hovels with wattle and damp walls. Estimates have been prepared for the construction of permanent lines on the standard plan.

Regimental buildings.—The regimental buildings, Quartermaster's store, guard-room and places-of-arms, hospital and armourers' shop are substantially built and in good order.

Armourers' shop.—An estimate has been sent forward for providing a drying room and a forge and browning trough in the armourers' shop, which is otherwise complete.

Repairs.—All work is carried out by the Travancore State Public Works Department (see general report). The amount spent on petty and annual repairs is Rs. 3,060 which seems rather high.

Water-supply.—The water-supply is *good*, but there are no masonry platforms round the wells.

Rifle range.—The rifle range (sea back ground) is only 800 yards long, but could be extended if the road at the 800 yards platform were closed during practice; this, however, would receive much opposition and it may be necessary hereafter to select a new range

Commanding Officer's quarters.—The Commanding Officer is provided by the State with a very good house rent free.

NOTES ON TRICHUR.

Position.—Trichur is a small out-post in Travancore State, distant 21 miles by road from the railway at Shoranur, 132 miles by backwater from Quilon and 6 miles in a direct line from the sea.

Garrison.—The garrison consists of 1¼ companies from the regiment of Madras Infantry at Quilon.

Native Infantry lines.—The sepoys' huts are fairly substantial and are in good repair.

The orderly room, quarter guard, place-of-arms and hospital are in one block (159′ × 28½′) which is in poor repair.

The school and armourers' shop are in another separate block and a small magazine completes the list of public buildings.

Repairs.—As in the case of Quilon all repairs and works are carried out by the State Public Works Department (*vide* general report).

Rifle range.—There is no rifle range, one being hardly required for such a small body of troops.

Water-supply.—Water-supply good.

Roads.—All roads are purely civil.

(Signed) E. R. B. STOKES-ROBERTS, Lieut., R.E.,
Chief Engineer, Military Works.

22nd February 1892.

No. 8219, Military.

Transferred to the Public Works Department for consideration and disposal with reference to the undermentioned Proceedings of Government:—

No. 3178 W. (Public Works), dated 26th Nov. 1891.
„ 2996 (Military), „ 9th May 1892.

FORT ST. GEORGE,
22nd December 1892.

(Signed) H. R. HOPE, Brigdr.-Genl.,
Secretary to Government.

ORDER—dated 16th January 1893, No. 86 W., Public Works.

In G.O., No. 3178 W., dated 26th November 1891, His Excellency the Governor in Council stated that he had no objection to the proposal that all the military works in the Madras Presidency now in charge of the Public Works Department be transferred to the control of the Military Works Department. Since then nothing has occurred to alter the circumstances. The matter is one for the consideration and decision of the Government of India, to whom the correspondence will accordingly be forwarded for orders.

[Here enter No. 87 W., Public Works, dated 16th January 1893.]

(True Extract.)

(Signed) G. T. WALCH,
Ag. Secretary to Govt., P.W.D.

To the Military Department.

ENDORSEMENT—dated 16th January 1893, No. 87 W., Public Works.

Copy of the above, with a copy of Proceedings, No. 3178 W., dated 26th November 1891, forwarded to the Government of India.

(By Order.)

(Signed) G. T. WALCH,
Ag. Secretary to Govt., P.W.D.

Ed. C. A. Munisawmy.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated January, 16th.

Recd. *Encl.*

C.O., 16th Jan. 1893, Nos. 86 W., 87 W.

JANUARY.

Military Works

Forwarding copy of Proceedings on the subject of the proposed transfer to the control of the Military Works Department of all the — in the Madras Presidency now in charge of the Public Works Department.



5TH JUNE 1893, No. 1493 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following paper:—

From the Secretary to the Government of India, Military Department, to the Secretary to the Government of Madras, Public Works Department, dated Simla, 20th May 1893, No. 1534 M.W.

I am directed to acknowledge the receipt of your endorsement No. 87 W., dated 16th January 1893, submitting correspondence regarding a proposal for the extension of the Military Works Department in the Madras Presidency so as to include the stations at which Military works are still administered by the Public Works Department.

2. In reply, I am to state, for the information of His Excellency the Governor in Council, that the Government of India are unable to entertain the proposal unless it can be shown that a reduction can be made in the establishment of the Public Works Department corresponding to the proposed increase in the establishment of the Military Works Department.

ORDER—dated 5th June 1893, No. 1493 W., Public Works.

Communicated to the Military Department with reference to G.O., No. 86 W., dated 16th January 1893.

2. It is observed that there will be no saving to the State as a consequence of the transfer of Military Works.

(True Extract.)

(Signed) J. HANNAN,
Ag. Joint Secy. to Govt., P.W.D.,
General, Buildings and Roads Branch.

To the Military Department.

Exd. C. A. Munisawmy.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated June, 5th.

Read. *Encl.*

G.O., 5th June 1893, No. 1493 W.

JUNE.

Military Works Department in the Madras Presidency

Letter from the Government of India declining to entertain the proposal for the extension of the — so as to include the stations at which Military works are still administered by the Public Works Department, communicated to the Military Department with remarks.

25

IMPERIAL,
MILITARY WORKS.

DIRECTOR GENERAL,
MILITARY WORKS.

FINAL ISSUE.

IMPERIAL BUDGET ESTIMATE

OF

MILITARY WORKS

IN THE

MILITARY WORKS DEPARTMENT

FOR THE YEAR

1893-94.

IMPERIAL,
Military Works.

DIRECTOR GENERAL,
Military Works.

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Imperial,
Military Works.

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Director General,
Military Works.

REVENUE.

Abstract of the Budget Estimate of Revenue of the Military Works Department under the Director General of Military Works, for the year from 1st April 1893 to 31st March 1894.

	Actuals, 1891-92.	Budget Estimate, 1892-93.	Revised Estimate, 1892-93.	Budget Estimate, 1893-94.
	Rs.	Rs.	Rs.	Rs.
XXXI.—Military Works.				
In India	4,16,032	3,30,000	3,30,000	3,36,000*
In Lower Burma		6,000	6,000	...
In Upper Burma	22,236	25,000	25,000	...
Total ...	4,38,268	3,61,000	3,61,000	3,36,000

CHARGES.

Abstract of the Budget Estimate of Expenditure of the Military Works Department under the Director General of Military Works, for the year from 1st April 1893 to 31st March 1894.

	Reference to detailed Estimate.	Actuals, 1891-92.	Budget Estimate, 1892-93.	Revised Estimate, 1892-93.	Budget Estimate, 1893-94.
	Pages.	Rs.	Rs.	Rs.	Rs.
41—Military Works.					
Original Works ... In progress ...	4-27	44,79,179	16,56,400	40,74,500	15,74,900
Original Works ... Not commenced ...			22,71,400		15,58,100
Repairs	28-31	25,45,256	26,14,000	26,58,100	25,31,000
Total Works and Repairs ...	32-43	70,24,435	65,41,800	67,32,600	56,64,000
Establishment	...	21,05,994	21,55,000	21,28,200	20,62,000
Tools and Plant	...	77,903	88,000	98,400	88,000
Suspense	44	61,821	1,15,000	76,540	—33,100
Total ...	...	92,70,153	88,99,800	90,30,740	77,80,900
Barrack Department — New Supplies ...	Separate Budget	2,87,298	3,03,500	3,16,660	3,08,200
Barrack Department — Repairs and Carriage	Separate Budget	2,06,080	2,23,000	2,14,060	2,17,000
Barrack Department — Establishment ...	Separate Budget	1,78,917	1,96,000	1,96,000	1,88,000
Total Barrack Department ...	...	6,72,295	7,22,500	7,26,660	7,08,200
GRAND TOTAL ...	...	99,42,448	96,22,300	97,57,400	84,89,100
Deduct—Expenditure in England ...	...	76,901	3,79,500	3,99,900	91,000
„ —Loss by Exchange	...	33,395	1,89,800	2,40,000	57,100
Net Indian Outlay ...	...	(a)98,32,152	(b)90,53,000	91,17,500	83,41,000

	(a)	(b)
India and Lower Burma	95,60,576	86,93,000
Upper Burma	2,71,577	3,60,000
Total ...	98,32,152	90,53,000

* Includes Rs. 6,000 on account of Lower Burma Revenue. See paragraph 2 of Budget orders on Lower Burma Budget, Government of India, Military Department, No. 673-M.W., dated 23rd March 1893.

Imperial,
Military Works.

Director General,
Military Works.

CHARGES.

Abstract of the Charges to be incurred on Military Works in the Military Works Department from Imperial Funds under the Director General of Military Works in both India and England.

	BUDGET ESTIMATE, 1893-94.							Revised Estimate, 1892-93.*	Budget Estimate, 1892-93.*	Actuals, 1891-92.*
	Original Works.	Repairs.	Establishment.	Tools and Plant.	Barrack Department.	Suspense Accounts.	Total.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
PROVISION FROM IMPERIAL FUNDS.										
Military Works.										
In India and Burma ...	31,33,000	25,31,000	20,62,000	88,000	6,87,000	—1,60,000	83,41,000	(c) 91,17,500	(b) 90,53,000	(a) 98,32,152
In England	...	...	...	...	13,000	78,000	91,000	3,99,900	3,79,500	76,901
Loss by Exchange ...	...	...	...	...	8,200	48,900	57,100	2,40,000	1,80,900	33,395
TOTAL ...	31,33,000	25,31,000	20,62,000	88,000	7,08,200	—33,100	84,89,100	97,57,400	96,22,300	99,42,448

Statement showing the works on which the outlay in England above provided for is to be incurred.

	BUDGET ESTIMATE, 1893-94.						Revised Estimate, 1892-93.*	Budget Estimate, 1892-93.	Actuals, 1891-92.
	Original Works.	Repairs.	Tools and Plant.	Barrack Department.	Suspense Accounts.	Total.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
i.—Bedsteads for Hospitals ...	...	...	...	13,000	...	13,000	(d) 3,99,900	3,79,500	76,901
ii.—Stores for general use ...	...	...	...	...	78,000	78,000			
TOTAL ...	...	...	...	13,000	78,000	91,000	3,99,900	3,79,500	76,901

* Includes Upper Burma.
(a) Includes Rs. 2,71,577 for Upper Burma.
(b) Includes Rs. 3,00,000 for Upper Burma.
(c) Includes Rs. 3,40,000 for Upper Burma.
(d) Includes Rs. 19,320 for Upper Burma.

Imperial,
Military Works.

Director General,
Military Works.

Distribution of Budget Expenditure on Military Works in the Military Works Department for 1892-93 and 1893-94.

	REVISED ESTIMATE, 1892-93.			BUDGET ESTIMATE, 1893-94.		
	India and Lower Burma.	Upper Burma.	Total.	India.	Upper Burma.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Original Works, Major	33,07,594	1,79,600	34,87,194	26,63,500	...	26,63,500
Ditto Minor	5,57,306	30,000	5,87,306	4,69,500	...	4,69,500
TOTAL ORIGINAL WORKS ...	38,64,900	2,09,600	40,74,500	31,33,000	...	31,33,000
Repairs	25,81,100	77,000	26,58,100	25,31,000	...	25,31,000
TOTAL WORKS AND REPAIRS ...	64,46,000	2,86,600	67,32,600	56,64,000	...	56,64,000
Establishment	20,67,200	56,000	21,23,200	20,62,000	...	20,62,000
Tools and Plant...	86,400	12,000	98,400	88,000	...	88,000
Suspense	76,540	...	76,540	—33,100	...	—33,100
TOTAL ...	86,76,140	3,54,600	90,30,740	77,80,900	...	77,80,900
BARRACK DEPARTMENT—						
New Supplies	3,08,660	8,000	3,16,660	3,03,200	...	3,03,200
Repairs and Carriage	2,11,000	3,000	2,14,000	2,17,000	...	2,17,000
Establishment	1,90,000	6,000	1,96,000	1,88,000	...	1,88,000
TOTAL BARRACK DEPARTMENT ...	7,09,660	17,000	7,26,660	7,08,200	...	7,08,200
GRAND TOTAL ...	93,85,800	3,71,600	97,57,400	84,89,100	...	84,89,100
DEDUCT—EXPENDITURE IN ENGLAND ...	3,80,580	19,320	3,99,900	91,000	...	91,000
„ —LOSS BY EXCHANGE ...	2,28,400	11,600	2,40,000	57,100	...	57,100
TOTAL DEDUCTION ...	6,08,980	30,920	6,39,900	1,48,100	...	1,48,100
NET INDIAN OUTLAY ...	87,76,820	3,40,680	91,17,500	83,41,000	...	83,41,000

Imperial,
Military Works.

PART I.

Detail of the Budget Estimate for Original Works, for the year 1893-94.

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				MAJOR WORKS.	
				ACCOMMODATION FOR TROOPS.	
				General.	
Buildings for British Troops in the Hills.	Peshawar ...	Cherat ...	1	Complete requirements of station (excluding Commissariat).	6,83,685
	Quetta ...	Quetta ...	2	Accommodation for British Troops—	
				i.—Buildings for two Battalions of British Infantry.	17,54,459
				ii.—Buildings for one Mountain and two Garrison Batteries.	4,71,224
				iii.—Completion of Station Hospital.	64,622
				iv.—Garrison buildings ...	2,37,916
				v.—Remodelling three blocks of class I family quarters.	11,798
					25,40,01
Buildings for British Troops in the Plains.	Jhansi ...	Jhansi ...	3	Additional accommodation for Royal Artillery.	6,03,245
	Rawalpindi ...	Rawalpindi ...	4	Hut accommodation at West Ridge—	
				i.—Barracks for two Battalions of British Infantry.	6,86,976
				ii.—Barracks for two Mountain Batteries.	3,43,001
				iii.—Garrison requirements ...	97,215
				iv.—Officers' quarters ...	2,18,215
					12,95,407
				Carried over ...	...

Director General,
Military Works.

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I.

Original Works, for the year 1893-94.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
3,82,285	10,000	10,000	...	10,000	1	Project sanctioned in Military Department No. 635-M. W., dated 5th June 1885.
16,14,012						i.—Project sanctioned in Military Department No. 1559-M. W., dated 30th July 1887.
4,00,481						ii.—Project sanctioned in Military Department No. 103-M. W., dated 20th January 1888.
41,281	10,000	26,000	...	26,000	2	iii.—Project sanctioned in Military Department Nos. 2545-M. W., dated 31st December 1889, and 1601-M. W., dated 3rd July 1890.
1,07,483						iv.—Project sanctioned in Military Department No. 1559-M. W., dated 30th July 1887.
...						v.—Supplementary estimate sanctioned in Director General of Military Works' No. 2615-B., dated 27th June 1892.
21,83,260						
5,32,369	19,400	10,000	...	10,000	3	Project sanctioned in Military Department No. 25-M. W., dated 6th January 1888.
7,84,355	36,000	40,000	...	40,000	4	Projects for i., ii. and iii. sanctioned in Military Department No. 1128-M. W., dated 14th June 1890.
						iv.—Project sanctioned in Military Department No. 1606-M. W., dated 3rd July 1890.
...	75,400	86,000	...	86,000		

Imperial,
Military Works.

PAR

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
Buildings for British Troops in the Hills.	Murree ...	Gbarial ...	5	Hut accommodation—	
				i.—Barrack buildings ...	3,09,030
				ii.—Hospital	76,028
				iii.—Officers' quarters ...	1,01,988
	Chakrata ...	Chakrata ...	6	Hut accommodation at Kailana—	
				i.—Barrack buildings ...	2,34,44
				ii.—Hospital	1,36,750
				iii.—Officers' quarters ...	94,491
Do. in the Plains	Lucknow ...	Sitapore ...	7	Reconstruction and restoration of buildings, including new buildings.	5,32,05
	Madras ...	Poonamallee ...	8	New Barracks	2,02,900
	Belgaum ...	Belgaum ...	9	Converting 12 quarters of No. 13 Barrack for married men into quarters for single men, British Infantry.	10,51
	Bombay ...	Colaba ...	10	Barracks for single men of British Infantry and Royal Artillery.	8,54,151
Buildings for Native Troops in the Plains.	Chakratta ...	Dehra ...	11	Buildings for a Native Mountain Battery.	55,282
	Bareilly ...	Lansdowne ...	12	Public buildings for 2-3rd Gurkhas	57,935
				TOTAL ...	...
				Officers' Quarters.	
Officers' quarters ...	Madras ...	Wellington ...	13	Quarters for 12 Subaltern Officers ...	48,523
	Amballa ...	Sabathu ...	14	Purchase of house used as Officers' mess.	4,200
				TOTAL ...	...
				Carried over ...	...

Director General,
Military Works.

I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	75,400	86,000	...	86,000		
1,69,432	10,000	20,000	...	20,000	5	i.—Project sanctioned in Military Department No. 1303-M. W., dated 30th May 1890. ii.—Project sanctioned in Military Department No. 1346-M. W., dated 5th June 1890. iii.—Project sanctioned in Military Department No. 1517-M. W., dated 25th June 1891.
1,98,259	8,000	40,000	...	40,000	6	i.—Project sanctioned in Military Departmen No. 3077-M. W., dated 21st November 1891. ii.—Project sanctioned in Military Department No. 3289-M. W., dated 12th December 1891. iii.—Project sanctioned in Military Department No. 1477-M. W., dated 19th June 1890.
...	52,400	1,00,000	...	1,00,000	7	Approximate estimate sanctioned in Military Department No. 1266-M. W., dated 9th May 1892.
1,46,674	40,000	17,000	...	17,000	8	Revised estimate sanctioned in Military Department No. 161-M. W., dated 19th January 1891.
...	...	...	10,000	10,000	9	Estimate sanctioned in Chief Engineer's No. 3776, dated 10th May 1892.
6,02,729	41,040	1,50,000	...	1,50,000	10	General approximate estimate sanctioned in Military Department No. 3375-M. W., dated 11th November 1892.
16,559	26,750	15,000	...	15,000	11	Project for Rs. 49,200 sanctioned in Military Department No. 1714-M. W., dated 15th July 1890, and supplementary estimate for Rs. 6,082 for Hospital, sanctioned in Military Department No. 15-M. W., dated 3rd January 1891.
...	11,600	30,000	...	30,000	12	General approximate estimate sanctioned in Military Department No. 19-M. W., dated 5th January 1893.
...	2,65,190	4,58,000	10,000	4,68,000		
...	24,000	24,000	...	24,000	13	Estimate sanctioned in Military Department No. 3136-M. W., dated 27th October 1892.
...	*	...	4,200	4,200	14	Purchase sanctioned in Military Department No. 1199-M. W., dated 29th April 1892. * Grant of Rs. 4,200 not utilized.
...	24,000	24,000	4,200	28,200		
...	2,89,190	4,82,000	14,200	4,96,200		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				Hospitals.	
Hospitals ...	Bareilly ...	Kumpur ..	15	Additional Hospital accommodation	76,378
	Quetta ...	Quetta ...	16	Station Hospital for Native troops	1,38,806
	Madras ...	Poonamallee ...	17	Additional Hospital accommodation	11,640
	Bombay ...	Deolali ...	18	Quarters for Medical Subordinates	18,167
	Jhansi ...	Jhans ...	19	New Station Hospital ...	1,86,200
	Secunderabad ...	Secunderabad ...	20	Completing requirements of North, South and Central Station Hospitals.	...
				TOTAL ...	...
				Stables and Gun-sheds.	
Gun-sheds ...	Murree ...	Campbellpore ...	21	Gun-shed for a Heavy Field Battery	14,634
				Auxiliary requirements.	
Auxiliary ...	Poona ...	Kirkee ...	22	Constructing two Pontoon sheds for Bombay Sappers and Miners.	23,389
				Carried over ...	...

Director General,
Military Works.

