No. 80 W dated 10th January

B/

Communicated
to the S. E. V circle
& the Exr. of P.W. Reeds

2. The distribution of
the allotment will be as
shown below:—

Works — Rs6017
Establishment - " 1393
Tools & Plant " 90
Total Rs7500

WWW
9.1.88

JW
9/1/88.

3252/253 W 7/1/88

The S. E. V circle
" Exr. P.W. Reeds
" Military Dept
10-1-88

No. 80 W dated 10th January 1888

With order

M. D. 18.

HEADING.

Accounts.

It is requested that the above heading, with number and date of this communication, may be quoted in any subsequent correspondence on the subject.

No. 2528 M. W.

GOVERNMENT OF INDIA,

MILITARY DEPARTMENT.

Fort William, the 19th December 1887.

To

THE SECRETARY TO THE GOVERNMENT OF MADRAS,
PUBLIC WORKS DEPARTMENT.

SIR,

Output for Cir 10-341 with D-

In reply to your letter No. 3353, dated 7th December, 1887, I am directed to convey the sanction of the Government of India to an additional grant of Rs. 7,500, for the conversion of certain buildings in Fort St. George, into barracks for 60 single men. This allotment includes provision for Establishment and Tools and Plant.

I am,

Sir,

Your most obedient servant,

J. L. Mowbray Major,

for Secretary to the Govt. of India.

Copy to:-

The Accountant-General, Public Works Department.

JAA

The Honble Member [illegible]

be met from the ordinary grants for the year.

2. Estimates aggregating Rs. 25,097 were sanctioned for the conversion of certain buildings in the Fort Saint George into barracks for 60 single men, which is one of the works rendered necessary by the augmentation of troops. The expenditure on the work up to 1886-87 was Rs. 5,955, and a sum of Rs. 7,445 was appropriated during the current year in the orders on the demands on account of incomplete works of 1886-87. As the Suptg. Engineer V Circle requests that a further sum of Rs. 6,017 may be allotted for expenditure during the year, and as His Excellency the Commander-in-Chief considers that the work is urgent, I am directed to request that the Govt. of India will be pleased to sanction the amount, together with the usual percentage charges for Establishment and Tools and Plant.

3.12.87

Jell 5/12/87

Cir 5/12

Dested 7/12

95 5/12 10/12

circ. 5-12-87 R. 6-12-87

No. 3352/3353 dt 7th Dec 87

B-11/2/12

No. 3566.

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepák 30th November 1887.

From Colonel A. M. Vibart R.E,
SUPERINTENDING ENGINEER, V CIRCLE,

To THE Chief Engineer
P. W. Department

SIR,

Enclosures.

With reference to G.O.No. 2685 dated 12th October 1887, para 2, I have the honor to inform you that the Executive Engineer Presidency Division reports that Rs 6014 can be spent in the current official year against the Estimates sanctioned as per margin for Singlemen's Barracks in Fort St. George

G.O.No. 424 dt. 10.2.87.	A. Block into Singlemen's Barracks.	13400	
G.O.No. 2081 dt. 4.8.87.	Repairs. do	2447	
G.O.No. 2685 dt. + 12.10.87.	Latrine and Cookroom	3820	
POW 3000 Rs 9-11-87	Conv. & Abutment	1694	
- Deduct 2	General appn 5400 into barracks		
Expenditure in 1886-87 Rs 5955			25097
Amount of Grant for 1887-88	Rs 7445		13400.
	Balance Rs	6297.	

George and to request that the additional grant of £6014 may be appropriated.

I have the honor to
Sir.
Your most obed.t Serv.t
Richd Turnbull Abbott
Colt. R.E.
Superintending Engineer
5 Circle

S.O. 3000 W dy 9-11-87
" 2685 W - 12-10-87
" 2253 W - 22-8-87
" 2081 W - 4-8-87
" 2078 W - 4-8-87
" 427 W - 10-2-87
" 3326-27 W - 17-12-86
" 1084 W - 29-4-86

PWC No. 9784

No. 3566.

From

The Superintending Engineer
5th Circle

To

The Chief Engineer
P.W. Deptt

Dated 30th Nov/87.
Read 1-12-87

No. 3352/3353 W dy 7th Dec/87

Saidapet and Barracks
Fort St George

Informs that
Rs. 6017 can be spent
in the current Official
year against the works

5-12-87 R. 6-12-87

PUBLIC WORKS DEPARTMENT.

No. 3352 W

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 7th Dec/87

READ the following

From the Supdg. Engineer V Circle. M. E. No. 3566 dy 30th November 1887

Ordered that the Govt. of India be addressed.

M. E. No. 3352 W dy 7th Dec/87

To

The Secy to the Govt. of India
Military Department

Sir,

I am directed to invite your attention to para 4 of my letter No. 3327 W dated 17th December 1886, and to forward a copy of the Proceedings of this Govt No. 2253 W dated 22nd August 1887, from which it will be observed that His Excellency the Commander-in-Chief considers that the grants for works connected with the provision of extra accommodation for British troops consequent on augmentation of ~~increased~~ strength should not be

To

The Supdg. Engr. V Circle
" Military Department

7/12

fee met from the ordinary grants for the year.

2. Estimates aggregating Rs. 25,097 were sanctioned for the conversion of certain buildings in the Fort Saint George into barracks for 60 single men, which is one of the works rendered necessary by the augmentation of troops. The expenditure on the work up to 1886-87 was Rs. 5,955, and a sum of Rs. 7,445 was appropriated during the current year in the orders on the demands on account of incomplete works of 1886-87. The Supty. Engineer V Circle requests that a further sum of Rs. 6,017 may be allotted for expenditure during the year, and as His Excellency the Commander-in-Chief considers that the work is urgent, I am directed to request that the Govt. of India will be pleased to sanction the amount, together with the usual percentage charges for Establishment and Tools and Plant.

The Hon'ble Member

No 3352/3353 W dt 7th Dec 87

B. R. 7/12

3.12.87

5/12/87

Posted 7/12

7/12

9/12

10/12

c circ. 5-12-87 R. 6-12-87

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated February, 10th.

Recd. *Encl.*

G.O., 10th Feb. 1887, No. 427 W.

FEBRUARY.

A. Block Family Quarters, Fort St. George

Estimate of Rs. 13,400 for converting — into Royal Artillery single men's barracks, and providing a cook-house, sanctioned with remarks.

fee met from the ordinary grants for the

The Hon'ble Mr. Hudleston

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Colonel W. H. BURTON, R.E., Superintending Engineer, V Circle, to the Deputy Assistant Quartermaster-General, Eastern District, dated Chepâk, 25th December 1886, No. 4874.

I have the honor to forward, herewith, for disposal, the plan and estimate for conversion of A. block into single men's barrack and subsidiary accommodation for a garrison battery of Royal Artillery, to which the Deputy Surgeon-General, Her Majesty's Forces, Eastern District, has accorded a modified approval as per copy of extract of his letter marginally noted. In reference thereto, I would state that square bricks appear to have been adopted in Madras as material for barrack, but no other flooring, solely on account of its first cost being less than that of other and more suitable material. The after cost, however, of a brick floor is much greater. If the floor of A. block was made with Portland cement, the addition to the present estimate would be Rs. 3,225; and if with asphalte, as in the Station and General hospitals, the addition to the present estimate would be Rs. 6,800; but in my opinion asphalte floor would be in reality the more economical one on account of its greater permanency; it is, moreover, the only one, other than wood (the usual material for a barrack floor in England and the Colonies), which can be cleaned daily by washing. As the Deputy Surgeon-General has not yet given his approval to the proposals for the wash-house and latrine, the reference * made to me concerning those estimates cannot be dealt with until after the re-opening of the Public Works offices; so in view of the utilization of the grant for this work during the current year, I forward now the plan and estimate for conversion of the A. block.

Extract from letter from Deputy Surgeon-General, to Superintending Engineer, V Circle, dated 23rd December 1886, No. 66.

"I have the honor to state that in my opinion the plan of conversion of A. block appears suitable in all respects, except that the floor ought to be of asphalte, and not of brick, the former material being in every way preferable on sanitary grounds. The present condition of the Infantry barracks shows what an unsatisfactory floor for a barrack room the brick procurable here forms."

* In your endorsement, dated 16th December 1886, No. 4350.

Approved.

29th December 1886.

(Signed) A. C. JOHNSON, Major-General,
Commanding Eastern District.