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I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	2,89,190	4,82,000	14,200	4,96,200		
35,502	23,100	15,000	...	15,000	15	Estimate sanctioned in Military Department No. 5-M.W., dated 2nd January 1891.
...	80,000	58,000	...	58,000	16	Project sanctioned in Military Department No. 3236-M.W., dated 7th December 1891.
...	3,000	8,000	...	8,000	17	Estimates sanctioned in Director General's No. 1456-B. dated 1st April 1892.
...	7,000	11,000	...	11,000	18	Estimate sanctioned in Military Department No. 3287-M.W., dated 7th November 1892.
...	8,000	72,000	...	72,000	19	Approximate estimate sanctioned in Military Department No. 3697-M.W., dated 17th December 1892.
...	13,000	5,200	...	5,300	20	Estimates sanctioned by Chief Engineer.
...	1,34,100	1,69,300	...	1,69,300		
3,771	...	10,000	...	10,000	21	Estimate sanctioned in Director General's No. 1280-B., dated 23rd March 1892.
...	2,700	11,000	...	11,000	22	Estimate sanctioned in Military Department No. 2200-M.W., dated 29th July 1892.
...	4,32,990	6,72,300	14,200	6,86,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				Renewals and Improvements.	
				Presidency-Oudh Command.	
Renewals and improvements	Lucknow ...	Lucknow ...	23	Reroofing No. 6 family Barrack, Left British Infantry Lines.	17,054
				Meerut Command.	
	Meerut ...	Meerut ...	24	Reroofing No. 1 single men's Barrack, British Cavalry Lines.	18,500
	Ditto ...	Ditto ...	25	Reroofing No. 4 single men's Barrack, British Cavalry Lines.	15,700
	Ditto ...	Ditto ...	26	Reroofing No. 7 family Barrack, British Cavalry Lines.	11,190
	Ditto ...	Ditto ...	27	Reroofing No. 58, Medical Subordinates' quarters.	9,593
	Jhansi ...	Jhansi ..	28	Remodelling No. 1 Barrack in British Infantry Lines.	18,813
	Bareilly ...	Bareilly ...	29	Reroofing No. 16, Native Infantry Hospital.	5,084
	Ditto ...	Ditto ...	30	Reroofing No. 3 Barrack, Royal Artillery Lines.	6,000
	Bareilly ...	Kumpur ...	31	Reroofing with sheet iron the slate-roofed Barracks.	85,000
					...
				Carried over ...	...

Director General,
Military Works.

I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	4,32,990	6,72,300	14,200	6,86,500		
...	12,000	5,000	...	5,000	23	Estimate sanctioned in Director General's No. 3721-B., dated 17th October 1892.
...	...	...	18,500	18,500	24	Estimate under preparation.
...	...	...	16,000	16,000	25	Estimate under preparation.
...	...	...	11,200	11,200	26	Estimate sanctioned in Director General's No. 527-B., dated 9th February 1891.
...	...	...	9,000	9,000	27	Estimate sanctioned in Superintending Engineer's No. 473, dated 11th February 1892.
...	...	...	19,000	19,000	28	Estimate sanctioned in Director General's No. 4660-B., dated 10th November 1891.
...	...	...	5,000	5,000	29	Estimate sanctioned in Superintending Engineer's No. 1376, dated 13th April 1892.
...	...	...	6,000	6,000	30	Superintending Engineer will sanction estimate.
...	12,000	23,000	...	23,000	31	Estimates will be sanctioned by Superintending Engineer, as required.
...	24,000	28,000	84,700	1,12,700		
...	4,32,990	6,72,300	14,200	6,86,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
Renewals, &c.—*contd.*				*Sirhind-Lahore Command.*	
	Lahore ...	Mian Mir ...	32	Reroofing Royal Artillery Stables ..	10,000
	Umballa ...	Kasaulie ...	33	Reroofing Nos. 7 and 9 single men's Barracks.	8,000
	Ditto ...	Subathu ...	34	Reroofing No. 14 single men's Barrack.	7,500
	Ditto ...	Ditto ...	35	Reroofing No. 15 single men's Barrack.	8,870
	Ditto ...	Dagshai ...	36	Reroofing Nos. 11, 12, 13, 15, 16 and 17 Barracks and No. 16 Bungalow.	25,700
	Ditto ...	Jutogh ...	37	Reroofing Quarters of Officer Commanding Royal Artillery.	3,445
	Ditto ...	Ditto ...	38	Reroofing Royal Artillery Officers' quarters and Mess-house.	3,000
	Rawalpindi ...	Rawalpindi ...		*Rawalpindi Command.*	
			39	Reroofing No. 8 single men's Barrack, British Infantry Lines.	25,307
	Ditto ...	Ditto ...	40	Reroofing No. 74 Hospital ...	12,084
	Ditto ...	Ditto ...	41	Reroofing No. 56 Hospital ...	10,803
	Ditto ...	Ditto ...	42	Restoring No. 13 women's Hospital	3,000
	Murree ...	Cliffden ...	43	Reroofing Officers' quarters ...	3,256
	Ditto ...	Ditto ...	44	Reroofing family Barracks and their subsidiary buildings.	24,896
	Ditto ...	Campbellpore ...	45	Remodelling No. 61 R. A. Sergeants' Mess.	3,887
	Ditto ...	Attock ...	46	Remodelling Nos. 13 and 40 Cook-houses.	3,636
	Peshawar ...	Peshawar ...	47	Restoring Nos. 27 and 28 Staff Sergeant's quarters, Royal Artillery Lines.	18,102
				Carried over ...	...

Director General,
Military Works.

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I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs. ...	Rs. 4,32,990	Rs. 6,72,300	Rs. 14,200	Rs. 6,86,500		
...	24,000	28,000	84,700	1,12,700		
...	...	...	10,000	10,000	32	Estimate not yet sanctioned.
...	...	...	8,000	8,000	33	Estimate not yet sanctioned.
...	...	...	7,500	7,500	34	Estimate not yet sanctioned.
...	...	...	8,900	8,900	35	Estimate not yet sanctioned.
...	...	...	25,700	25,700	36	Estimate not yet sanctioned.
...	...	..	3,400	3,400	37	Estimate not yet sanctioned.
...	...	...	3,000	3,000	38	Estimate not yet sanctioned.
...	...	...	25,000	25,000	39	Estimate sanctioned in Director General's No. 949-B., dated 26th February 1891.
...	...	...	12,000	12,000	40	Estimate sanctioned in Director General's No. 1322-B., dated 24th March 1892.
...	...	...	10,800	10,800	41	Estimate sanctioned in Director General's No. 552-B., dated 21st February 1892.
...	...	...	3,000	3,000	42	Estimate not yet sanctioned.
...	...	...	3,200	3,200	43	Estimate sanctioned in Superintending Engineer's No. 3775, dated 16th October 1890.
...	...	...	25,000	25,000	44	Estimate sanctioned in Director General's No. 3979-B., dated 13th November 1890.
...	...	...	3,400	3,400	45	Estimate sanctioned in Superintending Engineer's No. 5347, dated 7th November 1891.
...	...	...	3,600	3,600	46	Estimate sanctioned in Superintending Engineer's No. 268, dated 18th January 1892.
499	...	17,800	...	17,800	47	Estimate sanctioned in Director General's No. 2470-B., dated 8th June 1891.
...	24,000	45,800	2,37,200	2,83,000		
...	4,32,990	6,72,300	14,200	6,86,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				Beluchistan Command.	...
Renewals, &c.—*concld.*	Quetta ...	Quetta ...	48	Restoration of buildings in the right and left Native Infantry Lines.	1,01,268
	Ditto ...	Ditto ...	49	Restoration of Officers' quarters and servants' houses.	...
				Madras Command.	
	Belgaum ...	Belgaum ...	50	Alterations to Cook-houses of Nos. 46 and 39, British Infantry Barracks.	6,210
				Bombay Command.	
	Poona ...	Wanowree ...	51	Reconstruction of Hospital Guard-room.	4,363
	Ditto ...	Ghorepuri ...	52	Reroofing three single men's Barracks.	12,000
				TOTAL RENEWALS AND IMPROVEMENTS	...
				TOTAL ACCOMMODATION FOR TROOPS	...
				General Cantonment Works.	
Water-supply ...	Rawalpindi ...	Rawalpindi ...	53	Water-supply to Cantonment *(Class A work).*	7,95,202
	Murree ...	Murree ...	54	Water-supply to depôt and adjacent hutted Camps *(Class A work).*	7,51,392
	Barrackpore ...	Dum Dum ...	55	Water-supply to Cantonment *(Class A work).*	98,000
				Carried over ...	...
					...

Director General,
Military Works.

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I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	4,32,990	6,72,300	14,200	6,86,500		
...	24,000	45,800	2,37,200	2,83,000		
...	47,800	55,000	...	55,000	48	Estimate amounting to Rs. 29,160 for reconstructing barracks in right Native Infantry Lines, sanctioned in Military Department No. 1925-M. W., dated 5th July 1892, and for Rs. 72,108 for reroofing 16 barracks in left Native Infantry Lines, sanctioned in Military Department No 2453-M. W., dated 26th August 1892.
1,29,113	60,500	55,500	...	55,500	49	Estimates sanctioned from time to time as funds are available.
...	...	...	6,000	6,000	50	Estimate sanctioned in Chief Engineer's No. 1836, dated 11th March 1892.
...	...	...	4,500	4,500	51	Estimate sanctioned in Chief Engineer's No. 1821, dated 19th August 1892.
...	...	...	12,000	12,000	52	Estimate not yet sanctioned.
...	1,32,300	1,56,300	2,59,700	4,16,000		
...	5,65,290	8,28,600	2,73,900	11,02,500		
4,69,636	2,82,000	20,000	...	20,000	53	Revised estimate sanctioned in Military Department No. 1765-M. W., dated 6th July 1891. Supplementary estimates amounting to Rs. 3,385 sanctioned by Director General.
2,31,178	2,75,500	1,00,000	...	1,00,000	54	Project sanctioned in Military Department No 3255, dated 30th December 1890.
...	12,000	50,000	...	50,000	55	Estimate sanctioned in Military Department No. 3664-M. W., dated 15th December 1892.
...	5,69,500	1,70,000	...	1,70,000		
...	5,65,290	8,28,600	2,73,900	11,02,500		

Imperial,
Military Works.

PART

Details of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
Water-supply—*contd.*	Meerut ...	Delhi ...	56	Water-supply *(Class A work)* ...	51,695
	Agra ...	Agra ...	57	Water-supply to Cantonment *(Class A work).*	2,03,242
	Quetta ...	Quetta ...	58	Water-supply to Cantonment *(Class A work).*	With local P.W.D.
	Bangalore ...	Bangalore ...	59	Water-supply to Cantonment *(Class A work).*	...
	Bareilly ...	Bareilly ...	60	Water-supply to Cantonment *(Class A work).*	2,50,000
	Secunderabad ...	Secunderabad ...	61	Water-supply to Cantonment *(Class A work).*	3,06,940
				TOTAL WATER-SUPPLY WORKS ...	...
Cantonment Roads ...	Quetta ...	Quetta ...	62	Cantonment Roads	88,264
				Planting trees in Cantonment ...	8,278
Drainage, &c. ...	Lahore ...	Dalhousie ...	63	Protective works on "Baloon" Spurs	*Approximate* 13,000
				TOTAL GENERAL CANTONMENT WORKS	...
				Lines of Military Communication.	
Lines of Military Communication.	Quetta ...	Bolan ...	64	High Level Road	21,66,019
	Loralai ...	Hurnai-Loralai-Appozai Road.	65	Constructing Bardasht-khanas on Road.	44,232
				TOTAL ...	...
				Carried over ...	...

Director General,
Military Works.

I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	5,65,290	8,28,600	2,73,900	11,02,500		
...	5,09,500	1,70,000	...	1,70,000		
...	2,600	40,950	...	40,000	56	Estimate sanctioned in Military Department No. 3729-M. W., dated 20th December 1892.
...	...	...	2,00,000	2,00,000	57	Project sanctioned in Military Department No. 3296-M. W., dated 31st August 1892.
*5,98,054	...	80,000	...	80,000	58	To complete work, *vide* Director General's No. 3522-B., dated 23rd September 1892, to Military Department. * Of this sum Rs. 4,97,366 represents Military Works share.
...	29,000	1,00,000	...	1,00,000	59	Project under consideration. Estimate amounting to Rs. 1,17,763 for temporary water-supply sanctioned in Military Department No. 918-M.W., dated 21st March 1893.
...	...	...	80,000	80,000	60	Rough project forwarded to Military Department with Director General's No. 2334-B., dated 30th May 1892.
...	...	...	1,00,000	1,00,000	61	Detailed project sanctioned in Military Department No. 926-B., dated 23rd March 1893.
...	6,00,500	3,90,000	3,80,000	7,70,000		
75,387 1,501	2,500	3,000	...	3,000	62	Estimate sanctioned in Military Department No. 960-M. W., dated 23rd March 1888. Estimate sanctioned in Military Department No. 440-M. W., dated 16th May 1883.
7,817	3,000	2,000	...	2,000	63	Estimate sanctioned by Superintending Engineer annually as required.
...	6,06,000	3,95,000	3,80,000	7,75,000		
20,82,295	42,500	10,000	...	10,000	64	Project sanctioned in Secretary of State's No. 116, dated 17th May 1888.
...	18,500	26,000	...	26,000	65	Work ordered in Military Department No. 2808-M.W., dated 14th July 1892.
...	61,000	36,000	...	36,000		
...	12,32,290	12,59,600	6,53,900	19,13,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				Fortifications.	
Fortifications ...	Lucknow ...	Lucknow ...	66	Additional accommodation in the Executive Engineer's Workshop and Bhoosa Godown Defences for Armament and Guard.	...
	Madras ...	Fort St. George	67	Demolition of Fort Out-works ...	25,750
				TOTAL ...	...
	General ...	General ...	68	Reserve	...
				TOTAL AT DISPOSAL OF DIRECTOR GENERAL OF MILITARY WORKS.	...
				Commissariat Buildings.	
Commissariat ...	Quetta ...	Quetta ...	69	Commissariat and transport requirements.	1,91,828
	Ditto ...	Ditto ...	76	Rebuilding transport followers' quarters.	1,01,270
	Ditto ...	Ditto ...	71	Constructing quarters for 4 Commissariat Officers.	45,500
	Lucknow ...	Cawnpore ...	72	Constructing quarters for the European Boot Examiner.	5,300
	Chakrata ...	Roorkee ...	73	Constructing a Rum and Store Godown.	8,189
				TOTAL ...	...
				Carried over ...	...

Director General,
Military Works.

I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	12,32,290	12,59,600	6,53,900	19,13,500		
...	...	...	7,000	7,000	66	Estimate under preparation.
...	2,000	13,000	...	13,000	67	
...	2,000	13,000	7,000	20,000		
...	...	50,000	...	50,000	68	This reserve is needed to provide for completing unfinished works for which no specific provision is made.
...	12,34,290	13,22,600	6,60,900	19,83,500		
1,78,849	11,200	7,000	...	7,000	69	Estimates to extent of Rs. 1,23,094, sanctioned in Military Department No. 1778-M.W., dated 5th September 1889, and to extent of Rs. 68,734 sanctioned by Director General of Military Works.
63,788	25,000	10,000	...	10,000	70	Estimate amounting to Rs. 98,558, sanctioned in Military Department No. 2311-M.W., dated 4th September 1891. Supplementary estimates amounting to Rs. 2,712, sanctioned by Superintending Engineer.
...	29,918	15,500	...	15,500	71	Estimate sanctioned for Rs. 52,986, in Military Department No. 2748-M.W., dated 20th September 1892, but the Commissary-General-in-Chief has since intimated that quarters are required for three officers only at a cost of Rs. 45,500.
...	...	...	5,300	5,300	72	*Vide* Military Department No. 799-M.W., dated 10th March 1893.
...	...	...	8,000	8,000	73	Estimate sanctioned in Superintending Engineer's No. 4442, dated 9th December 1892.
...	66,118	32,500	13,300	45,800		
..	12,34,290	13,22,600	6,60,900	19,83,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
Commissariat—*contd.*	Bareilly ...	Bareilly ...	74	Reroofing No. 18 cart and gear shed	...
	Meerut ...	Meerut ...	75	Reroofing No. 6, godown occupied as an office.	3,500
	Peshin ...	Chaman ...	76	Dismantling 10 iron sheds at Rindli and re-erecting them at Chaman.	16,147
	Murree ...	Attock ...	77	Constructing a Bakery ...	5,110
	Quetta ...	Quetta ...	78	Constructing huts for 115 bullock Attendants.	15,080
	Madras ...	Madras ...	79	Constructing quarters for a Station Butcher.	3,600
	Ditto ...	Wellington ...	80	Quarters for a milling Engineer ...	3,500
	Bangalore ...	Bangalore ...	81	Constructing sheds for transport carts.	3,000
	Karachi ...	Karachi ...	82	Extension of naw sick lines for transport animals.	2,600
	Aden ...	Aden ...	83	Quarters for Stokers	3,018
	Fort William ...	Alipore ...	84	New issue and receipt godown at the Army Clothing factory.	24,546
	Madras ...	Madras ...	85	Additions and improvements to Army Clothing factory.	33,518
	General ...	General ...	86	Reserve	...
				Total Commissariat ...	...
				Carried over ...	...

37 Director General,
Military Works.

I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	12,34,290	13,22,600	6,60,900	19,83,500		
...	66,118	32,500	13,300	45,800		
...	...	...	3,200	3,200	74	Estimate not yet sanctioned.
...	...	...	3,500	3,500	75	Estimate not yet sanctioned.
...	...	...	16,100	16,100	76	Estimate sanctioned in Military Department letter No. 2920-M. W., dated 29th October 1891.
...	...	...	5,000	5,000	77	Estimate sanctioned in Military Department letter No. 2920-M.W., dated 29th October 1891.
...	...	...	7,000	7,000	78	*Vide* Military Department No. 2771-M.W., dated 22nd September 1892.
...	...	...	3,600	3,600	79	Estimate not yet sanctioned.
...	...	...	3,500	3,500	80	Estimate not yet sanctioned.
...	...	...	3,000	3,000	81	Estimate not yet sanctioned.
...	...	...	2,600	2,600	82	Estimate not yet sanctioned.
...	...	...	3,000	3,000	83	Estimate not yet sanctioned.
...	...	...	24,500	24,500	84	Approximate estimate sanctioned in Military Department No. 843-M.W., dated 9th March 1892.
...	...	...	*25,900	25,900	85	Estimate sanctioned in Military Department No. 1033-M.W., dated 18th April 1892.
...	..	10,000	3,300	13,300	86	* Allotment is for cutting room and packing sheds only.
...	66,118	42,500	1,17,500	1,60,000		
...	13,00,408	13,65,100	7,78,400	21,43,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				Ordnance Works.	
Ordnance ...	Barrackpore ...	Dum Dum ..	87	Buildings for manufacture of magazine rifle ammunition.	1,36,303
	Ditto ...	Ditto ...	88	Improving the water-supply in the factory.	11,920
	Ditto ...	Ditto ...	89	Receipt and issue godown, small arms ammunition factory.	20,800
	Ditto ...	Ditto ...	90	Construction of additional magazine accommodation for storage of Cordite.	78,686
	Ditto ...	Cossipore ...	91	Building for gun section of foundry and shell factory.	67,700
	Ditto ...	Ditto ...	92	Godown for use of Military Works Department at the foundry and shell factory.	10,104
	Fort William ...	Fort William ...	93	Quarters for the Honorary Commissioned Officer and Civil Chief Master Armourer of the Arsenal.	15,602
	Lucknow ...	Futtehgarh ...	94	Subordinates quarters, gun-carriage factory.	...
	Ferozepore ...	Ferozepore ...	95	Boiler-house and chimney stack in the Arsenal.	3,000
	Ditto ...	Ditto ...	96	Receipt and issue shed in Arsenal ...	3,000
	Rawalpindi ...	Rawalpindi ...	97	Additional store-room in Arsenal ...	4,417
	Ditto ...	Ditto ...	98	Shed for 210 army transport carts for ordnance field park in Arsenal.	9,713
	Poona ...	Kirkee ...	99	Buildings for experimental manufacture of cordite and gun-cotton in the gun-powder factory.	72,362
	Ditto ...	Ditto ...	100	Additions and alterations to buildings to receive prism press, gun-powder factory.	3,500
	Ditto ...	Ditto ...	101	Additions and alterations to buildings to accommodate charcoal burning apparatus in gun-powder factory.	5,000
				Carried over ...	...