From Colonel W. H. BURTON, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 25th January 1887, No. 5286.

As the estimates last submitted during Christmas holidays for the conversion of A. block, &c., into single men's quarters for additional accommodation in the fort have not as yet been sanctioned, I have the honor to surrender the whole of the existing grant of Rs. 17,160 of the item No. 4 of B. class works in the current year's budget.

No. 330 C., Public Works.

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

(By Order.)

28th January 1887. (Signed) W. L. C. BADDELEY, Captain, R.E., Under Secy. to Govt., P.W.D.

No. 617, Military.

Forwarded.

(By Order.)

31st January 1887. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Secretary to Government.

To the Quartermaster-General.

From Brigadier-General E. FAUNCE, Officiating Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 2nd February 1887, No. 512 A.

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

Abstract and detail estimates, amounting to Rs. 6,600, for converting the A. block family quarters, Fort St. George, into Royal Artillery single men's barracks, and providing a cook-house, with report, plan and letter, No. 4874, dated 25th December 1886, from the Superintending Engineer, V Circle.

2. The Commander-in-Chief considers that the floor should be of asphalte as being more economical in the long run, and desires me to request that the early sanction of Government may be accorded to this work, so that a beginning may be made before the termination of the current official year.

No. 740, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

FORT ST. GEORGE, 4th February 1887. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Secretary to Government.

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 4th February 1887, No. 537 A.

In returning letter, No. 5286, of 25th January 1887, from the Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, received under

your No. 617, of 31st idem, I am desired to state that the plan and estimate for the conversion of the A. block family quarters, Fort St. George, into single men's quarters, &c., for the garrison battery, Royal Artillery, was submitted to Government with this office No. 512 A., dated 2nd instant, and to express regret at the delay caused in their submission, which has been unavoidable.

2. A large item in the estimate is the cost of flooring the barracks with asphalte, a desideratum which the Commander-in-Chief considers both essential and economical, and as there are still nearly two months during which the work can be prosecuted, Sir Charles Arbuthnot considers it most undesirable that the amount should be surrendered, and desires me to express a hope that Government will be pleased to issue the necessary orders for the commencement of the work and for its being proceeded with as speedily as possible.

No. 796, Military.

Transferred to the Public Works Department, in continuation of Military Department No. 740, dated 4th February 1887, and the referred papers * returned.

* No. 330 C., dated 28th January 1887.
„ 414 C. „ 5th February „

(By Order.)

FORT ST. GEORGE, 7th February 1887. (Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Secretary to Government.

ORDER—dated 10th February 1887, No. 427 W., Public Works.

The estimate † submitted with the foregoing papers is, in accordance with the wishes of His Excellency the Commander-in-Chief, increased to Rs. 13,400, to provide for asphalte flooring, and is sanctioned for that amount.

† Converting A. block family quarters, Fort St. George, into Royal Artillery single men's barracks, and providing a cook-house.

2. The Superintending Engineer, V Circle, will take steps to utilise as much as possible of the current year's grant, and to put the work in hand on emergency. A corrected abstract estimate should be submitted for transmission to the Examiner, Public Works Accounts.

3. This sanction has been registered as Imperial Ordinary, No. 34 W. of 1886-87, and classified as Military Original Works.

(True Extract.)

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

To the Superintending Engineer, V Circle, with four enclosures.
„ Examiner, Public Works Accounts.
„ Military Department.

Exd. P. L. Pereira.
Spare Copies

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated August, 4th.

Recd. *Encl.*

G.O., 4th Aug. 1887, No. 2081 W.

AUGUST.

"A" Block of Family Quarters, Fort St. George

Estimate of Rs. 2,477, for repairing and white and color washing the —, now being converted into single men's barracks, sanctioned.

4th August 1887, No. 2081 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers:—

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 12th July 1887, No. 2439 A:—

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

Estimate, amounting to Rs. 2,536, for repairing, white and color washing the A block of family quarters converted into single men's barracks in Fort St. George, with report.

2. This estimate, classed under Original Works under paragraph 909, Public Works Department Code, is supplemental to that for Rs. 13,400 sanctioned in G.O., No. 427 W., of 10th February 1887, which does not include the items for which sanction is now sought, and which are absolutely necessary to render the building fit for occupation.

No. 4167, Military.

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

(By Order.)

Ootacamund, 13th July 1887. (Signed) A. R. KENNEY-HERBERT, Brigdr.-Genl., Secretary to Government.

Note by the Chief Engineer, Public Works Department.

Submitted with a recommendation that the percentage for contingencies be reduced to $2\frac{1}{2}$, and the estimate sanctioned for Rs. 2,477.

31st July 1887. (Signed) J. O. HASTED, Col., R.E., Chief Engineer, P.W.D.

Order—dated 4th August 1887, No. 2081 W., Public Works.

The estimate of Rs. 2,536, for repairing and white and color washing the A block of family quarters now being converted into single men's barracks, Fort St. George, has been reduced to Rs. 2,477, with reference to the note by the Chief Engineer, Public Works Department, above recorded, and sanction is accorded to the reduced amount, which will be considered as supplemental to the estimate of Rs. 13,400 sanctioned in G.O., No. 427 W., dated 10th February 1887.

2. This sanction has been registered as Imperial, Ordinary, No. 23 W. of 1887-88, and classified as Military, Original Works.

(True Extract.)

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

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

Exd. J. Moses.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated October, 12th.

Recd.

Encl.

G.O., 12th Oct. 1887, No. 2685 W.

OCTOBER.

Royal Artillery Sergeants' Mess and adjacent godowns, Fort St. George

Estimate for converting the —, into a latrine and lavatory for single men's barracks, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 29th September 1887, No. 3507 A.

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

Estimate, amounting to Rs. 3,820, for converting the Royal Artillery sergeants' mess and adjacent godowns, Fort St. George, into a latrine and lavatory for single men's barracks, Royal Artillery, with report and plan.

2. The early execution of these works is very desirable to complete the subsidiary buildings of the new barracks for the Royal Artillery in Fort St. George provided by the conversion of the old A block family quarters, British infantry, and, as mentioned in this office No. 2598 A, dated 23rd July 1887,* it is hoped that the required funds may be obtained out of a special grant for works in connection with the provision of extra accommodation required for increased strength of British troops.

* Proceedings of Government, No. 5643, of 14th September 1887.

No. 6017, Military.

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

(By Order.)

OOTACAMUND, 30th September 1887. (Signed) A. KENNEY-HERBERT, Brigdr.-Genl., Secretary to Government.

From the Quartermaster-General, dated 5th October 1887, No. 3654 A.
Endorsement, Military Department, „ 8th „ „ „ 6162.

ORDER—dated 12th October 1887, No. 2685 W., Public Works.

The estimate, amounting to Rs. 3,820, for converting the Royal Artillery sergeants' mess and adjacent godowns at Fort St. George into a latrine and lavatory for single men's barracks, is sanctioned as supplemental to the estimate of Rs. 15,877 referred to in G.O., No. 2081 W., dated 4th August 1887.

2. On receipt of information from the Superintending Engineer, V Circle, as to the amount that can be spent on the work during the current official year, in addition to the grant already provided, application will be made to the Government of India for a special allotment of funds, with reference to G.O., No. 2253 W., dated 22nd August 1887.

3. This sanction has been registered as Imperial, Ordinary, No. 37 W. of 1887-88, and classified as Military, Original Works.

(True Extract.)

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

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

EC

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated April, 21st.

Recd.

Encl.

G.O., 29th April 1886, No. 1084 W.

APRIL.

Budget Estimate

Imperial military works — for 1886-87.—
Orders circulating the final issue of the —.

FINAL ISSUE.

IMPERIAL.
MILITARY WORKS.

MADRAS.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

MILITARY WORKS

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1886-87.

CHEPÂK,
29th April 1886.

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

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ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE	2
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PART I.—DETAIL OF ESTIMATE FOR ORIGINAL WORKS, CLASS A	4 & 5
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APPENDIX B.—LIST OF CLASS C WORKS	8 to 13

IMPERIAL.
MILITARY WORKS.

MADRAS.

REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF THE PUBLIC WORKS DEPARTMENT FROM MILITARY WORKS IN MADRAS FROM 1st APRIL 1886 TO 31st MARCH 1887.