38 Director General,
Military Works.

I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	13,00,408	13,65,100	7,78,400	21,43,500		
19,184	98,500	23,000	...	23,000	87	Approximate estimate sanctioned in Military Department No. 1028-M. W., dated 18th April 1892.
...	3,500	8,500	...	8,500	88	Estimate sanctioned in Director General's No. 31-B., dated 6th January 1893.
...	...	...	20,800	20,800	89	Estimate awaited.
...	...	...	50,000	50,000	90	Work approved in Military Department No. 984-M. W., dated 23rd March 1893.
...	...	...	67,700	67,700	91	Project awaited, work approved in Military Department No. 2976-M. W., dated 13th October 1892.
...	...	...	9,400	9,400	92	Estimate sanctioned in Military Department No. 3722-M.W., dated 20th December 1892.
...	...	...	15,600	15,600	93	Estimate sanctioned in Director General, Military Works' No. 230-B., dated 24th January 1889.
...	...	...	15,800	15,800	94	Estimate awaited.
...	70	3,000	...	3,000	95	Estimate not yet sanctioned.
...	...	...	3,000	3,000	96	Estimate not yet sanctioned.
...	...	...	4,400	4,400	97	Estimate not yet sanctioned.
...	10,000	3,200	...	3,200	98	Estimate sanctioned in Superintending Engineer's No. 277, dated 30th January 1893.
...	19,056	53,000	...	53,000	99	Estimate sanctioned in Military Department No. 3371-M.W., dated 11th November 1892.
...	...	...	3,500	3,500	100	Estimate not yet sanctioned.
...	...	...	5,000	5,000	101	Estimate not yet sanctioned.
...	1,31,126	90,700	1,95,200	2,85,900		
...	13,00,408	13,65,100	7,78,400	21,43,500		

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
Ordnance—*contd.* ...	Poona ...	Poona ...	102	Seating retorts, gun-powder factory	4,000
	Ditto ...	Ditto ...	103	New boiler and engine-shed in gun-carriage factory.	13,500
	Ditto ...	Kirkee ...	104	Soldering shed, small arms ammunition factory.	4,071
	Belgaum ...	Bellary ...	105	New harness room in Arsenal ...	11,283
	Madras ...	Madras ...	106	New Workshop in Arsenal ...	53,000
	General ...	General ...	107	Reserve	...
				TOTAL ORDNANCE WORKS ...	...
				Marine Buildings.	
Marine	Bombay Dock-yard.	Bombay ...	108	Deepening Duncan Dock ...	4,50,088
	Ditto ...	Ditto ...	109	Extension of Boiler-shop for new Coppersmith's and Blacksmith's shops.	...
	Fort William ...	Kidderpore ...	110	Shed for the reception of steel plates	...
	Ditto ...	Ditto ...	111	Extension of Torpedo stores building to be used as brass foundry and Core-drying shed.	7,002
	General ...	General ...	112	Reserve balance ...	...
				TOTAL MARINE ...	...
				OTHER MAJOR WORKS IN PROGRESS, 1892-93, TOTALLING UP TO REVISED ESTIMATE.	...
				TOTAL MAJOR WORKS ...	...

Director General,
Military Work.

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I—*contd.*

Original Works, for the year 1893-94—contd.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	13,00,408	13,65,100	7,78,400	21,43,500		
...	1,31,126	90,700	1,95,200	2,85,900		
...	...	...	4,000	4,000	102	Estimate not yet sanctioned.
...	3,000	10,500	...	10,500	103	Estimate not yet sanctioned.
...	3,300	600	...	600	104	Estimate not yet sanctioned.
...	...	...	11,200	11,200	105	Estimate not yet sanctioned.
...	...	...	35,800	35,800	106	Project under preparation.
...	...	10,000	*32,000	42,000	107	* Includes Rs. 26,600 provided in preliminary issue of Budget for buildings in Rangoon Arsenal, as under :— Rs. New office ... ... 13,500 Building for Issue Department and pattern room ... 13,100 26,600
...	1,37,426	1,11,800	2,78,200	3,90,000		
73,130	2,48,100	94,000	...	94,000	108	Project sanctioned in Military Department No. 2163-M. W., dated 1st September 1890.
...	...	...	20,000	20,000	109	
...	...	...	5,000	5,000	110	Estimate will be sanctioned by Superintending Engineer.
...	...	...	7,000	7,000	111	Estimate sanctioned by Superintending Engineer's No. 5437, dated 6th August 1892.
...	...	4,000	...	4,000	112	For completing unfinished works of 1892-93 for which no provision is made.
...	2,48,100	98,000	32,000	1,30,000		
...	16,21,660	...	...	...		
...	†33,07,594	15,74,900	10,88,600	26,62,500		† Excluding Upper Burma Works.

Imperial,
Military Works.

PART

Detail of the Budget Estimate for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				Brought forward ...	...
				Minor Works.	
Minor Works ...	General ...	Bengal ...	113	Ordinary requirements ...	...
			114	Commissariat ditto	...
			115	Ordnance ditto	...
			116	Marine ditto	...
				TOTAL ...	...
	General ...	Madras ...	117	Ordinary requirements ...	...
			118	Ordnance ditto	...
			119	Commissariat ditto	...
				TOTAL ...	...
	General ...	Bombay ...	120	Ordinary requirements ...	...
			121	Ordnance ditto	...
			122	Marine ditto	...
			123	Commissariat ditto	...
				TOTAL ...	...
				TOTAL MINOR WORKS ...	...
				GRAND TOTAL ORIGINAL WORKS ...	...

40 Director General,
Military Works.

I—*concld.*

Original Works, for the year 1893-94—concld.

Outlay.		Grant, 1893-94.			Item No.	Remarks and references.
Actual to end of 1891-92.	Probable during 1892-93.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	33,07,594	15,74,900	10,88,600	26,63,500		
...	2,78,235	...	2,48,500	2,48,500	113	
...	26,650	...	23,000	23,000	114	
...	46,787	...	35,000	35,000	115	
...	6,600	...	9,000	9,000	116	
...	3,58,272	...	3,15,500	3,15,500		
...	74,600	...	49,000	49,000	117	
...	15,000	...	15,000	15,000	118	
...	7,000	...	10,000	10,000	119	
...	96,600	...	74,000	74,000		
...	85,984	...	58,000	58,000	120	
...	10,000	...	10,000	10,000	121*	
...	2,500	...	5,000	5,000	122	
...	4,000	...	7,000	7,000	123	
...	1,02,434	...	80,000	80,000		
...	5,57,306	...	4,69,500	4,69,500		
...	38,64,900*	15,74,900	15,58,100	31,33,000		

* Excluding Upper Burma works.

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and orks.
				MAJOR WORKS.
				ACCOMMODATION FOR TROOPS.
				General.
Accommodation for troops.	Fort William ...	Fort William ...	1	Hanging punkahs on Mortimer's system ...
	Jubbulpore ...	Jubbulpore ...	2	Additional accommodation for British Infantry ...
	Ditto ...	Ditto ...	3	Fitting punkahs on Mortimer's system ...
	Murree ...	Kaldunnah ...	4	Hut accommodation ... ...
	Ditto ...	Thobba ...	5	Hut accommodation—
				i.—Barrack buildings ... ...
				ii.—Officers' quarters ... ...
				iii.—Hospital ... ...
	Bareilly ...	Ranikhet ...	6	Hut accommodation—
				i.—Barrack buildings ... ...
				ii.—Officers' quarters ... ...
	Multan ...	Multan ...	7	Additions and alterations to buildings in the Fort for accommodation of the new Heavy Battery.
	Meerut ...	Meerut ...	8	Providing fire-places in the family quarters in the remodelled barracks.
	Jhansi ...	Jhansi ...	9	Additional accommodation for British Infantry in the Fort.
	Peshin ...	Khojack ...	10	Accommodation for a Regiment of Native Infantry.
	Local Public Works Department.	Purandhar ...	11	Providing gutters to certain barracks ...
	Bareilly ...	Almora ...	12	Public buildings for 2-3rd Goorkhas ...
	Murree ...	Khyragully and Thobba	13	Huts for Native drivers of Mountain Battery ...
	Quetta ...	Drug ...	14	Constructing a Post for Native troops ...
	Bangalore ...	Bangalore ...	15	Native Cavalry Lines ... ...
	Poona ...	Kirki ...	16	Additional buildings for Sappers and Miners ...
	Aden ...	Crater ...	17	Native Infantry Lines.
				Total ...

Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
3,513	...	2,800	1	Estimate sanctioned in Superintending Engineer's No. 5357, dated 5th August 1892.
67,190	43,824	6,900	2	Project sanctioned in Military Department letter No. 1128-M.W., dated 14th June 1890.
7,014	...	4,500	3	Estimate sanctioned by Superintending Engineer.
2,59,745	1,98,750	7,650	4	Project sanctioned in Military Department letter No. 2505-M.W., dated 3rd October 1890.
91,715	17,400	10,000	5	i.—Project sanctioned in Military Department letter No. 2088-M.W., dated 23rd August 1890.
36,614				ii.—Project sanctioned in Military Department letter No. 2079-M.W., dated 23rd August 1890.
55,566				iii.—Project sanctioned in Military Department letter No. 882-M.W., dated 15th April 1891.
1,83,895				
1,83,664	1,47,092	28,000	6	i.—Project sanctioned in Military Department letter No. 281-M.W., dated 1st February 1890.
37,117	...			ii.—Project sanctioned in Military Department letter No. 3118-M. W., dated 25th November 1891.
...	...	20,547	7	Estimate not yet sanctioned, but work commenced under authority of Military Department No. 133-C., dated 19th January 1893.
6,871	...	6,900	8	Estimate sanctioned in Superintending Engineer's No. 2902, dated 29th July 1892.
36,000	2,650	28,000	9	Estimate sanctioned in Military Department No. 2523-M.W., dated 24th September 1891.
...	1,15,029	4,000	10	Estimate amounting to Rs. 33,786 for two companies at Shalabagh sanctioned in Military Department No. 2429-M.W., dated 15th September 1891. Further estimates required.
2,747	...	2,747	11	Estimate sanctioned by Bombay Government.
...	286	1,000	12	Project cancelled.
20,785	...	9,000	13	Estimates sanctioned in Director General of Military Works' Nos. 845-B., dated 19th March 1890, 457-B., dated 30th January 1891, and 3096-B., dated 18th August 1892.
5,925	3,187	2,800	14	Estimate sanctioned in Military Department letter No. 865-M.W., dated 21st March 1892.
42,806	40,265	800	15	Estimate sanctioned to extent of Rs. 42,806, *vide* Chief Engineer's No. 4788, dated 9th June 1891.
19,200	...	16,000	16	Estimate sanctioned in Military Department No. 1831-M.W., dated 23rd July 1891.
1,41,219	1,22,273	17,600	17	Estimate sanctioned in Military Department No. 843-M.W., dated 14th March 1893.
...	...	1,64,244		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Officers' quarters.
Officers' quarters.	Fort William ...	Fort William ...	18	Additions and improvements to His Excellency the Commander-in-Chief's quarters.
	Ditto ...	Ditto ...	19	Improvements to Commander-in-Chief's office ...
	Chaknata ...	Delira ...	20	Purchase of two houses in the Body-guard Lines
	Quetta ...	Quetta ...	21	Constructing three blocks of four unit quarters for officers.
	Zhob ...	Fort Sandeman ...	22	Constructing Officers' quarters ... ...
				TOTAL ...
				Hospitals.
Hospitals	Fort William ...	Buxa ...	23	Constructing Native Infantry Hospital ...
	Poona ...	Poona ...	24	Hospital Quarter-guard ... ...
	Mhow ...	Kamptí ...	25	Hospital servant's quarters ... ...
	Karachi ...	Karachi ...	26	Constructing Laundry and Dhobis' quarters ...
	Bombay ...	Deolali ...	27	Constructing Hospital Assistant's quarters ...
	Lahore ...	Mian Mir ...	28	Adapting the dispensary as a Cantonment General Hospital.
	Bareilly ...	Bareilly ...	29	Completing buildings required for the Cantonment General Hospital.
	Allahabad ...	Allahabad ...	30	Formation of Cantonment General Hospital ...
	Jubbulpore ...	Jubbulpore ...	31	Formation of Cantonment General Hospital ...
	Peshawar ...	Peshawar ...	32	Formation of Cantonment General Hospital ...
	Lucknow ...	Lucknow ...	33	Cantonment General Hospital ... ...
	Amballa ...	Amballa ...	34	Cantonment General Hospital ... ...
	Rawalpindi ...	Rawalpindi ...	35	Cantonment General Hospital ... ...
	Lahore ...	Mian Mir ...	36	Providing additional storage accommodation, Medical Store Depôt. ...
	Rangoon ...	Rangoon ...	37	New hospital for women and children ...
				TOTAL ...

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
5,795	...	5,500	18	Estimate sanctioned in Superintending Engineer's No. 3555, dated 3rd June 1892.
4,689	...	4,600	19	Estimate sanctioned in Superintending Engineer's No. 6312, dated 3rd September 1892.
13,153	...	12,200	20	Purchase sanctioned by Government.
54,122	54,097	4,200	21	Estimate sanctioned in Military Department No. 1826-M.W., dated 25th July 1890.
30,000	26,009	4,000	22	Work sanctioned in Military Department No. 3343-M.W., dated 16th December 1891.
...	...	31,500		
17,974	17,490	1,400	23	Estimate sanctioned in Director General's No. 2800-B., dated 16th August 1890.
4,363	...	3,000	24	Estimate sanctioned by Chief Engineer.
4,144	...	3,000	25	Estimate sanctioned by Chief Engineer.
3,188	...	3,100	26	Estimate sanctioned by the Superintending Engineer.
5,000	...	5,000	27	Estimate will be sanctioned by Chief Engineer.
8,350	...	8,350	28	Estimate sanctioned in Military Department No. 2253-M.W., dated 4th August 1892.
6,073	...	6,073	29	Estimate sanctioned in Military Department No. 2758-M.W., dated 20th September 1892.
3,135	...	3,135	30	Estimate sanctioned in Military Department No. 2757-M.W., dated 20th September 1892.
9,170	...	8,270	31	Estimate sanctioned in Military Department No. 2757-M.W., dated 20th September 1892.
4,045	...	4,045	32	Estimate sanctioned in Military Department No. 2757-M.W., dated 20th September 1892.
12,846	6,758	6,000	33	Estimate sanctioned in Superintending Engineer's No. 2643, dated 23rd April 1892.
14,466	9,511	5,000	34	Estimate sanctioned in Superintending Engineer's No. 530, dated 28th September 1892.
29,629	3,574	24,120	35	Estimate sanctioned in Superintending Engineer's No. 3557, dated 5th August 1892.
9,148	...	9,000	36	Estimate sanctioned by Superintending Engineer.
14,000	...	14,000	37	Purchase of signal Pagoda house sanctioned in Military Department No. 2299-M.W., dated 10th August 1892.
...	...	98,493		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Stables and Gun-sheds.
Gun-sheds	Barrackpore ...	Barrackpore ...	38	New stables for Royal Artillery ... ...
	Ditto ...	Ditto ...	39	Flooring Royal Artillery Stables... ...
	Meerut ...	Meerut ...	40	Gun-sheds for Royal Artillery ... ...
	Lucknow ...	Lucknow ...	41	Constructing a stable for 30 horses in the Royal Artillery Lines.
	Jhansi ...	Nowgong ...	41*a*	Constructing a horse Infirmary for Native Cavalry
	Fort William ...	Ballygunge ...	42	Forge and shoeing shed in Body-guard Lines ...
				TOTAL ...
				Auxiliary requirements.
	Peshawar ...	Peshawar ...	43	Guard-room for central magazine ...
	Quetta ...	Quetta ...	44	Quarter-guard, Cells and Armourers' shop, right Native Infantry Lines.
	Ditto ...	Ditto ...	45	Quarter-guard, Cells and Armourers' shop, left Native Infantry Lines.
	Jubbulpore ...	Puchmari ...	46	Armoury and school room, for musketry school
	Bombay ...	Colaba ...	47	Drill and lecture room, Royal Artillery ...
	Poona ...	Kirkee ...	48	Constructing instruction room for Bombay Sappers and Miners.
	Belgaum ...	Belgaum ...	49	Constructing lavatories in the old British Infantry Lines.
	Madras ...	Madras ...	50	Providing bath rooms in married quarters, canteen and servants' quarters, British Infantry Lines.
	Jullundhur ...	Bhagsu ...	51	Institute accommodation for British Infantry ...
	Rawalpindi ...	Rawalpindi ...	52	Institute Church Lines ... ...
	Ferozepore ...	Ferozepore ...	53	Garrison Institute at Fort ... ...
	Bareilly ...	Chowbuttia ...	54	Constructing Regimental Institute ...
	Ditto ...	Bareilly ...	55	Completing British Infantry Institute (Liquor bar).
	Meerut ...	Meerut ...	56	Remodelling and reroofing No. 27 Institute, Royal Artillery Lines.
				TOTAL ...

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
30,740	24,184	4,600	38	Estimate sanctioned in Director General of Military Works' No. 2557-B., dated 2nd August 1890.
4,190	...	4,200	39	Estimate sanctioned in Superintending Engineer's No. 7803, dated 3rd November 1892.
32,403	...	32,400	40	Estimate sanctioned in Director General of Military Works' No. 1320-B., dated 24th March 1892.
7,178	...	7,000	41	Estimate sanctioned by the Superintending Engineer.
5,328	...	5,000	41*a*	Estimate sanctioned in Superintending Engineer's No. 4281, dated 25th November 1892.
5,280	...	5,000	42	Estimate sanctioned in Superintending Engineer's letter No. 3802, dated 10th June 1892.
...	...	58,200		
6,345	...	6,000	43	Estimate sanctioned by Superintending Engineer.
11,780	...	9,460	44	Estimate sanctioned in Director General's No. 2947-B., dated 26th July 1892.
10,100	...	10,000	45	Estimate sanctioned in Military Department No. 1691-M.W., dated 11th July 1891.
4,550	...	500	46	Estimate sanctioned in Military Department No. 3810-M.W., dated 30th December 1892.
7,000	...	2,000	47	Estimate sanctioned by Chief Engineer.
2,864	...	2,800	48	Estimate sanctioned in Military Department No. 1713-M.W., dated 17th June 1892.
15,834	...	15,800	49	Estimate sanctioned by Chief Engineer.
3,518	...	3,500	50	Estimate sanctioned by Chief Engineer.
5,474	...	4,200	51	Estimate sanctioned in Military Department letter No. 1534-M.W., dated 30th May 1892.
6,875	...	6,500	52	Estimate sanctioned in Military Department No. 1030-M.W., dated 8th June 1892.
25,487	...	24,000	53	Estimate sanctioned in Director General of Military Works' No. 3854-B., dated 31st October 1892.
15,553	14,250	1,100	54	Estimate sanctioned in Military Department No. 1949-M.W., dated 4th August 1891.
14,451	12,000	1,800	55	Estimate sanctioned in Director General of Military Works' No. 4860-B., dated 26th November 1891.
15,796	12,241	2,400	56	Estimate sanctioned in Military Department No. 1943-M.W., dated 4th August 1891.
...	...	90,000		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification	Executive Division.	Locality.	Item No.	Projects and Works.
				RENEWALS AND IMPROVEMENTS.
				Presidency and Oudh Command.
Renewals and improvements.	Fort William ...	Jallapahar ...	57	Reroofing No. 20 Barrack, Convalescent Depôt
	Lucknow ...	Lucknow ...	58	Reroofing No. 1 married men's Barracks, Royal Artillery Lines.
	Lucknow ...	Lucknow ...	59	Reroofing and converting No. 1 family Barrack into single men's Barrack, right British Infantry Lines.
	Lucknow ...	Lucknow ...	60	Reroofing and converting No. 4 Barrack, right British Infantry Lines.
	Lucknow ...	Cawnpore ...	61	Reroofing No. 10 Block, Royal Artillery Stables
	Jubbulpore ...	Jubbulpore ...	62	Providing new doors and frames for No. 2 Barrack, British Infantry Lines.
	Jubbulpore ...	Pachmari ...	63	Reroofing Nos. 3 and 4 Barracks ... ...
	Barrackpore ...	Dum Dum	64	Improvements to No. 24 Cooking-range ...
	Allahabad ...	Benares ...	65	Reroofing No. 7 Gymnasium ... ...
	Allahabad ...	Benares ...	66	Reroofing Quarter-guard, British Infantry Lines...
				Meerut Command.
	Meerut ...	Meerut ...	67	Reroofing No. 42 Staff Sergeant's quarters, Royal Artillery Lines.
	Meerut ...	Meerut ...	68	Reroofing No. 55 building, British Infantry Lines.
	Meerut ...	Meerut ...	69	Reroofing No. 29 Barrack, British Infantry Lines.
	Meerut ...	Muttra ...	70	Reroofing Nos. 1 and 2 Station Hospitals ...
	Meerut ...	Muttra ...	71	Reroofing Nos. 92 and 93 British Cavalry Stables
	Agra ...	Agra ...	72	Reroofing No. 10 Station Hospital ...
				Carried over ...

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
12,984	...	8,500	57	Estimate sanctioned in Director General of Military Works' No. 358-B., dated 2nd February 1893.
24,673	...	24,900	58	Estimate sanctioned in Director General of Military Works' No. 1355-B., dated 7th May 1890.
28,606	...	28,900	59	Estimate sanctioned in Director General of Military Works' No. 3093-B., dated 10th August 1892.
25,596	...	27,000	60	Estimate sanctioned in Director General of Military Works' No. 3093-B., dated 10th August 1892.
13,112	...	13,000	61	Estimate sanctioned in Director General of Military Works' No. 481-B., dated 20th February 1890.
2,850	...	2,500	62	Estimate sanctioned in Superintending Engineer's No. 4177, dated 4th July 1890.
31,050	31,209	1,500	63	Estimate sanctioned in Director General of Military Works' No. 4056-B., dated 19th November 1890.
2,650	...	2,600	64	Estimate sanctioned by the Superintending Engineer.
7,411	6,644	800	65	Estimate sanctioned by Superintending Engineer.
3,019	...	3,000	66	Estimate sanctioned in Superintending Engineer's No. 5348, dated 5th August 1892.
4,275	3,201	400	67	Estimate sanctioned in Superintending Engineer's No. 4068, dated 5th November 1891.
14,356	...	13,000	68	Estimate sanctioned in Director General of Military Works' No. 3079-B., dated 13th October 1892.
5,093	...	4,600	69	Estimate sanctioned by the Superintending Engineer.
23,846	22,478	2,000	70	Estimate sanctioned.
24,360	...	12,400	71	Estimate sanctioned in Director General's No. 6479-B., dated 12th February 1891.
10,660	...	10,600	72	Estimate sanctioned in Director General of Military Works' No. 1365-B., dated 24th March 1891.
...	...	1,55,760		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Brought forward ...
Renewals, &c.—*contd.*	Agra ...	Agra ...	73	Reroofing No. 21 Orderly-room ... ...
	Agra ...	Agra ...	74	Rebuilding servants' houses of 10 and 11 Station Hospitals.
	Barielly ...	Bareilly ...	75	Reroofing No. 18 Station Hospital ...
	Bareilly ...	Naini Tal ...	76	Renewing roofs of Depôt buildings ...
	Jhansi ...	Nowgong ...	77	Remodelling Native Cavalry Hospital ...
				Sirhind and Lahore Command.
	Amballa ...	Amballa ...	78	Reroofing and remodelling No. 51 Section Hospital.
	Amballa ...	Amballa ...	79	Claim of Than Singh Contractor for reroofing No. 3 British Infantry Barrack decreed by Chief Court, Punjab.
	Amballa ...	Kasauli ...	80	Reroofing No. 1 Hospital ... ...
	Amballa ...	Dagshai ...	81	Reroofing No. 23 Depôt barrack ... ...
	Amballa ...	Dagshai ...	82	Reroofing the old portion of Military Prison ...
	Amballa ...	Dagshai ...	83	Reroofing No. 20 married men's Barrack ...
	Amballa ...	Dagshai ...	84	Reroofing No. 21 married men's Barrack ...
	Amballa ...	Dagshai ...	85	Reroofing No. 19 Barrack ... ...
	Amballa ...	Dagshai ...	86	Reroofing No. 22 Barrack ... ...
	Amballa ...	Dagshai ...	87	Reroofing No. 24 Depôt Barrack ...
	Amballa ...	Jutogh ...	88	Reroofing part of the Station Hospital ...
	Multan ...	Multan ...	89	Renewing Arm-racks in British Infantry Barracks
				Rawalpindi Command.
	Rawalpindi ...	Rawalpindi ...	90	Reroofing No. 73 Station Hospital ...
	Rawalpindi ...	Rawalpindi ...	91	Reroofing No. 62 Medical Subordinate's quarters
	Rawalpindi ...	Rawalpindi ...	92	Reroofing No. 51 Canteen, British Infantry Lines
	Rawalpindi ...	Rawalpindi ...	93	Reroofing No. 12 Royal Artillery School ...
	Rawalpindi ...	Rawalpindi ...	94	Reroofing No. 6 Barrack, British Infantry Lines
	Rawalpindi ...	Sialkote ...	95	Reroofing No. 8 Barrack, British Cavalry Lines
				Carried over ...

Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
...	.....	1,55,760		
5,894	...	5,900	73	Estimate sanctioned by the Superintending Engineer.
2,909	1,930	500	74	Estimate sanctioned by the Superintending Engineer.
3,500	...	3,500	75	Estimate will be sanctioned by the Superintending Engineer.
11,804	...	12,460	76	Estimate will be sanctioned by the Superintending Engineer.
8,874	...	8,000	77	Estimate will be sanctioned by the Superintending Engineer.
6,000	...	6,000	78	Estimate will be sanctioned by the Superintending Engineer.
1,715	...	1,700	79	Estimate sanctioned in Military Department No. 826-M.W., dated 13th March 1893.
8,206	1,815	6,000	80	Estimate sanctioned in Superintending Engineer's No. 344, dated 13th June 1892.
3,299	...	2,900	81	Estimate sanctioned by the Superintending Engineer.
5,588	...	5,100	82	Estimate sanctioned by the Superintending Engineer in No. 598, dated 5th November 1892.
4,259	...	4,000	83	Estimate sanctioned in Superintending Engineer's No. 714, dated 17th December 1892.
6,900	...	6,600	84	Estimate sanctioned in Superintending Engineer's No. 714, dated 17th December 1892.
3,500	...	4,000	85	Estimate sanctioned in Superintending Engineer's No. 455, dated 4th August 1892.
6,789	...	2,700	86	Estimate sanctioned in Superintending Engineer's No. 321, dated 3rd June 1892.
6,789	...	2,700	87	Estimate sanctioned in Superintending Engineer's No. 321, dated 3rd June 1892.
3,029	...	3,000	88	Revised estimate sanctioned in Superintending Engineer's No. 150, dated 1st February 1893.
4,888	...	4,800	89	Estimate will be sanctioned by Superintending Engineer.
11,884	...	12,000	90	Estimate sanctioned in Director General of Military Works' No. 1897-B., dated 7th May 1892.
4,126	...	5,300	91	Estimate sanctioned in Superintending Engineer's No. 2375, dated 12th May 1891.
6,363	...	6,000	92	Estimate sanctioned in Superintending Engineer's No. 1633, dated 24th February 1891.
2,520	...	2,500	93	Estimate sanctioned in Superintending Engineer's No. 1917, dated 15th April 1891.
21,722	...	19,500	94	Estimate sanctioned in Director General of Military Works' No. 949-B., dated 26th February 1891.
12,633	...	12,500	95	Estimate sanctioned in Director General of Military Works' No. 1473, dated 1st April 1891.
...	...	2,93,420		

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Brought forward ...
Renewals, &c.—*contd.*	Rawalpindi ...	Sialkote ...	96	Reroofing No. 1 Barrack, Royal Artillery Lines ...
	Rawalpindi ...	Sialkote ...	97	Reroofing No. 2 Barrack ... ...
	Murree ...	Campbellpore ...	98	Restoring No. 60 Staff Sergeant's quarters ...
	Murree ...	Campbellpore ...	99	Renewing punkahs in certain buildings ...
	Murree ...	Cliffden ...	100	Reroofing Hospital buildings ... ...
	Murree ...	Changlagully ...	101	Reroofing buildings ... ...
	Murree ...	Baragully ...	102	Reroofing certain buildings ... ...
	Murree ...	Kalabagh ...	103	Reroofing, &c., No. 10 female hospital ...
	Peshawar ...	Peshawar ...	104	Restoring Nos. 15, 16, 17 and 18 Barracks, right British Infantry Lines.
	Peshawar ...	Peshawar ...	105	Restoring No. 15 Family Barrack, left British Infantry Lines.
	Peshawar ...	Peshawar ...	106	Reroofing No. 41 Hospital Guard-room ...
				Baluchistan Command.
	Quetta ...	Quetta ...	107	Reroofing Nos. 2 and 3 Barracks, Sappers and Miners Lines.
				Madras Command.
	Madras ...	Fort St. George	108	Remodelling British Infantry cook-houses ...
	Madras ...	Fort St. George	109	Remodelling British Infantry Regimental Cells ...
	Bangalore ...	Bangalore ...	110	Remodelling British Infantry cook-houses ...
	Belgaum ...	Belgaum ...	111	Renewing the planked upper floor of double-storied barracks (c).
	Belgaum ...	Belgaum ...	112	Reroofing roof of No. 11 Barrack in old part of British Infantry Lines.
	Belgaum ...	Bellary ...	113	Renewing roofs of Royal Artillery barracks.
	Secunderabad ...	Secunderabad ...	114	Remodelling Royal Artillery and British Infantry cook-houses.
	Secunderabad ...	Secunderabad ...	115	Renewing roofs of 1 block of Subaltern's quarters, 1st British Infantry Lines and of 2 blocks of 2nd British Infantry Lines.

Carried over

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
...	...	2,93,420		
9,903	...	10,000	96	Estimate sanctioned in Director General of Military Works' No. 2195-E., dated 21st May 1891.
11,918	...	12,000	97	Estimate sanctioned in Director General of Military Works' No. 2195-E., dated 21st May 1891.
3,904	...	4,000	98	Estimate sanctioned in Superintending Engineer's No. 2081, dated 23rd April 1891.
4,409	...	430	99	Estimate will be sanctioned by Superintending Engineer.
3,842	...	3,500	100	Estimate sanctioned in Superintending Engineer's No. 3775, dated 16th October 1890.
4,901	3,066	1,800	101	Estimate sanctioned by Superintending Engineer.
2,847	...	2,700	102	Estimate sanctioned by Superintending Engineer.
8,665	6,802	500	103	Estimate sanctioned by Superintending Engineer.
5,678	2,981	2,000	104	Estimate sanctioned by Superintending Engineer.
34,671	...	1,500	105	Estimate sanctioned in Director General's No. 2015-B., dated 13th May 1891.
4,954	...	4,700	106	Estimate sanctioned by Superintending Engineer, *vide* his No. 5175, dated 29th October 1891.
9,974	...	9,100	107	Estimate sanctioned by the Superintending Engineer.
6,543	...	6,500	108	Estimate sanctioned in Chief Engineer's No. 3009, dated 16th April 1892.
8,019	...	7,000	109	Estimate sanctioned by the Chief Engineer.
4,302	...	4,300	110	Estimate sanctioned in Chief Engineer's No. 4908, dated 17th June 1892.
8,904	...	8,800	111	Revised Estimate sanctioned by Chief Engineer.
8,993	...	7,700	112	Estimate sanctioned in Chief Engineer's No. 3327, dated 26th April 1892.
16,836	4,464	9,500	113	Estimate sanctioned in Chief Engineer's No. 5841, dated 9th July 1892.
17,576	...	13,100	114	Estimates sanctioned in Chief Engineer's No. 3339, dated 27th April 1892, and No. 783, dated 12th January 1893.
8,122	...	8,500	115	Estimates sanctioned in Chief Engineer's Nos. 4894 and 4900, dated 17th June 1892.
...	...	4,11,050		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Brought forward ...
Renewals, &c.—*concld.*	Secunderabad ...	Secunderabad ...	116	Substituting plank for plaster ceilings in British Cavalry Lines.
	Rangoon ...	Rangoon ...	117	Reroofing No. 5 Royal Artillery Institute ...
	Rangoon ...	Rangoon ...	118	Reroofing Nos. 7 and 8 Barracks, Madras Infantry Lines.
				Bombay Command.
	Bombay ...	Colaba ...	119	Improvements to officers' quarters ... ...
	Poona ...	Ghorpuri ...	120	Reroofing old set of barracks ... ...
	Poona ...	Kirki ...	121	Reroofing riding school ... ...
	Mhow ...	Kampti ...	122	Reroofing Station Hospital ... ...
	Mhow ...		123	Reroofing Block A and B Family quarters ...
	Aden ...	Zaila ...	124	Reroofing the Military zariba in the Somali Coast.
				TOTAL ...
				General Cantonment Works.
Water-supplies.	Allahabad ...	Allahabad ...	125	Extension of cantonment water-supply to the dairy farm, grass farm and commissariat slaughter-yard.
	Lucknow ...	Lucknow ...	126	Water-supply to Cantonment ... ...
	Chakrata ...	Dehra ...	127	Extension of water-supply ... ...
	Amballa ...	Amballa ...	128	Improvements to water-supply, Sadar Bazar ...
	Amballa ...	Amballa ...	129	Improving the Cantonment water-supply ...
	Lahore ...	Dunera ...	130	Contribution to Public Works Department, Punjab, for improved water-supply.
	Quetta ...	Rindli ...	131	Water-supply to encamping-ground ...
	Rawalpindi ...	Sialkote ...	132	Preliminary expenses in connection with water-supply scheme.
				Carried over ...

Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
...	...	4,11,050		
3,246	...	3,000	116	Estimate sanctioned in Chief Engineer's No. 3832, dated 12th May 1892.
3,574	...	3,500	117	Estimate sanctioned in Chief Engineer's No. 3222, dated 22nd April 1892.
6,029	...	6,000	118	Estimate sanctioned in Chief Engineer's No. 3224, dated 22nd April 1892.
13,540	...	8,000	119	Estimate sanctioned by Chief Engineer.
14,500	...	11,700	120	Estimate sanctioned in Chief Engineer's No. 6193, dated 19th December 1892.
...	...	400	121	
8,404	...	3,500	122	Estimate sanctioned in Chief Engineer's No. 399, dated 18th January 1893.
3,855	...	3,800	123	Estimate sanctioned in Chief Engineer's No. 5875, dated 5th Decem-
12,886	5,672	7,200	124	Estimate sanctioned by Chief Engineer.
...	...	4,58,150		
5,070	...	2,200	125	Estimate sanctioned in Military Department No. 2014-M.W., dated 12th July 1892.
4,03,525	...	18,010	126	Rs. 2,812 payable by the farm. Approximate estimate sanctioned in Military Department No. 16-M.W., dated 4th January 1893.
22,200	20,068	3,000	127	Estimate sanctioned in Military Department No. 965-M.W., dated 23rd April 1892.
6,989	6,445	600	128	Revised Estimate sanctioned in Superintending Engineer's No. 441, dated 29th July 1892.
41,633	...	40,000	129	Estimate sanctioned in Director General of Military Works' No. 3517-B., dated 23rd September 1892.
2,500	...	2,500	130	Contribution sanctioned in Military Department No. 2082-M.W. dated 18th July 1892.
14,690	14,873	1,100	131	Estimate sanctioned in Director General of Military Works' No. 1675-B., dated 30th May 1890.
2,715	...	1,200	132	Estimate sanctioned in Director General of Military Works' No. 583-B., dated 20th February 1893.
...	...	68,640		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.		
				Brought forward ...	...	...	63,640		
Water-supplies—*contd.*	Quetta ...	Quetta ...	133	New karez and channels	26,930	...	24,800	133	Estimate sanctioned in Director General of Military Works' No. 3148-B., dated 16th August 1892.
	Aden ...	Aden ...	134	Renewing piping from Seera to the Isthmus for carriage of condensed water.	10,949	6,097	3,000	134	Estimate sanctioned by the Chief Engineer.
Cantonment road.	Loralai ...	Loralai ...	135	Constructing road from Cantonment to filth pits	2,587	222	2,300	135	Estimate sanctioned by Superintending Engineer.
Drainage	Fort William ...	Ballygunge ...	136	Improvements to drainage	3,315	756	2,900	136	Estimate sanctioned in Superintending Engineer's No. 1511, dated 8th March 1892.
	Fort William ...	Jallapahar ...	137	Work necessary to large slip near No. 3 water tank.	...	...	6,500	137	
	Agra ...	Agra ...	138	Improving drains in the British Infantry Lines ...	6,887	6,091	800	138	Estimate sanctioned by Superintending Engineer.
	Madras ...	Pallaveram ...	139	Cantonment drainage	3,929	2,291	1,600	139	Estimate sanctioned by Chief Engineer.
Rifle ranges	Bangalore ...	Bangalore ...	140	Constructing masonary drains in north Byaidurhulli Lines.	4,677	...	2,500	140	Estimate sanctioned by Chief Engineer.
	Barrackpore ...	Dum Dum ...	141	Constructing rifle range	3,957	...	3,900	141	Estimate sanctioned by Chief Engineer.
	Lucknow ...	Fyzabad ...	142	Constructing rifle range	3,279	2,354	1,000	142	Estimate sanctioned by Superintending Engineer.
				TOTAL ...	...	...	1,17,940		
				Roads to Hill Stations or Lines of Military Communication.					
Line of Communication.	Multan ...	Sher Shah ...	143	Rest-camp works	5,145	2,388	1,600	143	Estimate sanctioned by Superintending Engineer.
	Karachi ...	Karachi ...	144	Constructing roads and drains at Rest-camp ...	8,303	7,235	900	144	Estimate sanctioned by Chief Engineer.
	Karachi ...	Karachi ...	145	Latrine and urinaries in Rest-camp ...	2,511	1,342	1,200	145	Estimate sanctioned by Chief Engineer.
	Peshin ...	Saiad Hamid ...	146	Constructing a semi-permanent platform ...	2,573	...	600	146	Estimate sanctioned by the Superintending Engineer.
	Peshin ...	Chaman ...	147	Providing a troop platform	10,668	10,253	1,620	147	Estimate sanctioned in Military Department No. 1875-M. W., dated 23rd July 1891.
				TOTAL ...	...	...	5,920		
				Mobilization Works.					
Mobilization.	Lahore ...	Mian Mir ...	148	Constructing 500 running feet of storage accommodation.	20,663	...	15,700	148	Estimate sanctioned in Director General of Military Works' No. 4437-B., dated 23rd December 1892.
				Carried over ...	...	...	15,700		

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Imperial,
Mtary Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Brought forward ...
Mobilization—*contd.*	Ferozepore ...	Ferozepore ...	149	Constructing 80 R F shedding for Commissaria Stores.
	Peshawar ...	Peshawar ...	150	Water-supply and roads ...
	Peshawar ...	Peshawar ...	151	Storage of tools and plant ...
	Quetta ...	Quetta ...	152	Store-room for field hospital equipment ...
	Quetta (Civil) ...	Sibi ...	153	Water-supply ... ...
	Quetta ...	Kotal ...	154	Water-supply ... ...
	Peshin ...	Chaman ...	155	Raising and lengthening troop platform alon military Siding.
	Peshin ...	Chaman ...	156	Water-supply ... ...
	Peshin ...	New Chaman ...	157	Constructing officer's quarters ...
	Jubbulpore ...	Jubbulpore ...	158	Constructing a shed for field hospital equipment.
				TOTAL
				Staff and Miscellaneous.
Staff and Miscellaneous.	Rawalpindi ...	Rawalpindi ...	159	Constructing Military Account offices
	Allahabad ...	Allahabad ...	160	Improvements to Military Works godown
	Bareilly ...	Kumpur ...	161	Constructing a new Telegraph office
	Rawalpindi ...	Rawalpindi ...	162	Completing the additional gas works
	Quetta ...	Quetta ...	163	Quarters for Sergeant Instructor, Volunteer Cor
	Quetta ...	Quetta ...	164	Extending Lady Roberts' home for lady nurses
	Lucknow ...	Lucknow ...	165	Constructing quarters for lady nurses
	Allahabad ...	Allahabad ...	166	Accommodation for lady nurses ...
	Madras ...	Wellington ...	167	Purchase of lady Roberts' home for nurse sisters.
	Rangoon ...	Rangoon ...	168	Constructing lady nurses' quarters ...
	Lucknow ...	Cawnpore ...	169	Reroofing subdivisional Officer's quarters
				TOTAL