	Budget-Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	30,000	29,500	29,500	33,586
In Civil and Military Departments	...	...	...	...
Total ...	30,000	29,500	29,500	33,586

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT OF MILITARY WORKS IN MADRAS FOR THE YEAR FROM 1st APRIL 1886 TO 31st MARCH 1887.

	Reference to Detailed Estimate.	Budget-Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
		Rs.	Rs.	Rs.	Rs.
Original Works. In progress ...	...	58,996	1,89,204	2,29,646	2,09,361
Original Works. Not commenced.	...	1,49,039			
Repairs ... ... Ordinary ...	...	3,10,465	1,72,995	2,94,549	2,83,366
Repairs ... ... Special ...	...	...			
Establishment	...	1,20,700	84,205	1,20,563	1,14,345
Tools and Plant	...	5,200	3,596	5,242	4,935
Suspense Account	...	...	...	...	...
Total ...	...	6,44,400	4,50,000	6,50,000	6,12,007

IMPERIAL.
MILITARY WORKS.

MADRAS.

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL FUNDS AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

	BUDGET-ESTIMATE, 1886-87. Original Works. In progress.	Not commenced.	Total.	Repairs.	Establishment.	Tools and Plant.	Suspense Account.	Barrack Department.	Total.	Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
Provision from Imperial Funds.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
In India ...	58,996	1,49,039	2,08,035	3,10,465	1,20,700	5,200	...	...	6,44,400	4,50,000	6,50,000	6,12,007
In England.	...	...	...	...	...	...	...	...	...	...	...	250
Total ...	58,996	1,49,039	2,08,035	3,10,465	1,20,700	5,200	...	...	6,44,400	4,50,000	6,50,000	6,11,757
Provision from Contributions.												
In India ...	...	...	...	...	...	...	...	...	...	...	...	261
Grand Total.	58,996	1,49,039	2,08,035	3,10,465	1,20,700	5,200	...	...	6,44,400	4,50,000	6,50,000	6,12,018

STATEMENT SHOWING THE WORKS ON WHICH THE OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED.

	BUDGET-ESTIMATE, 1886-87. Original Works. In progress.	Not commenced.	Total.	Tools and Plant.	Suspense Account.	Total.	Revised Estimate, 1885-86.	Budget-Estimate, 1885-86.	Actuals, 1884-85.
	...	..	...	...	...	...	...	...	250
Total ...	...	...			...	...	...	...	250

PART

DETAIL OF THE BUDGET-ESTIMATE FOR

CLASS A

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
					Rs.
				IMPERIAL ORDINARY.	
				Military.	
				Original Works.	
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	West Coast.	Malapuram ...	1	Constructing a barracks for a detachment of British Infantry to accommodate 100 men.	1,35,094
	Chingleput.	St. Thomas' Mount.	2	New barracks for Royal Artillery...	1,46,910
	Do. ...	Do. ...	3	Constructing six blocks of stables for two field batteries of Royal Artillery.	21,702
(2) *Ordnance Works* ...	Presidency.	Fort St. George.	4	Armament of Fort St. George ...	42,035
(4) *Fortifications* ...	Do. ...	Madras ...	5	Alterations to the Coast Batteries.	14,265
	Do. ...	Bangalore ...	6	Fortified post at Agram	39,180
				Total ...	...

I.

ORIGINAL WORKS FOR THE YEAR 1886-87.

WORKS.

Outlay.		Grant, 1886-87.			Item No.	Remarks and References.
Actual to end of 1884-85.	Probable during 1885-86.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
83,531	31,448	20,115	...		1	G.O., No. 2845 W., dated 27th November 1885. Item No. 2, class A works, budget of 1885-86.
97,379	22,458	27,073	...		2	G.O., No. 1274 W., dated 2nd June 1885. Item No. 1, class A works, budget of 1885-86.
10,000	10,763	939	...	48,127	3	G.O., No. 2561 W., dated 2nd November 1885. Item No. 2, class B works, budget of 1885-86.
8,036	29,935	2,964	...	2,964	4	G.O., No. 2970 W., dated 19th October 1883. Item No. 4, class A works, budget of 1885-86.
...	6,266	6,025	...		5	G.O., No. 2126 W., dated 11th September 1885.
34,467	3,020	1,880	...		6	G.Os., Nos. 3059 W., dated 18th December 1885 and 250 W., dated 28th January 1886.
				7,905		
...	...	58,996	...	58,996		

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1886-87, BUT ON

APPENDIX B.