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay.		Item No.	Remarks and references.
	Actual to end of 1891-92.	Probable during 1892-93.		
Rs.	Rs.	Rs.		
...	...	15,700		
3,870	...	1,700	149	Estimate sanctioned by Superintending Engineer.
81,132	65,410	10,000	150	Estimate sanctioned in Military Department No. 2663-M.W., dated 13th September 1892.
32,500	30,799	1,000	151	Estimate sanctioned in Director General of Military Works' No. 1364-B., dated 28th March 1892.
8,612	5,976	1,800	152	Estimate sanctioned by Superintending Engineer.
1,12,660	71,123	42,100	153	Estimate sanctioned in Military Department No. 2197-M.W., dated 29th July 1892.
19,810	13,423	5,800	154	Estimate sanctioned in Director General of Military Works' No. 1471-B., dated 26th April 1892.
5,635	2,779	644	155	Accepted in Military Department No. 1582-M.W., dated 31st May 1892.
85,024	68,207	15,000	156	Estimate sanctioned in Military Department No. 2638-M.W., dated
71,870	67,782	9,400	157	Estimate sanctioned in Military Department No. 454-M.W., dated 13th February 1892.
3,317	1,945	1,300	158	Estimate sanctioned by Superintending Engineer.
...	...	1,04,444		
2,20,398	2,17,833	*2,500	159	Completion report sanctioned in Military Department No. 1932-M.W., dated 6th July 1892.* Year's allotment is for providing record racks.
2,673	...	2,500	160	Estimate sanctioned by Superintending Engineer.
2,687	...	2,500	161	Estimate sanctioned by Superintending Engineer.
23,225†	...	12,500	162	Estimate sanctioned in Military Department letter No. 1026-M.W., dated 28th April 1892.
4,522	...	1,500	163	† Rs. 8,225 at credit of manufacture.
6,147	...	4,800	164	Estimate sanctioned in Military Department No. 1669-M.W., dated 11th June 1892.
32,439	...	21,003	165	Estimate sanctioned in Military Department No. 930-B., dated 4th March 1892.
4,037	...	4,000	166	Estimate sanctioned in Superintending Engineer's No. 5536, dated 11th August 1892.
7,000	...	7,000	167	Estimate sanctioned in Director General of Military Works' No. 4172-B., dated 25th November 1892.
19,209	...	9,000	168	Estimate sanctioned by Chief Engineer.
8,183	...	8,000	169	Estimate sanctioned by Superintending Engineer.
...	...	75,300		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Stud buildings.
Stud buildings.	Fort William ...	Calcutta ...	170	Completing requirements of the Remount Depôt.
	Chakrata ...	Saharunpore ...	171	Constructing a new Granary at the Remount Depôt.
	Bangalore ...	Hosur ...	172	Purchase of Captain Brotherston's house, Remount Depôt.
				TOTAL ...
				Fortifications.
Fortifications.	Fort William ...	Fort William ...	173	Completing gates and entrances to Fort ...
	Allahabad ...	Benares ...	174	Completing gate fastenings and advanced gates and railings of the Block-houses of the Ganges bridge.
	Allahabad ...	Benares ...	175	Completing the gateway of the high level bridge.
	Allahabad ...	Kalpi ...	176	Supplementary work of gate fastenings at the Block-houses of the Jumna bridge.
	Lucknow ...	Lucknow ...	177	Defence of Executive Engineer's work-shop ...
	Lucknow ...	Fattehgarh ...	178	Protective works on river face of Fort ...
	Lucknow ...	Fattehgarh ...	179	Protective works on the ganges face of Fort ...
	Meerut ...	Delhi ...	180	Defence of Railway bridge and of the Entrance to Selimgarh outwork.
	Agra ...	Agra ...	181	Block-house at left abutment of Railway bridge over the Jumna.
	Jhansi ...	Jhansi ...	182	Rearranging defences of fort including improvements to interior.
	Secunderabad ...	Hyderabad ...	183	Residency Defence works (improvements to main buildings).
				TOTAL ...

Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
3,300	...	3,300	170	Estimate sanctioned in Superintending Engineer's No. 195, dated 13th February 1893.
10,661	...	5,600	171	Estimate sanctioned in Director General of Military Works' No. 3136-B., dated 14th September 1892.
2,666	...	2,700	172	Purchase sanctioned in Military Department No. 1873-M. W., dated 1st July 1892.
...	...	11,600		
5,851	1,702	1,000	173	Estimate sanctioned by the Superintending Engineer.
7,047	...	1,500	174	Estimate sanctioned in Military Department No. 568-M. W., dated 27th February 1892.
3,213	...	1,500	175	Estimate sanctioned by the Superintending Engineer.
634	...	600	176	Estimate sanctioned in Director General of Military Works' No. 24-C., dated 4th January 1893.
29,222	28,411	1,000	177	
4,931	1,608	2,900	178	Estimate sanctioned by Superintending Engineer.
11,431	...	3,300	179	Estimate sanctioned in Director General of Military Works' No. 903-B., dated 21st March 1893.
32,516 5,683	...	4,800	180	i.—Defence of bridge—Completion report approved in Director General of Military Works' No. 2034-C., dated 16th August 1892. ii.—Selimgarh outwork—Completion report accepted in Director General of Military Works' No. 2034-C., dated 16th August 1892.
14,085	...	12,700	181	Estimate sanctioned in Military Department No. 1778-M.W., dated 22nd June 1892.
15,558	...	2,300	182	Estimate sanctioned in Director General of Military Works' No. 1949-B., dated 4th August 1891.
14,010	4,675 9,472	700	183	
...	...	35,300		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Commissariat buildings
Commissariat.	Peshawar ...	Cherat-Chappree	184	Commissariat and Transport buildings ...
	Murree ...	Sunny Bank ...	185	Constructing store godowns ... ...
	Jhansi ...	Jhansi ...	186	Constructing a meat hanging shed ... ...
	Barrackpore ...	Dum Dum ...	187	Converting the beer godown into a Bakery ...
	Lucknow ...	Lucknow ...	188	Reroofing Bhoosa Godown ... ...
	Agra ...	Agra ...	189	Reroofing No. 9 Bhoosa Godown ... ...
	Meerut ...	Meerut ...	190	Reroofing No. 3 Commissariat Godown ...
	Quetta ...	Quetta ...	191	Constructing quarters for Bakery Establishment...
	Karachi ...	Keamari ...	192	Improvements necessary for the completion of the Commissariat troop yard.
	Aden ...	Aden ...	193	Reroofing Cattle sheds ... ...
	Madras ...	Madras ...	194	Constructing a Harness room on the Paduput Maidan.
	Madras ...	Wellington ...	195	Additions to Bakery ... ...
	Belgaum ...	Bellary ...	196	Additions to Transport Lines ... ...
	Rangoon ...	Rangoon ...	197	Converting No. 11 shed in Transport Lines into a sheep shed.
				TOTAL ...
				Ordnance Works.
Ordnance...	Barrackpore ...	Cossipore ...	198	New buildings for Foundry and Shell Factory ...
	Barrackpore ...	Cossipore ..	199	Cartridge metal casting shop in Foundry and Shell Factory.
	Barrackpore ...	Cossipore ...	200	Additional Guard-room and Cook-house for Police Guard at Foundry and Shell Factory.
	Barrackpore ...	Cossipore ...	201	Building a packing and fuze room and steam office at the Factory.
	Barrackpore ...	Cossipore ...	202	Erecting a Jetty for the Foundry and Shell Factory for landing and shipping ordnance.
				Carried over ...

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
37,666	36,262	2,000	184	Part of project sanctioned in Military Department letter No. 535-M.W., dated 5th May 1885.
42,343	33,162	8,900	185	Estimate sanctioned in Director General of Military Works' letter No. 2480-B., dated 30th July 1891.
3,569	...	3,500	186	Estimate sanctioned by Superintending Engineer.
3,668	...	3,700	187	Estimate sanctioned in Superintending Engineer's No. 6476, dated 8th September 1892.
16,606	4,115	9,000	188	Estimate sanctioned in Director General of Military Works' No. 1550-B., dated 8th April 1891.
2,700		2,700	189	Estimate will be sanctioned by the Superintending Engineer.
10,736	4,356	7,360	190	Estimate sanctioned in Director General of Military Works' No. 71-B., dated 7th January 1891.
4,767	...	4,500	191	Estimate sanctioned by Superintending Engineer.
19,680	...	15,300	192	Estimate sanctioned in Director General of Military Works' No. 1830-B., dated 1st May 1891.
10,451	1,787	8,200	193	Estimate sanctioned by Chief Engineer.
3,382	...	3,300	194	Estimate sanctioned by Chief Engineer.
4,004	...	4,000	195	Estimate sanctioned by Chief Engineer.
4,444	...	4,300	196	Estimate sanctioned in Chief Engineer's No. 7312, dated 13th September 1892.
3,571	...	3,500	197	Estimate sanctioned by Chief Engineer.
...	...	80,200		
1,73,394	1,52,805	11,200	198	Estimate sanctioned in Military Department letter No. 2945-M.W., dated 31st October 1891.
26,781	...	13,843	199	Estimate sanctioned in Military Department letter No. 827-M.W., dated 28th March 1891.
4,121	...	4,100	200	Estimate sanctioned in Superintending Engineer's No. 2649, dated 23rd April 1892.
4,125	...	4,100	201	Estimate sanctioned in Superintending Engineer's No. 5193, dated 26th July 1892.
4,564	...	4,500	202	Estimate sanctioned in Superintending Engineer's No. 7282, dated 14th October 1892.
...	...	37,743		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Brought forward ...
Ordnance—*contd.*	Barrackpore ...	Cossipore ...	203	Taking up land for bullock shed and latrine for Police Guard, Foundry and Shell Factory.
	Barrackpore ...	Ishapore ...	204	New Powder drying house in Gun-powder Factory.
	Barrackpore ...	Ishapore ...	205	Raising walls of and reroofing half-wrought barrel godown, Gun-powder Factory.
	Barrackpore ...	Ishapore ..	206	Settling tanks water-supply, Gun-powder Factory
	Barrackpore ...	Ishapore ...	207	Enclosure wall outside No. 2 Press-house and No. 2 granulating-house in Gun-powder Factory.
	Barrackpore ...	Ishapore ...	208	Constructing Dynamo house in the Gun-powder Factory.
	Barrackpore ...	Ishapore ...	209	Works in connection with the proof of prism and pebble powder.
	Barrackpore ...	Dum Dum ...	210	Improving water-supply to Small Arms Ammunition Factory.
	Barrackpore ...	Dum Dum ...	211	Additions and alterations to out-offices No. 69 Ordnance Subordinates' quarters.
	Barrackpore ...	Dum Dum ...	212	Constructing a boiler and engine-house at Small Arms Ammunition Factory.
	Lucknow ...	Cawnpore ...	213	Godown for miscellaneous stores at Harness and Saddle Factory.
	Lucknow ...	Cawnpore ...	214	Extension of currier's shop in Harness and Saddle Factory.
	Lucknow ...	Cawnpore ...	215	Reroofing quarters of Superintendent, Harness and Saddle Factory.
	Lucknow ...	Futtehgarh ...	216	Remodelling Chief Mechanical Engineer's quarters
	Lucknow ...	Futtehgarh ...	217	Alteration of Blacksmiths' shop in Gun Carriage Factory.
	Agra ...	Agra ...	218	Purchase of 5 bungalows at Chippetollah for warrant and non-commissioned officers.
	Ferozepore ...	Ferozepore ...	219	Connection of water tanks in the Arsenal ...
	Ferozepore ...	Ferozepore ...	220	Shed for storage of timber and packing cases in Arsenal.
	Ferozepore ...	Ferozepore ...	221	Fitting Gun-sheds with doors in the Arsenal ...
				Carried over ...

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—contd.

Amount of Estimate.	Outlay.		Item No.	Remarks and references.
	Actual to end of 1891-92.	Probable during 1892-93.		
Rs.	Rs.	Rs.		
...	...	37,743		
2,294	...	2,294	203	Revised Estimate Eanctioned in Director General of Military Works' No. 910-B., dated 22nd March 1893.
10,889	...	10,900	204	Project sanctioned in Director General of Military Works' No. 41-B., dated 7th January 1892.
2,919	...	2,900	205	Estimate sanctioned in Superintending Engineer's No. 6908, dated 20th October 1891.
...	...	2,700	206	
8,912	...	7,400	207	Estimate sanctioned in Superintending Engineer's No. 6649, dated 3rd October 1891.
10,327	...	9,900	208	Estimate sanctioned in Director General of Military Works' No. 2860-B., dated 19th July 1892.
8,592	5,850	2,800	209	Estimate sanctioned by Superintending Engineer.
8,430	...	2,100	210	Estimate sanctioned in Superintending Engineer's No. 4056, dated 20th June 1892. Completion cost Rs. 2,111.
4,940	...	4,900	211	Estimate sanctioned in Superintending Engineer's No. 4952, dated 20th July 1892.
8,879	6,063	2,800	212	Estimate sanctioned in Director General of Military Works' No. 3781, dated 10th October 1891.
...	...	2,800	213	Estimate will be sanctioned by Superintending Engineer.
13,816	...	9,830	214	Estimate sanctioned in Director General of Military Works' No. 911-B., dated 22nd March 1893.
13,615	...	12,880	215	Estimate sanctioned in Director General of Military Works' No. 874-B., dated 18th March 1893.
5,303	...	1,820	216	Estimate sanctioned in Superintending Engineer's No. 575, dated 21st January 1893.
...	...	3,480	217	Estimate under preparation.
6,233	...	6,000	218	Purchase sanctioned in Military Department letter No. 784-M.W., dated 15th March 1892, and estimate sanctioned in Superintending Engineer's No. 2290, dated 6th June 1892.
4,260	...	3,400	219	Estimate sanctioned in Superintending Engineer's No. 5, dated 7th January 1893.
15,820	...	5,600	220	Estimate sanctioned in Military Department No. 3813-M.W., dated 30th December 1892.
...	816	700	221	Estimate under preparation.
...	...	1,32,947		

Imperial,
Military Works.

Statement showing the details of the probable expenditure during 1892-93, on Major Works for

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.
				Brought forward ...
Ordnance—*concld.*	Rawalpindi ...	Rawalpindi ...	222	Corrugated sheet iron shed in work yard in Arsenal.
	Rawalpindi ...	Rawalpindi ...	223	Providing a 9' verandah in rear of Ordnance Subordinates' quarters in Arsenal.
	Poona ...	Kirki ...	224	Shed for storage of timber at Small Arms Ammunition Factory.
	Bombay ...	Bombay ...	225	New office at Gun-carriage Factory ...
	Bombay ...	Bombay ...	226	Constructing building for storage of filled shell for Her Majesty's ships.
	Bombay ...	Bombay ...	227	Constructing a powder drying-room ...
	Bombay ...	Bombay ...	228	Quarters for warrant and non-commissioned officers in the Arsenal.
	Madras ...	Madras ...	229	New saw-mills at Gun-carriage Factory ...
	Madras ...	Madras ...	230	Coal yard at Gun-carriage Factory ...
	Madras ...	Madras ...	231	Providing barbed wire fencing in front of quarters in Ordnance Lines.
	Belgaum ...	Bellary ...	232	Constructing quarters for Staff Sergeants in Arsenal.
	Rangoon ...	Rangoon ...	233	New Paulin-shed in Arsenal ... ...
	Rangoon ...	Rangoon ...	234	Magazine for quick-firing ammunition at Arsenal
				TOTAL ...
				Marine Works.
Marine ...	Bombay ...	Bombay ...	235	Double-storied fire roof godown for the storage of tar oil and tallow. ...
	Bombay Dockyard	Bombay ...	236	New latrines ... ...
	Fort William ...	Kidderpore ..	237	Constructing a trooping Jetty at the Dockyard ...
	Fort William ...	Kidderpore ...	238	Completing shed for graving Dock ... ...
	Fort William ...	Kidderpore ...	239	Extending No. 26 shed Dockyard ... ...
				TOTAL ...

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Director General,
Military Works.

Works which are not brought forward in Part I of the Budget Estimate for Original 1893-94—concld.

Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable during 1892-93.	Item No.	Remarks and references.
Rs.	Rs.	Rs.		
...	...	1,32,947		
3,739	...	3,700	222	Estimate sanctioned by the Superintending Engineer.
9,392	...	9,300	223	Estimate sanctioned in Superintending Engineer's No. 2023, dated 7th June 1892.
...	...	7,200	224	
24,910	17,868	1,500	225	Estimate sanctioned by Chief Engineer.
3,944	946	2,470	226	Estimate sanctioned by Chief Engineer.
4,716	3,207	1,000	227	Estimate sanctioned by Chief Engineer.
1,51,285	1,48,494	1,000	228	Revised Estimate sanctioned in Military Department No. 539-M.W., dated 3rd September 1891.
38,244	...	31,820	229	Estimate sanctioned in Director General of Military Works' No. 4548-B., dated 2nd November 1891.
8,425	...	8,000	230	Estimate sanctioned in Chief Engineer's No. 654, dated 27th January 1892.
4,705	...	4,700	231	Estimate sanctioned in Chief Engineer's No. 5142, dated 23rd June 1892.
41,939	35,019	6,900	232	Estimate sanctioned in Director General of Military Works' No. 4803-B., dated 23rd November 1891.
6,082	2,856	3,500	233	Estimate sanctioned by Chief Engineer.
...	...	9,100	234	
...	...	2,23,437		
20,444	...	20,000	235	Estimate sanctioned in Chief Engineer's No. 4144, dated 2nd September 1892.
5,339	...	3,000	236	Estimate sanctioned in Chief Engineer's No. 139, dated 9th January 1893.
46,725	28,000	18,400	237	Estimate sanctioned in Director General of Military Works' No. 2251-B., dated 23rd May 1892.
16,001	12,011	4,000	238	Estimate sanctioned in Director General of Military Works' No. 718-B., dated 20th February 1892.
3,218	...	3,200	239	Estimate sanctioned in Superintending Engineer's No. 8954, dated 17th December 1892.
...	...	48,600	...	

Abstract of the foregoing.

Heads of service.		Probable outlay, 1893-94.
I.—Accommodation for troops—		
1. General	Rs. 1,64,244	Rs. ...
2. Officers' quarters	31,500	
3. Hospitals	98,493	...
4. Stables and gun-sheds	58,200	...
5. Auxiliary requirements	90,000	...
6. Renewals and improvements	4,58,150	9,00,587
II.—General Cantonment works		1,17,940
III.—Roads to Hill stations or lines of Military Communication		5,920
IV.—Mobilization works		1,04,444
V.—Staff and Miscellaneous		75,300
VI.—Stud buildings		11,600
VII.—Fortifications		35,300
VIII.—Commissariat buildings		80,200
IX.—Ordnance buildings		2,23,437
X.—Marine buildings		48,600
		16,03,328
Unallotted balance		*18,332
TOTAL ...		16,21,660

* Includes Rs. 4,200 for Subathu mess-house which has not been utilized.

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PART II.

REPAIRS, MILITARY, 1893-94.

Imperial,
Military Works.

PART II.

Abstract of Estimate or Repairs for 1893-94 by Commands and Divisions.