CLASS B WORKS.

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.
				IMPERIAL ORDINARY.	Rs.
				MILITARY.	
				Original Works.	
(1) *Accommodation for troops*— Buildings for European troops in the plains. Permanent.	Bellary ...	Bellary ...	1	Improving the system of water-supply to British Infantry Barracks.	...
	Do. ...	Do. ...	2	Alterations to prisons and adjoined buildings.	...
	Do. ...	Do. ...	3	New gunshed with collarmakers' and wheelers' shop for the Royal Artillery.	5,663
	Do. ...	Do. ...	4	Swimming-bath, British Infantry.	7,644
	Do. ...	Do. ...	5	Infectious disease ward, station hospital.	6,140
	Do. ...	Do. ...	6	Armourer's shop, 2nd Light Cavalry.	2,695
	Nilgiri ...	Wellington ...	7	Gymnasium	...
	Do. ...	Do. ...	8	Drinking-water to be laid on to hospital.	2,226
	Do.				
	Do. ...	Do. ...	9	Lock hospital	...
	Do. ...	Do. ...	10	Constructing quarters with outhouses for a Barrack Sergeant.	7,348
	West Coast.	Cannanore ...	11	Plunge-bath for British Infantry.	4,640
	Do. ...	Do. ...	12	Improving latrines for British Infantry.	2,780
	Presidency.	Fort St. George.	13	Drainage of fort and barracks ...	...
	Do. ...	Do. ...	14	Wash-house outside the barracks ...	...
	Do. ...	Do. ...	15	Garrison bazaars to be done away with and new cook-houses built.	...
	Do. ...	Do. ...	16	Converting A, B, C, and D blocks into barracks and quarters for a regiment of British Infantry and Garrison Battery of Royal Artillery.	...
	Do. ...	Do. ...	17	Converting a racket court into a covered gymnasium.	11,890
	Do. ...	Do. ...	18	Alterations necessary towards rendering the offices of the Accountant-General and Controller of Military Accounts suitable for occupation by troops.	...
	Do. ...	Bangalore ...	19	Schoolmaster and mistress' quarters, Royal Artillery.	...
	Do. ...	Do. ...	20	Quarters for the senior apothecary, north station hospital.	5,300
				Carried over ...	...

WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM WORKS.

Outlay.		Amount applied for 1886-87.			Item No.	Remarks and References.
Actual to end of 1884-85.	Probable during 1885-86.	Works in progress.	Works not commenced.	Total.		
Rs.	Rs.	Rs.	Rs.	Rs.		
...	...	...	5,350		1	Estimate is awaited.
...	...	...	11,260		2	Do. do.
...	...	...	5,663		3	G.O., No. 914 W., dated 3rd April 1884.
...	...	...	5,000		4	G.O., No. 2434 W., dated 19th October 1885.
...	...	...	5,000		5	G.O., No. 330 W., dated 7th February 1884.
...	...	...	2,695		6	G.O., No. 2266 W., dated 14th September 1881. Item No. 5, Class B works, budget of 1885-86.
...	...	...	10,000		7	Estimate is awaited.
...	...	...	5,000		8	G.O., No. 893 W., dated 2nd April 1886.
...	...	...	4,180		9	Estimate is awaited.
...	...	...	7,348		10	G.O., No. 1941 W., dated 21st August 1885.
...	...	...	4,640		11	G.O., No. 418, dated 16th February 1876.
...	...	...	2,780		12	G.O., No. 1056, dated 4th April 1879.
...	...	...	10,000		13	Estimate is awaited.
...	...	...	2,500		14	Do. do.
...	...	...	4,500		15	Do. do.
...	...	...	4,200		16	Do. do.
...	2,000	9,890	...		17	G.O., No. 1552 W., dated 20th June 1884. Item No. 1, class B works, budget of 1885-86.
...	...	...	40,000		18	Estimate is awaited.
...	...	...	6,200		19	Estimate is awaited.
...	...	...	5,300		20	G.O., No. 3385 W., dated 27th November 1883.
...	...	9,890	1,41,616	...		

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE OF 1886-87, BUT ON WHICH EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS—*cont.*

APPENDIX B—*cont.*

Head of Classification.	Executive Division.	Locality.	Item No.	Projects and Works.	Amount of Estimate.	Outlay. Actual to end of 1884-85.	Outlay. Probable during 1885-86.	Amount applied for 1886-87. Works in progress.	Amount applied for 1886-87. Works not commenced.	Amount applied for 1886-87. Total.	Item No.	Remarks and References.
				Brought forward ...	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
				IMPERIAL ORDINARY—*cont.*		...	...	9,890	1,41,616	...		
				MILITARY—*cont.*								
				Original Works—cont.								
(1) *Accommodation for troops*—Buildings for European troops in the plains. Permanent.	Presidency.	Bangalore ...	21	Quarters for the assistant apothecary, north station hospital.	4,773	...	...	...	4,773		21	G.O., No. 938 W., dated 5th April 1884.
	Do. ...	Do. ...	22	Constructing a fourth-class gymnasium.	44,600	1,788	...	42,812	...		22	G.O., No. 1560, dated 21st June 1876.
	Do. ...	Do. ...	23	Parade barracks—alterations and additions to wash-houses.	12,500	7,946	...	4,554	...		23	G.O., No. 1102 W., dated 7th May 1880.
	Chingleput.	St. Thomas' Mount.	24	A wheeler's and collarmaker's shop for the new Artillery barracks.	5,660	...	...	...	5,660		24	G.O., No. 2717 W., dated 3rd November 1884.
	Do. ...	Do. ...	25	Raising the roof of harness room, troop lines.	4,200	...	...	...	4,200		25	G.O., No. 3137 W., dated 17th December 1881.
	Do. ...	Do. ...	26	Wooden shed at the proof range ...	2,820	...	...	...	2,820		26	G.O., No. 3077 W., dated 13th December 1884.
	Do. ...	Do. ...	27	Converting the disused gunshed into a coffee shop, recreation room and library.	2,520	...	...	...	2,520		27	G.O., No. 1234 W., dated 28th May 1885.
	Do. ...	Pallávaram ...	28	Mortuary rooms for hospitals ...	...	...	...	...	3,000		28	Estimate is awaited.
	Do. ...	Do. ...	29	Constructing an armourer's shop ...	2,880	...	...	...	2,880		29	G.O., No. 3149 W., dated 22nd December 1884.
	Do. ...	Poonamallee.	30	Constructing a new double storied barracks.	1,66,885	6,854	...	20,000	...		30	G.O., No. 465 W., dated 19th February 1879.
	Do. ...	Do. ...	31	Providing lightning conductors to the hospital.	...	...	...	...	3,000		31	Estimate is awaited.
Accommodation for Native Troops.	Vizagapatam.	Vizianagrum ...	32	Regimental store-room for Native Infantry.	3,480	...	...	...	3,480	2,47,725	32	G.O., No. 2628 W., dated 27th October 1884.
	Bellary ...	Bellary ...	33	School-house for a Regiment, Native Infantry.	3,030	...	...	...	3,030		33	G.O., No. 149 W., dated 17th January 1884.
	Presidency.	Madras (Ráyapuram).	34	Flushing drains for Native Infantry lines.	4,300	...	...	...	4,300		34	G.O., No. 1937 W., dated 4th June 1884.
	Do. ...	Bangalore ...	35	Store-rooms and workshops for the Pioneer Regiment.	...	...	...	...	3,000		35	Estimate is awaited.
	Do. ...	Bangalore ...	36	Public buildings for a regiment of Native Cavalry.	23,490	...	...	...	14,000		36	G.O., No 1552 W., dated 20th June 1884. Item No. 4, Class B. Works, Budget of 1885-86.
	Trichinopoly	Trichinopoly.	37	Public buildings for two regiments of Native Infantry.	35,650	12,739	3,370	18,000	...		37	G.O., No. 2194 W., dated 5th September 1884. Item No. 3 Class A Works, Budget of 1885-86.
	Chingleput.	Pallávaram ...	38	Powder Magazine for a Native Infantry Regiment.	4,900	...	...	...	4,500	50,310	38	G.O., No. 334 W., dated 18th February 1886.
(2) *Ordnance Works* ...	Presidency.	Madras ...	39	Wall round the Gunpowder Factory.	...	...	...	...	10,000		39	Estimate is awaited.
				Carried over ...	...	...	...	95,256	2,12,779	...		