Commands and Divisions.	Rent of Buildings.					Repairs to Buildings for Accommodation of Troops.			Repairs to Ordnance buildings.
	For accommodation of subordinates.	Compensation for inferior or deficient quarters.	For accommodation of troops.	Municipal taxes.	Total.	Special repairs.	Annual, quadrennial and petty repairs.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Presidency-Oudh Command—									
Fort William Division ...	3,210	9,350	...	29,700	42,260	27,000	49,000	76,000	8,000
Barrackpore ditto ...	14,290	7,460	...	3,100	24,850	5,000	17,000	22,000	15,000
Jubbulpore ditto ...	160	850	...	...	1,010	16,000	16,000	32,000	...
Allahabad ditto ...	240	690	...	...	930	13,000	24,000	37,000	1,900
Lucknow ditto ...	...	4,550	...	...	4,550	27,000	60,000	87,000	5,000
Total ...	17,900	22,900	...	32,800	73,600	88,000	1,66,000	2,54,000	29,900
Meerut Command—									
Meerut Division ...	1,000	500	3,000	30,000	34,500	1,500	3,000	4,500	...
Chakrata ditto ...	1,000	1,300	5,700	...	8,000	8,000	14,000	22,000	...
Agra ditto ...	800	700	...	...	1,500	2,000	12,000	14,000	2,000
Bareilly ditto ...	...	1,300	700	...	2,000	10,000	23,000	33,000	...
Jhansi ditto ...	1,000	500	...	...	1,500	30,000	9,000	39,000	...
Total ...	3,800	4,300	6,400	...	14,500	55,000	81,000	1,36,000	2,000
Sirhind-Lahore Command—									
Umballa Division ...	3,800	3,700	...	...	7,500	5,000	64,000	69,000	...
Jullundur ditto ...	400	100	200	...	700	1,000	17,000	18,000	...
Lahore ditto ...	2,800	1,900	100	...	4,800	3,000	33,000	36,000	...
Ferozepore ditto ...	2,100	1,000	200	...	3,300	1,000	15,000	16,000	1,800
Mooltan ditto ...	2,400	200	...	...	2,600	...	16,000	16,000	...
Total ...	11,500	6,900	500	...	18,900	10,000	1,45,000	1,55,000	1,800
Rawalpindi Command—									
Rawalpindi Division ...	4,000	1,120	300	...	5,420	20,000	35,000	55,000	2,500
Murree ditto ...	...	180	300	...	480	13,000	20,000	33,000	...
Peshawar ditto ...	800	...	...	...	800	27,000	38,000	65,000	...
Attock *Special Defence* Division. ...	...	...	...	...	...	...	...	...	...
Total ...	4,800	1,300	600	...	6,700	60,000	93,000	1,53,000	2,500
Carried over ...	38,000	35,400	7,500	32,800	1,13,700	2,13,000	4,85,000	6,98,000	36,200

Director-General,
Military Works.

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Repairs to Commissariat buildings.	Repairs to Staff and Miscellaneous buildings.	Repairs to Stud buildings.	Roads to Hill stations or lines of Military Communication.	General Cantonment Works.				Repairs to Fortifications.	Repairs to Dockyard and Naval buildings.	Petty repairs.	Total repairs, Military.
				Ordinary maintenance charges of Cantonment roads.	Special renewals of metalling to Cantonment roads.	Repairs to other Cantonment works.	Total.				
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
6,000	23,000	7,000	8,000	6,000	8,000	9,000	23,000	16,000	5,000	...	2,14,260
2,500	700	...	...	2,900	5,500	...	8,400	...	...	...	73,450
2,000	1,400	...	...	2,000	4,000	700	6,700	400	...	...	43,510
2,000	1,500	...	...	3,500	15,000	...	18,500	3,000	...	...	64,830
3,000	1,400	...	...	5,500	16,000	2,500	24,000	4,000	...	...	1,28,950
15,500	28,000	7,000	8,000	19,900	48,500	12,200	80,600	23,400	5,000	...	5,25,000
2,000	1,000	2,000	...	4,000	11,500	1,000	16,500	2,000	...	16,000	69,000
1,000	500	3,000	30,000	4,000	1,500	3,000	8,500	...	...	17,000	90,000
500	1,000	...	...	3,000	3,500	...	6,500	1,500	...	11,000	38,000
2,000	1,000	...	10,000	9,500	6,500	3,000	19,000	...	...	20,000	87,000
500	500	...	...	1,500	4,000	1,000	6,500	2,000	...	16,000	66,000
6,000	4,000	5,000	40,000	22,000	27,000	8,000	57,000	5,500	...	80,000	3,50,000
1,000	5,500	...	...	9,000	17,000	9,000	35,000	...	...	...	1,18,000
300	1,200	...	...	5,500	3,500	400	7,400	750	...	...	28,350
1,000	1,400	...	10,000	8,400	4,000	3,500	15,900	1,500	...	...	70,600
500	400	...	...	4,000	5,700	350	10,050	2,500	...	...	34,550
200	500	...	...	3,700	1,800	3,200	8,700	500	...	...	28,500
3,000	9,000	...	10,000	28,600	32,000	16,450	77,050	5,250	...	...	2,80,000
1,800	2,000	...	...	6,000	13,000	13,000	32,000	3,000	...	22,000	1,23,720
1,000	700	...	500	4,500	3,600	...	8,100	1,000	...	17,000	61,780
1,200	1,500	...	5,700	6,500	15,000	15,000	36,500	1,500	...	18,000	1,30,200
...	700	...	3,600	...	...	...	...	...	...	...	4,300
4,000	4,900	...	9,800	17,000	31,600	28,000	76,600	5,500	...	57,000	3,20,000
28,500	45,900	12,000	67,800	87,500	1,39,100	64,850	2,91,250	39,650	5,000	1,37,000	14,75,000

Imperial,
Military Works.

PART

Abstract of Estimate for Repairs for

Commands and Divisions.	Rent of Buildings.					Repairs to Buildings for Accommodation of Troops.			Repairs to Ordnance buildings.
	For accommodation of subordinates.	Compensation for inferior or deficient quarters.	For accommodation of troops.	Municipal taxes.	Total.	Special repairs.	Annual, quadrennial and petty repairs.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward ...	38,000	35,400	7,500	32,800	1,13,700	2,13,000	4,85,000	6,98,000	36,200
Beluchistan Command—									
Quetta Division ...	...	2,300	...	...	2,300	5,000	48,000	53,000	1,300
Loralai (Civil) ditto ...	...	...	...	...	...	...	10,000	10,000	...
Peshin ditto ...	...	...	...	...	...	5,000	7,800	12,800	...
Zhob (Civil) ditto ...	...	...	...	...	...	500	3,000	3,500	...
Total ...	...	2,300	...	...	2,300	10,500	68,800	79,300	1,300
Bombay Command—									
Bombay Division ...	20,000	8,000	...	...	28,000	3,500	45,000	48,500	14,100
Poona ditto ...	...	3,700	...	...	3,700	5,000	35,000	40,000	7,500
Mhow ditto	1,500	1,300	...	...	2,800	5,000	50,000	55,000	2,200
Bombay *Special Defence* Division.	...	...	...	...	...	...	...	...	...
Bombay Dockyard *Special Defence* Division.	...	...	...	...	...	...	...	...	...
Karachi ditto ...	4,550	1,800	...	600	6,950	9,000	30,000	39,000	2,150
Aden ditto ...	750	1,800	300	...	2,850	6,000	45,000	51,000	1,200
Total ...	26,800	16,600	300	600	44,300	28,500	2,05,000	2,33,500	27,150
Madras Command—									
Madras Division ...	11,000	4,820	...	15,000	30,820	12,000	29,300	41,300	6,100
Bangalore ditto ...	4,390	550	960	8,000	8,900	6,000	31,500	37,500	...
Belgaum ditto ...	3,500	600	...	...	4,100	9,500	24,200	33,700	1,100
Secunderabad ditto ...	700	1,300	...	...	2,000	3,000	44,300	47,300	600
Total ...	19,590	6,770	960	18,000	45,820	30,500	1,29,300	1,59,800	7,800
Reserve with Director-General.	...	...	...	...	...	...	...	...	...
GRAND TOTAL ...	84,890	61,070	8,760	51,400	2,05,620	2,82,500	8,88,100	11,70,600	72,450

Director General,
Military Works.

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II—*contd.*

1893-94 by Commands and Divisions—contd.

Repairs to Commissariat buildings.	Repairs to Staff and Miscellaneous buildings.	Repairs to Bund buildings.	Roads to Hill stations or lines of Military Communication.	General Cantonment Works.				Repairs to Fortifications.	Repairs to Dockyard and Naval buildings.	Petty repairs.	Total repairs, Military.
				Ordinary maintenance charges of Cantonment roads.	Special renewals metalling of Cantonment roads.	Repairs to other Cantonment works.	Total.				
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
28,500	45,900	12,000	67,800	87,500	1,39,100	64,650	2,91,250	39,650	5,000	1,37,000	14,75,000
7,700	6,400	...	60,000	10,500	...	...	10,500	500	...	9,000	1,50,700
2,200	3,200	...	24,000	1,300	...	...	1,300	300	...	2,000	43,000
600	100	...	31,300	...	...	...	...	5,000	...	500	50,300
500	1,000	...	...	...	...	...	...	...	...	1,000	6,000
11,000	10,700	...	1,15,300	11,800	...	...	11,800	5,800	...	12,500	2,50,000
4,600	4,400	...	...	3,800	...	400	4,200	...	...	...	1,03,800
1,800	2,950	...	...	25,000	...	200	25,200	...	...	...	81,150
5,000	5,900	...	...	10,000	3,000	2,000	15,000	5,000	...	...	90,000
...	...	...	...	...	...	...	...	10,050	...	...	10,050
...	...	...	...	...	...	...	...	...	10,000	...	10,000
4,100	2,000	...	1,250	4,600	...	4,000	8,600	15,000	...	...	79,050
3,500	2,650	...	...	7,000	5,750	...	12,750	7,000	...	...	80,950
19,000	17,000	...	1,250	50,400	8,750	6,600	65,750	37,050	10,000	...	4,55,000
8,300	7,600	...	...	9,090	8,800	500	18,390	8,190	...	14,000	1,34,200
3,200	500	5,000	...	...	8,400	2,000	10,400	300	...	6,000	71,800
2,000	3,200	...	...	3,500	9,500	1,300	14,300	600	...	11,000	70,000
2,400	4,000	...	...	8,000	5,000	5,000	18,000	700	...	...	75,000
15,900	15,300	5,000	...	20,590	31,700	8,800	61,090	9,790	...	31,000	3,51,000
...	...	...	...	...	...	...	...	...	...	...	...
74,400	88,900	17,000	1,84,350	1,70,290	1,79,550	80,050	4,29,890	92,290	15,000	1,80,500	25,31,000

Imperial,
Military Works.

Director General,
Military Works.

PART III.

Detail of Budget Estimate for Establishment for 1893-94.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		DIRECTION.					
1	1	Director General—					
		Chief Engineer, 1st Class	2,500	...	...	...	...
		Net Military pay	244	2,744	32,928	...	...
		Superintending Engineers—					
1	1	1st Class, Military Works	1,600	...	...	...	...
1	1	2nd Class, Special Defences	1,350	...	...	...	...
		Net Military pay	487	3,437	41,241	...	...
		Executive Engineers—					
	1	1st grade, Military Works	950	...	...	...	...
1	1	2nd grade, Military Works	800	...	...	...	...
3	3	3rd grade, Special Defences	1,350	...	...	...	...
1	...	4th grade	...	...	...	...	...
		Military pay and allowances... ...	1,435	...	...	...	...
		Total ...		4,535	54,420	1,28,592	1,16,140
		Accounts Establishment.					
1	1	Accountant, 4th grade	127	127	1,524	1,524	1,460
		Office Establishment.					
		Military Works.					
27	24	Clerks	30—350	3,131	...	...	...
12	5	Draftsmen	40—150	417	...	...	...
3	3	Duftries	8—12	29	...	...	...
18	11	Peons and Chowkidars	6—10	78	...	...	...
		Personal allowance to one clerk ...	25	25	...	...	...
		Carried over ...	...	3,080	44,160	1,30,116	1,17,600

Imperial,
Military Works.

Director General,
Military Works.

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PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		Brought forward ...	...	...	44,160	...	...
		Special Defences.					
1	2	Clerks	30—130	227	...	...	...
6	5	Draftsmen	60—150	477	...	...	...
2	2	Peons	6—7	13	...	...	...
		Personal allowance to Draftsmen ...	25	25	...	...	...
				742	8,904	...	...
		Total Office Establishment ...	...	...	...	53,064	44,995
		Temporary Establishment—					
		Military Works		...	10,000	...	...
		Special Defences		...	14,000	...	...
					24,000	24,000	22,620
		Total Salaries		...	...	2,07,180	1,85,215
		Travelling allowance—					
		Military Works		...	10,000	...	...
		Special Defences		...	8,000	...	...
						18,000	17,000
		Contingencies—					
		Military Works		...	6,000	...	...
		Special Defences		...	5,000	...	...
						11,000	11,865
		Total Head Quarters—					
		Military Works		...	...	1,58,426	1,39,080
		Special Defences		...	...	77,754	75,000
						2,36,180	2,14,080
		Carried over		...	...	2,36,180	2,14,080

Imperial,
Military Works.

Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		Brought forward ...	...	...	...	2,36,180	2,14,080
		Chief Engineers—	...	...	...	...	...
1	1	2nd class	1,200	...	...	...	...
1	1	3rd do.	1,000	2,200	26,400	...	...
2	2						
		Assistant to Chief Engineers—					
2	1	Executive Engineer, 2nd grade ...	500	850	10,200	...	...
	1	Ditto 4th do. ...	350				
2	2					...	...
		Military pay and allowances ...	434—1,002	3,080	36,960	...	...
					73,560		
		Superintending Engineers—					
2	2	1st class	800	1,600	...	...	...
2	1	2nd do.	750	750	...	...	...
2	2	3rd do.	700	1,400	...	...	...
6	5			3,750	45,000	...	...
	1	Assistant to Superintending Engineer (Executive Engineer, 4th grade).	350	350	4,200	...	...
		Military pay and allowances		4,675	56,100	...	...
					1,05,300	...	...
					1,78,860	...	2,00,000
		Carried over			1,78,860	2,36,180	2,14,080

Imperial,
Military Works.

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Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total	
			Rs.	Rs.	Rs.	Rs.	Rs.
							2,14,080
		Brought forward	...	...	1,78,860	2,36,180	2,00,000
		Office Establishment.					
46	44	Clerks	20—325	3,560	...	...	...
10	7	Draftsmen	40—100	565	...	...	...
5	5	Duftries	8—12	60	...	...	...
32	26	Peons and Chowkidars	5—21	219	...	...	...
				4,404	52,848	...	49,120
		Petty Establishment.					
4	8	Peons, Tyndals and Khullasie ...	5—15	71	852	...	830
		Local allowance	...	...	2,200	...	2,000
		Temporary Establishment	...	...	17,000	...	18,210
		Total Salaries	...	...	2,51,760	...	2,70,160
		Travelling allowance	...	...	25,000	...	18,000
		Contingencies	...	...	30,000	...	20,000
		Total Chief and Superintending Engineers.	...	...	...	3,06,760	3,08,160
		Total Direction	...	...	...	5,42,940	5,22,240
		Construction.					
		Engineer Establishment.					
16	14	Executive Engineer, I grade ...	600	8,400	...	...	...
15	(*a*) 15	Ditto II do.	500	7,500	...	...	...
16	14	Ditto III do.	450	6,300	...	...	...
7	(*b*) 5	Ditto IV do.	350	1,750	...	...	...
54	48						
		Carried over ...	...	23,950	...	5,42,940	5,22,240

(*a*) Includes 1 officer lent from Bombay.
(*b*) Includes 1 officer lent from Public Works Department.

Imperial,
Military Works.

Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		Brought forward ...	...	23,050	...	5,42,940	5,22,240
		CONSTRUCTION—*contd.*					
		Engineer Establishment—contd.					
42	43	Assistant Engineers, I grade ...	300	12,900	...	...	...
1	1	Special Engineer	600	600	...	...	...
10	11	Assistant Engineer, II do. ...	200	2,200	...	...	...
		Military pay and allowances ...		39,850	4,75,800	...	...
				41,092	4,93,104	...	...
		Presidency allowance	...		9,68,904	...	...
		Ditto house-rent	...	1,000	12,000	...	...
		Local allowance (Baluchistan and Burma.) ...	...	300	3,600	...	...
				1,500	18,000	...	...
		TOTAL ENGINEER ESTABLISHMENT ...	...	...	10,02,504	...	8,17,160
		Upper Subordinates.					
8	(a) 8	Sub-Engineers, I grade	400 to 500	3,450	...	...	...
9	(a) 8	Ditto II do.	300	2,400	...	...	...
16	(a)15	Ditto III do.	250	3,750	...	...	...
15	(a)15	Supervisor I do.	200	3,000	...	...	...
26	(a)26	Ditto II do.	150	3,900	...	...	...
60	60	Overseers I do.	100	6,000	...	...	...
134	132			22,500	...	...	...
		Carried over		22,500	10,02,504	5,42,940	8,17,160 / 5,22,240

(a) Includes 2 Sub-Engineers, 1st, 2 Sub-Engineers, 2nd, 4 Sub-Engineers, 3rd grade, and 1 Supervisor, 1st grade, and 2 Supervisors, 2nd grade, lent from other Provinces.

Imperial,
Military Works.

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Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
							5,22,240
		Brought forward	...	22,500	10,02,504	5,42,940	8,17,160
		Upper Subordinates—contd.					
		Military pay and allowances	...	3,710	...	...	...
				26,210	3,14,520	...	...
		Presidency allowance	...	750	9,000	...	...
		Ditto house-rent	...	180	2,160	...	...
		Sub-divisional allowances	...	3,870	46,440	...	...
		Local allowances, Beluchistan and Burma...	...	263	3,160	...	...
					3,75,280	...	3,69,320
		Temporary grant	...	...	25,000	...	18,360
		TOTAL UPPER SUBORDINATES ...	...	...	4,00,280	...	3,87,680
		Lower Subordinates.					
60	57	Sub-overseer, I grade	50—70	3,420	...	...	...
55	54	Ditto II do.	35—45	2,160	...	...	...
29	30	Ditto III do.	25—35	900	...	...	...
144	141			6,480	77,760	...	...
		Sub-divisional allowance	...	1,200	14,400	...	...
		Local allowances, Beluchistan and Burma...	...	200	2,400	...	...
					94,560	...	89,340
		Temporary Establishment	...	...	35,000	...	16,445
		TOTAL LOWER SUBORDINATES ...	...	...	1,29,560	...	1,05,785
		Carried over	...	...	15,32,344	5,42,940	13,10,625 / 5,22,240

Imperial,
Military Works.

Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		Brought forward ...	...	...	15,32,344	5,42,940	5,22,240
							18,10,625
		Petty Establishment.					
45	46	Storekeepers	20—100	2,114	...	...	...
46	44	Artificers	10—50	1,327	...	...	...
198	172	Tyndals, Khullasies, Peons, and Chowkidars.	4—15	927	...	...	...
				4,368	52,424	...	50,375
		Temporary Establishment	...	...	30,000	...	35,010
		Total Petty Establishment ...	...	...	82,424	...	85,385
		Accountants.					
14	10	Accountant, III grade	160—240	2,170	...	...	...
28	25	Ditto IV do.	80—150	3,151	...	...	...
4	4	Apprentice Accountants	35—50	200	...	...	...
46	39			5,521	66,252	...	...
		Presidency allowance	...	280	3,360	..	...
		Ditto house-rent	...	50	600	...	...
		Local allowance, Beluchistan and Burma ...	...	310	3,720	...	...
		Total Accountants ...	...	...	73,932	...	76,725
		Office Establishment.					
173	176	Clerks	20—120	9,103	...	...	...
33	37	Draftsmen	40—100	2,495	...	...	...
		Carried over ...	...	11,598	16,88,700	5,42,940	14,72,785 / 5,22,240

Imperial,
Military Works.

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Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		Brought forward ...	...	11,598	16,88,700	5,42,940	5,22,240 / 14,72,785
19	16	Cashiers	30—60	790	...	...	...
8	8	Munshies	10—25	144	...	...	...
169	149	Peons and Chowkidars	5—12	955	...	...	...
				13,487	1,61,852	...	...
		Local allowances, Beluchistan and Burma...	...	...	4,000	...	...
					1,65,852	...	1,46,900
		Temporary Establishment	...	...	70,000	...	1,05,300
		Total Office Establishment ...	...	...	2,35,852	...	2,52,200
		Total Salaries ...	...	...	19,24,552	...	17,24,985
					1,61,500	...	1,47,000
		Travelling allowances	...	...	87,804	...	72,570
		Contingencies	...	...		...	
		Total Construction ...	...	...	...	21,73,856	19,44,505
		Accounts.					
1	1	Examiner, III class	700	700	...	...	...
2	1	Do. IV do., III grade ...	700	700	...	...	...
1	1	Deputy Examiner, II grade	450	450	...	...	...
	1	Assistant Examiner, I do. ...	350	350	...	...	...
				2,200	...	...	...
		Military pay and allowances... ...	...	641	...	...	...
				2,841	34,092	...	32,465
3	2	Accountants, I grade	350—450	850	...	...	...
4	4	Do. II do.	250—340	1,264	...	...	...
	3	Do. III do.	160—240	650	...	...	...
8	6	Do. IV do.	80—150	762	...	...	...
15	15						
		Apprentice Accountants	...	...	...	...	...
				3,526	42,312	...	36,720
							69,185
		Carried over	...	...	76,404	27,16,796	24,66,745

Imperial,
Military Works.

Director General,
Military Works.

PART III—*contd.*

Detail of Budget Estimate for Establishment for 1893-94—contd.

Number.		Particulars.	Salary of Office.	Estimate, 1893-94.			Revised Estimate, 1892-93, charge per annum.
1892-93.	1893-94.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		Brought forward ...	...	...	76,404	27,16,726	24,66,745
46	44	Clerks	20—200	2,757	...		69,185 ...
2	2	Duftries	10—12	22	...	...	...
10	10	Peons and Chowkidars	6—7	63	...	...	...
				2,842	...	...	...
		Personal allowance of 3 clerks ...	...	130	...	...	...
				2,972	35,664	...	31,520
		Temporary Establishment	...	...	12,000	...	12,000
		Total Salaries ...	...	...	1,24,068	...	1,12,705
		Travelling allowance	...	...	7,000	...	6,000
		Contingencies	...	...	6,450	...	6,000
		Total Accounts ...	...	...	...	1,37,518	1,24,705
		Reserve for Establishment, Military Works Department.	...	...	...	...	15,294
		Grand Total Establishment ...	...	...	...	28,54,314	26,06,744
		Less Appendix C	...	...	...	...	...
		Direct debits to	...	...	...	...	...
		Special Defence Budget	...	...	...	3,51,650	3,30,000
		Mandalay Budget	...	...	...	...	60,000
		Charges due to absentees	...	...	...	2,73,624	...
		Net gross debits to Military Works Department.	...	...	...	22,29,040	22,16,744

Imperial,
Military Works.

Director General
Military Works.

PART III.—*contd.*

Abstract of the foregoing provisions for Establishment.

Heads.	Salaries.	Travelling allowances.	Contingencies.	Total 1892-93.	Total 1893-94.
	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	3,94,186	35,000	36,000	4,65,186	4,47,240
Construction	13,90,832	1,18,800	79,904	16,26,336	16,29,505
Accounts	1,24,068	7,000	6,450	1,37,518	1,24,705
Reserve	...	...	...	...	15,294
Total ...	19,17,386	1,88,800	1,22,354	22,29,040	22,16,744

		Rs.		
Debits—				
Payment to Special Defences, 1892-93, 16 per cent. on	...	2,27,090	...	36,334
Ditto ditto 1893-94, 16 per cent. on	...	1,38,350*	22,136	
Ditto Local Governments, 1892-93, on minor works outlay—				
50 per cent. on	...	14,000	...	7,000
23 per cent. on	...	46,000	...	10,580
Payment to Civil Works, Baluchistan Agency, 1892-93, 23 per cent. on	...	1,26,920	...	29,191
Payments to Railways—				
North-Western Railway, 1892-93, 23 per cent. on	...	14,000	...	3,220
East Indian Railway, 1892-93, 15½ ditto	...	4,199	...	697
Oudh and Rohilkhund Railway, 1892-93, 23 per cent. on	...	2,882	...	686
Lump sum payment to Special Defences for supervision of Military Works at Jacobabad by Sukkur Special Defence Sub-Division.	...		...	2,400
Payment to Punjab, Public Works Department, 1892-93, 23 per cent. on	...	2,500	...	575
Total debits ...			22,136	90,683
Carried over ...			22,136	90,683
			22,29,040	22,16,744

* To be expended by Attock Defences ... ... Rs. 4,300
" Dockyard Division 1,24,000
" Bombay Special Defence Division 10,050
1,38,350

Imperial,
Military Works.

Director General,
Military Works.

PART III—*concld.*

Abstract of the foregoing provisions for Establishment—concld.

Heads.	Total	
	1893-94.	1892-93.
	Rs.	Rs.
Brought forward ...	22,29,040	22,16,744
	22,136	90,683
Credits—		
Contribution receivable from Special Defences, 1893-94, 16 per cent. on 2,71,500	43,440	...
Ditto ditto ditto 1892-93, 16 per cent. on 4,32,820	...	69,251
Share of Superintendence debitable to Special Defences based on the ratio that the Special Defence grant in each command bears to the total grants for ordinary Military Works and Special Defences in that command—		
1892-93. 1893-94.		
Rs. Rs.		
Presidency and Oudh Command ... 1,279 811		
Meerut Command 95		
Rawalpindi Command 13,091 22,487		
Baluchistan ,, ... 3,613 1,412		
Bombay ,, ... 30,175 22,647		
Madras ,, ... 8,464 13,535		
62,622 60,987	60,987	62,622
Carried over ...	1,04,427 22,136 22,29,040	1,31,873 90,683 22,16,744

Imperial,
Military Works.

Director General,
Military Works.

PART III—*concld.*

Abstract of the foregoing provisions for Establishment—concld.

Heads.	Total	
	1893-94.	1892-93.
	Rs.	Rs.
Brought forward ... Gross charges	22,29,040	22,16,744
Brought forward ... Percentage debits	22,136	90,683
Brought forward ... Percentage credits	1,04,427	1,31,873
Share of audit and accounts debitable to Special Defences	22,000	22,000
Contribution for Establishment receivable from Civil Works of Military Works Department—		
Rs.		
1892-93, 28 per cent. on 1,70,220	...	39,120
1893-94, 23 ditto 1,20,500	27,700	...
Gas Operations, Rawalpindi and Allahabad—		
Cost of one Engineer and one Gas Manager (650 + 250) × 12... 10,800		
Estimated Travelling Allowances 200	11,000	11,000
Share payable by Upper Burma during 1892-93—		
Direction, 3 per cent. on 2,64,680	...	7,940
Accounts, 2 ditto 2,64,680	...	5,294
Debitable to Bombay Public Works Department, on account of Provincial Works carried out by Aden Division, Military Works.	24,049	23,000
Total credits ...	1,89,176	2,10,227
Net credits	1,67,040	1,49,544
Net debit to ordinary Military Works Establishment, India and Lower Burma ...	20,62,000	20,67,200

Imperial, Military Works.

(a)

PART VI.

Abstract of the probable increase or decrease in the respective balances of the Military Works Department during 1892-93 and Budget Estimate for 1893-94 to be provided for in the Ordinary Military Works Revised and Budget Estimates for those years.

	Stock Purchase.	Stock Sales.	Stock.	Movable Stores Advances.	London Invoices.	London Stores.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(1) Actual balance on 1st April 1892 ...	−13,190	4,931	7,74,480	36,161	−54	3,893	8,06,203
(2) *Add*—Probable charges during 1892-93 ...	+1,07,292	20,201	12,57,063	2,86,573	6,39,900	6,89,293	29,50,325
(3) Total ...	93,102	24,932	20,31,356	3,22,734	6,39,846	6,93,186	37,56,524
(4) *Deduct*—Probable issues, including sales and cash credits during 1892-93 ...	1,00,541	23,522	11,67,928	3,01,111	6,89,296	6,41,369	28,73,788
(5) Probable balance on 1st April 1893 ...	−5,442	700	8,63,430	21,623	550	1,775	8,82,836
(6) *Add*—Probable charges during 1893-94 ...	90,300	26,970	11,14,930	2,04,500	1,48,100	1,48,100	17,92,900
(7) Total ...	84,858	27,670	19,78,360	2,26,123	1,48,650	1,49,875	26,75,736
(8) *Deduct*—Probable issues, including sales and cash credits during 1893-94 ...	89,324	26,970	11,48,790	2,04,601	1,48,100	1,48,125	18,26,000
(9) Probable balance on 1st April 1894 ...	−4,466	700	8,29,770	21,432	550	1,750	8,49,736
(10) Probable balance on 1st April 1893 (line 5 above)	−5,442	700	8,63,430	21,623	550	1,775	8,82,836
(11) Difference to be provided for in the Budget Estimate for 1893-94. Increase ...	973	...	...	...	...	...	Net decrease 33,100
Decrease ...	...	...	33,860	191	...	25	

Protection, 1892-93, England ... Rs. + 84,000
" " India ... − 7,710
Total ... + 76,290
Protection, 1893-94, England (including estimates) ... 1,09,390
" India ... 1,00,000
Total ... 9,390
Net decrease ... 33,100

Imperial, Military Works.

Director General, Military Works.

APPENDIX B.—BUDGET ESTIMATE—MILITARY WORKS DEPARTMENT, 1893-94.

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable, 1892-93.	Remarks and references.
					Rs.	Rs.	Rs.	
				ACCOMMODATION FOR TROOPS.				
				Bengal Command.				
Accommodation for troops ...	Jhansi ...	Jhansi ...	1	Additional accommodation for British Infantry in the Fort.	3,600	2,050	23,000	
	Fort William ...	Lebong ...	2	Accommodation for a detached wing of British Infantry.	...	...	...	
	Allahabad ...	Dinapore ...	3	New barracks for British Infantry ...	...	...	...	
	Peshawar ...	Peshawar ...	4	Completing Hospital requirements ...	...	...	...	
	Peshawar ...	Peshawar ...	5	Armouries for Native Troops	32,436	6,100	...	Estimate sanctioned in Director General's No. 4162-B., dated 27th November 1890.
	Murree ...	Baragully ...	6	Completing accommodation for Mountain Battery.	40,000	...	...	
	Lucknow ...	Fyzabad ...	7	Native Cavalry Hospital	16,000	...	...	
	Bareilly ...	Chowbuttia ...	8	Completing Station Hospital	65,009	...	...	General approximate estimate sanctioned in Military Department No. 1715-M.W., dated 17th June 1892.
	Bareilly ...	Chowbuttia ...	9	Orderly-room	4,800	...	...	
	Bareilly ...	Chowbuttia ...	10	Quarter Master's stores	3,700	...	...	

APPENDIX B.—BUDGET ESTIMATE—MILITARY WORKS DEPARTMENT, 1893-94—*contd.*

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Remarks and references.
						Actual to end of 1891-92.	Probable, 1892-93.	
					Rs.	Rs.	Rs.	
Accommodation or troops—*contd.*	Lucknow ...	Lucknow ...	11	Completing Station Hospital	1,00,100	...	...	Project approved in Military Department No. 2361-M.W., dated 8th September 1891.
	Amballa ...	Dagshai ...	12	Improvements to Station Hospital ...	50,000	...	...	
	Peshawar ...	Peshawar ...	13	Contagious Disease Ward for Native Troops...	9,300	...	...	
	Rawalpindi ...	Rawalpindi ...	14	Contagious Disease Ward for Native Troops...	3,412	...	...	
	Bareilly ...	Almorah ...	15	Hospital for Native Infantry	7,500	...	...	
	Amballa ...	Solon ...	16	Station Hospital	50,000	...	...	
	Murree ...	Kuldunnah ...	17	Subsidiary Barrack Buildings	31,809	...	...	
	Jubbulpore ...	Saugor ...	18	Additional barrack accommodation ...	75,000	...	...	
	Lucknow ...	Fyzabad ...	19	Filter beds for British Infantry ...	3,000	...	...	
	Peshawar ...	Nowshera ...	21	Magazine for British Infantry	12,000	...	...	
	Allahabad ...	Allahabad ...	22	Quarters for Royal Artillery Officers ...	12,575	...	...	
	Amballa ...	Jutogh ...	23	Additional Officer's quarters	9,000	...	...	
	Lahore ...	Amritsar ...	24	Additions to Station Hospital	5,168	...	...	
	Jubbulpore ...	Nowgong ...	25	Extension of Native Infantry Hospital ...	3,500	...	...	
	Amballa ...	Amballa ...	26	Enlarging Native Cavalry Hospital ...	10,000	...	...	
	Jubbulpore ...	Pachmarhi ...	27	Armoury and store-rooms, Musketry School...	3,000	...	...	
	Fort William ...	Darjeeling ...	28	Officer's mess	6,000	...	...	
	Barrackpore ...	Dum Dum ...	29	Sergeant-Major's quarters	4,000	...	...	
	Amballa ...	Kasaulie ...	30	Ditto	4,000	...	...	
	Amballa ...	Solon ...	31	Verandahs to huts	12,000	...	...	
	Bareilly ...	Chowbuttia ...	32	Ditto	15,540	...	...	
	Barrackpore ...	Saugor ...	33	Stables for Royal Artillery	23,579	...	...	Estimate sanctioned in Director General's No. 1326-B., dated 18th May 1888.

APPENDIX B.—BUDGET ESTIMATE—MILITARY WORKS DEPARTMENT, 1893-94—*contd.*

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay.		Remarks and references.
						Actual to end of 1891-92.	Probable, 1892-93.	
					Rs.	Rs.	Rs.	
Accommodation for troops—*contd.*	Multan ...	Multan ...	34	Stables for Royal Artillery	25,000	...	...	
	Ferozepore ...	Ferozepore ...	35	Stables for Reserve Ammunition column ...	4,875	...	...	
	Lucknow ...	Lucknow ...	36	Additions to Royal Artillery stables ...	7,320	...	...	
	Quetta ...	Quetta ...	37	Veterinary Hospital for Native Cavalry ...	7,834	...	...	
	Jubbulpore ...	Jubbulpore ...	38	Gun-sheds for Royal Artillery	11,942	...	...	Estimate sanctioned in Director General's No. 4041-B., dated 18th November 1890.
	Ferozepore ...	Ferozepore ...	39	Sheds for Wagons Reserve Ammunition column	4,562	...	...	
	Jubbulpore ...	Pachmarhi ...	40	Armourer's shop, Musketry School ...	9,550	...	...	
	Peshawar ...	Nowshera ...	41	Armourer's shop, Native Infantry ...	3,500	...	...	
	Peshawar ...	Nowshera ...	42	Ditto Native Cavalry ...	5,000	...	...	
	Chakrata ...	Roorkee ...	43	Royal Artillery store shed	5,000	...	...	
				Bombay Command.				
	Aden ...	Aden ...	44	New Station Hospital	2,68,153	...	...	Project awaited.
	Bombay ...	Colaba ...	45	Officers' quarters	2,50,000	...	...	Project awaited.
	Bombay ...	Colaba ...	46	Small Arms Ammunition Magazine ...	8,000	...	...	
	Bombay ...	Colaba ...	47	Store-room for Royal Artillery	4,500	...	...	
	Bombay ...	Colaba ...	48	Workshop for Royal Artillery	3,760	...	...	
	Bombay	Deolali ...	49	Ante-room to Officers' mess	3,600	...	...	
	Bombay ...	Bombay ...	50	Concrete floors to certain bungalows in Marine Lines.	9,500	...	...	
	Mhow ...	Kampti ...	51	Quarters for Hospital followers	4,144	...	3,000	
				Madras Command.				
	Bangalore ...	Bangalore ...	52	Extending single men's barracks, British Cavalry Lines.	77,708	...	...	Estimate sanctioned in Military Department No. 3158-M.W., dated 28th October 1892.
	Bangalore ...	Bangalore ...	53	Additional accommodation for single men of British Infantry.	42,000	...	...	
	Bangalore ...	Bangalore ...	54	Additional accommodation for South Station Hospital.	21,212	...	...	

APPENDIX E.—BUDGET ESTIMATE—MILITARY WORKS DEPARTMENT, 1893-94—*contd.*

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable 1892-93.	Remarks and references.
					Rs.	Rs.	Rs.	
Accommodation for troops—*concld.*	Bangalore ...	Bangalore ...	55	Additional accommodation for North Station Hospital.	67,500	...	...	
	Belgaum ...	Bellary ...	56	Contagious Disease Ward at Station Hospital...	6,800	...	...	
	Belgaum ...	Belgaum ...	57	Providing an Officer's ward	3,100	...	...	
	Secunderabad ...	Secunderabad ...	58	Ditto	2,800	...	...	
	Belgaum ...	Belgaum ...	59	Contagious Disease Ward at Station Hospital...	6,000	...	...	
	Secunderabad ...	Secunderabad ...	60	Completing requirements of Madras Infantry Hospital, Tarbund.	3,700	...	...	
	Secunderabad ...	Secunderabad ...	61	Ditto at Chilkugoodum ...	3,300	...	...	
	Secunderabad ...	Secunderabad ...	62	Ditto at Marreepully ...	3,300	...	...	
				STAFF AND MISCELLANEOUS.				
	Aden ...	Aden ...	64	Office for Executive Engineer, Military Works	23,600	...	...	
	Aden ...	Aden ...	65	Godown for Executive Engineer, Military Works.	9,200	...	...	
	Fort William ...	Alipore ...	66	Additional godown accommodation, Army Clothing Agency.	45,000	...	...	
	Fort William ...	Alipore ...	67	Raising the boundary wall, Army Clothing Agency.	7,000	...	...	
	Lucknow ...	Cawnpore ...	68	Quarters for the European Boot Examiner, Army Clothing Agency.	5,300	...	...	
	Fort William ...	Alipore ...	69	Quarters for the Superintendent, Army Clothing.	43,000	...	...	
				GENERAL CANTONMENT WORKS.				
General Cantonment Works ...	Allahabad ...	Allahabad ...	70	Water-supply to Fort	50,000	...	...	Approximate project sanctioned in Military Department No. 312 M.W., dated 4th February 1890.
	Lucknow ...	Lucknow ...	71	Cantonment water-supply	1,03,255	...	1,000	Approximate estimate approved in Military Department No. 10140, dated 4th January 1893.
	Chakrata ...	Chakrata ...	72	Extension of water-supply to Kailana ...	65,000	...	...	Estimate awaited.
Ordnance Works ...	Amballa ...	Solon ...	73	Cantonment water-supply	14,000	...	...	Estimate awaited.
				ORDNANCE WORKS.				
				Eastern Circle.				
	Barrackpore ...	Cossipore ...	74	Rebuilding South range godowns and demolishing West range.	37,308	...	...	

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APPENDIX B.—BUDGET ESTIMATE—MILITARY WORKS DEPARTMENT, 1893-94—*concld.*

Head of classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1891-92.	Outlay. Probable, 1892-93.	Remarks and references.
					Rs.	Rs.	Rs.	
Ordnance Works—*contd.* ...	Lucknow ...	Cawnpore ...	75	Alterations to Blacksmith's shop ...	32,000	...	...	
	Barrackpore ...	Ishapore ...	76	Jetty for landing stores	6,600	...	...	
				Western Circle.				
	Ferozepore ...	Ferozepore ...	77	Fitting gun sheds with doors	22,360	...	...	
	Quetta ...	Quetta ...	78	Quarters for Ordnance clerks	7,632	...	...	
	Ferozepore ...	Ferozepore ...	79	Sheds on glacis of fort for laboratory operations.	3,113	...	...	
				Bombay Circle.				
	Poona ...	Kirkee ...	80	Buildings for manufacture of ·303 rifle ammunition.	84,090	...	...	
	Bombay ...	Bombay ...	81	Alterations to married non-commissioned officers' quarters town barracks.	33,597	...	...	
				Bazar Lines in Arsenal	82,033	...	...	
				Madras Circle.				
	Belgaum ...	Bellary ...	83	New workshops	48,945	...	...	
	Belgaum ...	Bellary ...	84	Eight quarters for warrant officers ...	31,915	...	...	
	Belgaum ...	Bellary ...	85	New offices	12,000	...	...	
				Commissariat Works.				
				Eastern Circle.				
Commissariat Works ...	Lucknow ...	Fyzabad ...	86	New bakery	15,000	...	...	
	Bareilly ...	Shahjehanpore ...	87	Slaughter-house with meat-hanging shed ...	10,000	...	...	
	Meerut ...	Meerut ...	88	Hospital Storekeeper's store-room ...	4,500	...	...	
				Western Circle.				
	Murree ...	Campbellpore ...	89	New bakery	5,110	...	...	
	Quetta ...	Quetta ...	90	Rebuilding Rum godown	12,250	...	...	
	Rawalpindi ...	Rawalpindi ...	91	New flour store-room with a verandah ...	4,410	...	...	
				Note.—No lists received from Commissaries-General-in-Chief of the Madras and Bombay Circles requirements.				
				Fortifications.				
Fortifications ...	Rawalpindi ...	Chaknizam ...	92	Defence of Railway bridge over the Jhelum...	14,000	...	...	
	Rawalpindi ...	Wazirabad ...	93	Defence of Railway bridge over the Chenab ...	...	...	...	
	Lahore ...	Lahore ...	94	Defence of Railway bridge over the Ravee ...	...	...	...	
	Lucknow ...	Cawnpore ...	95	Defence of Harness and Saddle Factory ...	17,331	...	...	Sanctioned in Military Department No. 1316-M. W., dated 3rd June 1890.
	Ferozepore ...	Ferozepore ...	96	Protection of magazine in Arsenal ...	...	...	...	Sanctioned in Director General's No. 1574-C., dated 12th June 1890.
	Allahabad ...	Allahabad ...	97	Branch railway to, and tramway within, the Arsenal.	...	...	...	

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APPENDIX

Distribution of the provision

Commands and Divisions.	Chief Engineers.		Superintending Engineers.		Executive Engineers.		Assistant Engineers.		Upper Subordinates.		Lower Subordinates.		Petty Establishment.
	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	Cost.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.
Director General ...	1	32,328	1	22,122	3	33,216	...	...	...	...	...	...	...
Reserve	...	...	...	...	...	...	...	...	...	...	...	...	...
PRESIDENCY AND OUDH COMMAND.													
Superintending Engineer ...	...	...	1	18,252	1	9,408	...	...	...	...	...	...	120
Fort William	...	...	...	...	1	10,608	1	6,792	4	15,600	8	4,080	2,202
Barrackpore	...	...	...	...	1	9,408	1	6,792	3	5,640	8	4,080	970
Allahabad	...	...	...	...	1	18,800	1	6,792	5	13,920	8	3,480	1,540
Lucknow	...	...	...	...	1	16,556	2	13,584	10	24,420	12	6,720	2,010
Jubbulpore	...	...	...	...	1	12,996	1	6,792	3	6,480	3	1,440	522
TOTAL ...	...	...	1	18,252	6	77,936	6	40,752	25	66,060	39	19,200	8,364
MEERUT COMMAND.													
Superintending Engineer ...	...	...	1	18,396	...	...	...	...	...	...	...	...	...
Meerut	...	...	...	...	1	11,778	1	6,792	3	5,640	7	4,440	2,250
Agra	...	...	...	...	1	9,408	1	5,592	1	6,000	2	1,200	1,100
Bareilly	...	...	...	...	1	12,996	1	6,792	3	6,840	11	5,880	4,238
Jhansi	...	...	...	...	1	12,396	1	6,792	3	6,240	7	3,840	1,652
Chakrata	...	...	...	...	1	10,608	1	6,792	5	10,800	7	4,560	1,822
TOTAL ...	...	...	1	18,396	5	57,786	5	31,560	15	35,520	34	19,920	11,122
SIRHIND AND LAHORE COMMAND.													
Superintending Engineer ...	...	...	1	21,624	...	...	...	...	...	...	...	...	60
Umballa	...	...	...	...	1	12,996	2	13,584	8	16,080	10	6,480	5,917
Lahore	...	...	...	...	1	10,608	1	5,592	3	7,080	5	2,280	3,470
Ferozepore	...	...	...	...	1	9,408	1	5,592	1	1,920	2	1,080	1,262
Mooltan	...	...	...	...	1	7,392	1	5,592	1	1,920	4	2,280	1,835
Jullundur	...	...	...	...	1	7,392	1	5,592	1	1,920	4	2,280	1,450
TOTAL ...	...	...	1	21,624	5	47,796	6	35,952	14	28,920	25	14,400	13,994
RAWALPINDI COMMAND.													
Superintending Engineer ...	...	...	1	21,624	...	...	...	...	...	...	...	...	...
Rawalpindi	...	...	...	...	1	10,596	2	12,792	6	17,940	8	4,920	1,986
Murree	...	...	...	...	1	12,996	1	5,592	3	6,240	4	1,800	1,462
Peshawar	...	...	...	...	1	10,800	1	5,592	5	18,360	6	3,120	3,526
Attock (Special Defences) ...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	1	21,624	3	34,392	4	23,976	14	42,540	18	9,840	6,974
Carried over ...	1	32,928	5	1,03,018	22	2,51,996	21	1,32,240	68	1,73,040	116	63,360	40,458

C.

for Establishment, 1893-94.

Accountants.		Office Establishment.	Temporary Establishment.	Presidency and local allowances and house rent.	Total salaries.	Travelling allowances.	Contingencies.	Total.	Establishment of the Barrack Department.	Grand total Establishment.	Grants for the year, excluding Establishment.		
No.	Cost.	Cost.									Original works and repairs.	Supply and repairs of barrack furniture.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...	...	44,160	10,000	...	1,42,426	10,000	6,000	1,58,426	...	1,58,426	...	...	...
...	...	...	...	...	...	...	...	...	...	...	5,78,800	46,250	6,28,050
...	...	7,180	1,200	...	36,160	3,000	4,000	43,160	...	43,160	...	6,300	6,300
...	...	9,270	2,400	7,160	60,802	7,000	3,500	71,302	7,376	78,678	2,66,360	9,300	2,75,660
1	2,500	5,575	600	2,500	38,065	5,000	2,500	45,565	4,733	50,298	3,62,850	18,700	3,81,550
1	2,500	6,100	2,500	2,500	58,822	6,000	2,500	67,322	7,252	74,574	64,830	18,200	83,030
2	3,100	7,200	2,000	3,500	77,830	8,000	3,500	89,330	7,937	97,267	2,62,050	35,000	2,97,050
1	1,500	4,685	650	1,500	36,565	3,000	2,400	41,965	5,146	47,111	43,510	16,800	60,310
1	1,500	40,010	9,450	17,160	3,18,244	32,000	18,400	3,68,644	32,444	3,91,088	9,39,600	99,300	10,38,900
6	11,100	...	...	...	...	...	...	...	...	...	...	...	...
...	...	5,004	1,200	...	24,860	2,500	4,000	31,160	...	31,160	...	10,400	10,400
1	1,500	4,200	700	1,000	30,700	1,500	1,500	33,700	3,518	37,218	2,38,000	...	...
1	1,500	7,817	1,000	3,500	49,163	7,000	3,500	59,663	8,788	68,451	2,49,200	16,200	2,65,400
1	1,500	5,506	1,000	2,000	41,526	3,000	2,100	46,626	3,940	50,566	1,67,000	10,200	1,77,200
1	1,500	7,156	1,000	2,500	46,738	4,500	2,000	53,238	6,241	59,479	1,53,000	6,400	1,59,400
5	7,500	36,733	6,100	11,500	2,36,137	21,500	16,100	2,73,737	30,361	3,04,098	9,74,400	65,500	10,39,900
...	...	5,332	1,400	...	28,416	4,000	5,000	37,416	...	37,416	...	16,200	16,200
2	2,100	7,753	1,200	3,500	69,610	9,000	4,500	83,110	13,086	96,196	1,78,700	33,500	2,12,200
1	1,500	6,866	1,200	2,500	40,596	7,000	3,200	50,796	8,606	59,402	82,600	18,500	1,01,100
1	1,500	3,277	600	1,000	25,629	1,500	1,500	28,629	4,010	32,639	40,550	7,600	48,150
1	1,500	4,117	700	1,000	26,236	1,800	1,500	29,536	2,350	31,986	28,500	2,100	30,600
1	1,500	5,050	300	1,000	26,484	3,500	1,500	31,484	4,850	36,334	28,350	4,100	32,450
6	8,100	31,895	5,400	9,000	2,17,071	26,800	17,200	2,61,071	32,902	3,93,973	3,58,700	82,000	4,40,700
...	...	6,972	1,000	...	29,536	2,500	3,000	35,036	...	35,036	...	3,300	3,300
1	2,500	6,236	1,000	3,000	60,970	7,000	4,000	71,970	8,538	80,508	2,42,120	38,200	2,80,320
1	1,500	3,418	1,200	1,500	35,708	6,500	3,000	45,208	5,306	50,514	2,31,980	25,200	2,57,180
1	1,500	6,792	1,000	2,500	53,184	8,000	5,000	66,184	8,138	74,322	1,58,000	15,300	1,73,300
...	...	...	...	...	...	...	...	...	...	...	4,300	...	4,300
3	5,500	23,418	4,200	7,000	1,79,458	24,000	15,000	2,18,458	21,982	2,40,440	6,36,400	82,000	7,18,400
20	32,200	1,76,216	35,150	44,660	10,83,836	1,14,300	72,700	12,70,336	1,17,689	13,88,025	34,87,900	3,78,050	38,65,950

Imperial,
Military Works.

APPENDIX

Distribution of the provision

Commands and Divisions.	Chief Engineers.		Superintending Engineers.		Executive Engineers.		Assistant Engineers.		Upper Subordinates.		Lower Subordinates.		Petty Establishment.
	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	Cost.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.
Brought forward ...	1	32,928	5	1,02,018	22	2,51,096	21	1,32,240	68	1,73,040	116	63,360	40,428
Beluchistan Command.													
Superintending Engineer ...													
Quetta	...	...	1	15,996	...	...	...	...	...	...	...	...	612
Peshin	...	...	...	...	1	14,882	3	20,376	7	12,840	5	2,040	4,511
Loralai (Civil)	...	...	...	...	1	10,608	...	...	2	4,260	4	2,640	2,045
Zhob (Civil)	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	1	15,996	2	25,490	3	20,376	9	17,100	9	4,680	7,168
Bombay Command.													
Chief Engineer	1	26,424	...	...	1	13,692	...	...	...	...	...	...	...
Bombay	...	...	...	...	1	14,882	1	5,592	2	8,200	...	...	653
Mhow	...	...	...	...	1	12,396	1	6,792	3	5,040	6	3,600	726
Poona	...	...	...	...	1	14,882	1	6,792	4	8,940	1	360	108
Kamchi	...	...	...	...	1	10,608	1	6,792	5	13,200	1	720	300
Aden	...	...	...	...	1	14,196	2	13,584	5	9,900	2	1,440	1,200
Bombay Dockyard ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bombay Special Defences ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sukkur Sub-Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1	26,424	...	...	6	81,276	6	39,552	19	41,040	11	6,000	3,078
Madras Command.													
Chief Engineer ...													
Madras	1	24,024	...	...	1	9,420	...	...	...	...	...	...	...
Bangalore	...	...	...	...	1	11,882	2	13,584	4	6,960	...	...	800
Secunderabad	...	...	...	...	1	14,882	1	5,592	2	4,020	...	...	600
Belgaum	...	...	...	...	1	9,408	1	6,792	3	9,000	1	720	482
	...	...	...	...	1	12,996	1	6,792	3	9,600	1	720	100
Total ...	1	24,024	...	...	5	58,592	5	32,760	12	30,480	2	1,440	1,982
Examiners' Office ...	...	...	1	16,002	1	8,400	2	9,000	...	...	...	...	...
Total ...	...	...	1	16,002	1	8,400	2	9,000	...	...	...	...	...
Ordinary Military Works, Carried over ...	3	83,376	7	1,34,106	36	4,24,360	37	2,34,528	108	2,61,660	138	76,080	52,656

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Director General,
Military Works.

C—*contd.*

for Establishment, 1893-94—contd.

Accountants.		Office Establishment.	Temporary Establishment.	Presidency and local allowances and house-rent.	Total salaries.	Travelling allowances.	Contingencies.	Total.	Establishment of the Barrack Department.	Grand total Establishment.	Grants for the year excluding establishment.		
No.	Cost.	Cost.									Original works and repairs.	Supply and repairs of barrack furniture.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
20	32,200	1,76,216	35,150	44,680	10,83,336	1,14,300	72,700	12,70,336	1,17,689	13,88,025	34,87,900	3,78,050	38,65,950
...	...	8,080	2,500	2,200	29,388	3,000	4,000	36,388	...	36,388	...	2,100	2,100
2	4,164	9,500	18,000	20,000	1,06,313	10,000	4,000	1,20,313	2,557	1,29,870	4,77,700	8,700	4,86,400
1	1,500	6,070	9,000	10,000	46,123	8,500	3,500	58,123	...	58,123	66,400	500	66,900
...	...	...	...	...	...	...	...	...	...	...	69,000	500	69,500
...	...	...	...	...	...	...	...	...	...	...	6,000	500	6,500
3	5,664	23,650	29,500	32,200	1,81,824	21,500	11,500	2,14,824	2,557	2,24,381	6,19,100	12,300	6,31,400
...	...	9,820	6,300	...	56,236	5,000	6,000	67,236	...	67,236	...	500	500
1	1,500	4,876	7,000	5,000	43,370	3,000	2,000	48,370	18,465	66,835	2,64,800	11,400	2,76,200
1	1,500	5,615	5,000	1,250	42,513	6,000	2,500	51,013	14,093	65,106	90,000	41,950	1,31,950
1	1,500	2,384	8,000	1,250	44,226	4,000	1,200	49,426	13,078	62,504	1,85,250	48,500	2,33,750
1	2,500	2,850	6,000	1,000	44,170	5,100	2,000	51,270	8,244	59,514	81,650	13,800	95,450
1	2,500	4,800	18,150	8,000	73,770	10,000	6,000	89,770	5,720	95,490	83,950	9,200	93,150
...	...	...	...	...	...	...	...	...	...	...	1,24,000	...	1,24,000
...	...	...	5,000	360	5,840	600	600	7,040	...	7,040	10,050	...	10,050
5	9,500	36,345	56,450	16,860	3,10,125	33,700	20,300	3,64,125	59,600	4,23,725	8,39,700	1,25,350	9,65,050
...	...	10,460	3,400	...	47,304	4,520	3,760	55,564	...	55,564	...	...	...
2	3,100	5,648	5,000	6,000	52,974	3,500	1,800	58,274	...	58,274	2,05,000	...	2,05,000
1	2,500	4,269	3,000	1,000	36,673	1,000	1,970	39,643	...	39,643	1,74,800	...	1,74,800
1	2,500	6,165	2,600	1,600	39,267	2,000	1,920	43,187	...	43,187	1,80,300	...	1,80,300
1	1,500	2,167	7,500	1,000	42,315	1,300	1,954	45,569	1,154	46,723	97,200	4,500	1,01,700
5	9,600	28,649	21,500	9,600	2,18,533	12,300	11,404	2,42,237	1,154	2,43,391	7,17,300	4,500	7,21,800
15	42,312	35,664	12,000	...	1,24,068	7,000	6,450	1,37,518	...	1,37,518	...	...	...
15	42,312	35,664	12,000	...	1,24,068	7,000	6,450	1,37,518	...	1,37,518	...	...	...
48	99,276	2,94,524	1,53,600	1,03,320	19,17,886	1,88,800	1,22,364	22,29,040	1,88,000	24,17,040	56,64,000	5,20,200	61,84,200

Imperial, Military Works.

APPENDI

Distribution of the provisio

Commands and Divisions.	Chief Engineers.		Superintending Engineers.		Executive Engineers.		Assistant Engineers.		Upper Subordinates.		Lower Subordinates.		Petty Establishment.
	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	No.	Cost.	Cost.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.
Ordinary Military Works, brought forward ...	3	83,376	7	1,34,106	36	4,24,860	37	2,34,528	108	2,61,660	138	76,080	52,55
SPECIAL DEFENCES.													
Director General's Office ...	...	...	1	19,122	2	21,204	...	...	...	...	...	...	...
Rawalpindi Division ...	...	...	...	...	3	29,784	1	6,792	4	9,000	...	...	...
Attock Division ...	...	...	...	...	2	23,284	2	12,384	1	1,920	...	...	72
Bombay Division ...	...	...	...	...	1	12,996	1	6,792	6	22,260	1	480	...
Dockyard Division ...	...	...	...	...	1	11,208	1	6,792	2	4,500	1	480	...
Rangoon Division ...	...	...	...	...	1	7,392	2	12,384	3	6,000	1	720	...
TOTAL SPECIAL DEFENCES ...	...	...	1	19,122	9	1,04,868	7	45,144	16	43,680	3	1,680	72
Add absentees (Furlough, Field Service, &c.) ...	...	...	...	...	12	1,76,148	13	98,256	8	9,180	...	...	...
GRAND TOTAL ...	3	83,376	8	1,53,228	57	7,05,876	57	3,67,928	132	3,14,520	141	77,760	53,27

Director General, Military Works.

C.—*concld.*

for Establishment, 1893-94—concld.

Accountants.		Office Establishment.	Temporary Establishment.	Presidency and local allowances and house-rent.	Total salaries.	Travelling allowances.	Contingencies.	Total.	Establishment of the Barrack Department.	Grand Total Establishment.	Grants for the year excluding Establishment.		
No.	Cost.	Cost.									Original works and repairs.	Supply and repairs of barrack furniture.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
48	99,276	2,94,524	1,53,600	1,03,320	19,17,886	1,88,800	1,22,354	22,29,040	1,88,000	24,17,040	56,64,000	5,20,200	61,84,200
1	1,524	8,904	14,000	...	64,754	8,000	5,000	77,754	...	77,754	...	...	...
1	2,562	...	17,000	360	65,528	6,000	3,500	75,028	...	75,028	...	...	...
1	1,524	...	8,400	360	47,592	2,500	1,000	51,092	...	51,092	...	...	...
*2	2,124	...	9,000	10,000	63,652	3,000	2,000	68,652	...	68,652	...	...	...
1	1,524	...	5,000	5,600	35,104	1,200	800	37,104	...	37,104	...	...	...
1	1,524	...	6,000	5,400	39,420	2,000	600	42,020	...	42,020	...	...	...
7	10,812	8,904	59,400	21,720	3,16,050	22,700	12,900	3,51,650	...	3,51,650	...	...	...
3	...	...	...	...	2,73,624	...	...	2,73,624	...	2,73,624	...	...	...
55	1,10,088	3,03,428	2,13,000	1,25,040	25,07,560	2,11,500	1,35,254	28,54,314	1,88,000	30,42,314	56,64,000	5,20,200	61,84,200

* 1 Apprentice Accountant.

All communications to be addressed to the Director General of Military Works in India.

No. 1382 B 91

Military Works Department,

Simla, 22nd May 1893

From

The Director General of Military Works in India,

To

The Secretary to the Government of Madras
Public Works Department

Sir,

I have the honor to forward for information & a copy of the final issue of the Military Works Budget for the year 189 Department with one spare copy

I have the honor to be,
Sir,
Your most obed't. servant,

R. Arnott Lieut-Colonel
For Director General Mily Works

Director General,
Military Works.

MILITARY WORKS DEPARTMENT.

Statement showing the final and approximate percentage which the charges for Establishment bear to the outlay on Works and Repairs, for the years 1892-93 to 1893-94.

Service.	Class.	1892-93.						1893-94.					
		New works.	Repairs.	Total outlay.	Establishment.	Percentage on outlay.	New works.	Repairs.	Total outlay.	Establishment.	Percentage on outlay.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Imperial	Military Works	(a) 15,65,800	13,15,280	(a) 28,81,100	5,58,780	30,67,200	85·28	30,00,100	25,31,000	(d) 55,37,100	20,62,000	37·23
				(c)*		*						
		1,78,500	75,000	2,53,500	55,080	58,060	21·90	...	...	...	...	...
		34,56,300	26,58,100	61,14,400	21,43,260	21,43,260	34·72					

(a) Excludes Rs. 1,10,200 for expenditure on Railways.
(b) Excludes Rs. 6,57,200 for Railways.
(c) Excludes Rs. 2,700 for Railways.
(d) Excludes Rs. 1,50,000 for Railways.
* Upper Burma only.

Imperial,
Military Works.

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B.N. 1500 a & b. 6.93

Rs E.I
1534/93