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers:—

Resolution of the Government of India, Military Department (Accounts—Budget), dated Fort William, 24th March 1886, No. 445 M.W.

Madras.

Orders on the Military Works Budget Estimate for 1886-87 *and Revised Estimate for* 1885-86.

Read—

Military Department Resolution, No. 1208 M.W., dated 27th October 1885.
Letter, No. 3093 W., dated 30th December 1885, from the Government of Madras.
Military Department telegram, No. 218 M.W., dated 18th February 1886.
Telegram, dated 19th February 1886, from Government of Madras.

Resolution—

The estimates of revenue are accepted for the sums entered in the following table:—

Revenue.

—	Budget estimate, 1886-87.	Revised estimate, 1885-86.	Budget estimate, 1885-86.	Actuals, 1884-85.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	30,000	29,500	29,500	33,586

Expenditure.

2. *Budget estimate*, 1886-87.—The estimate has been framed for the total provisional grant of Rs. 6,50,000 sanctioned in Military Department resolution, No. 1208 M.W., of the 27th October last. It is represented that the grant for minor works and repairs is insufficient to meet the requirements under these heads, and that a further grant of Rs. 1,94,000 * is necessary for this purpose. The Government of India are, however, not prepared to increase the grant already assigned, and desire that the distribution of the allotments for original works may be reconsidered with regard to the number of troops likely to be retained in Upper Burma. The amount of such reductions as may be decided upon may be applied to minor works and repairs subject to a total limit of Rs. 27,000 for minor works and Rs. 3,25,000 for repairs.

	Rs.
* Repairs	78,432
Minor works	78,000
	1,56,432
Establishment and tools and plant at 24 per cent.	37,544
	1,93,976
Or in round figures ...	1,94,000

3. The details of the estimate for original works are provisionally accepted subject to the following remarks:—

i.—Class A Works.—The allotments for items 1 to 7 are passed subject to the reconsideration referred to in paragraph 2. The grant for item 9, fortified post at Agram, is also passed provisionally, pending receipt of a report as to the nature of the further work to be carried out.

ii.—Class B Works.—None of the works in this list appear to the Government of India to be of much urgency: they might be postponed to the extent necessary to provide for increased allotments under the head minor works and repairs.

iii.—It is noticed that provision to the extent of Rs. 40,000 is proposed for alterations to the offices of the Accountant-General and Controller of Military Accounts to make the building suitable for the accommodation of troops. This expenditure would have been necessary had another building for the accommodation of the Military Account offices been acquired. But the scheme for the location of these offices in the building known as "The Mansion" has fallen through, and with it the need for the alterations. The proposed allotment of Rs. 49,600 * for alterations to the offices in the fort is accordingly withdrawn.

* Including establishment and tools and plant charges.

iv.—Item 9 (B), Constructing a new magazine in the Wallajah berm, Rs. 20,000.—The grant is passed provisionally, pending sanction of the Government of India to the commencement of the work; but the necessity of the work must first be fully explained and the estimate duly sanctioned.

v.—Accommodation for additional troops.—A special grant of Rs. 44,000 (including establishment and tools and plant charges) is hereby sanctioned to provide for additional accommodation owing to increased strength of British troops.

4. The modifications ordered in clauses iii and v of the foregoing paragraph result in a net reduction of the provisional grant of Rs. 6,50,000 by Rs. 5,600. The final issue of the budget estimate for 1886-87 should therefore be prepared for a total expenditure of Rs. 6,44,400.

5. *Revised Estimate for* 1885-86.—The estimate is passed for the full amount of the existing grant, Rs. 4,67,000.

6. The details of the estimates of expenditure passed by the Government of India are shown in the following table:—

	Budget estimate, 1886-87.	Revised estimate, 1885-86.	Budget estimate, 1885-86.	Actuals, 1884-85.
	Rs.	Rs.	Rs.	Rs.
Original Works { In progress	91,600	2,04,600	2,29,646	2,09,361
Original Works { Not commenced	1,01,000			
Repairs	3,25,000	1,71,300	2,94,549	2,83,366
Total, Works and Repairs	5,18,500	3,75,900	5,24,195	4,92,727
Establishment	1,20,700	87,400	1,20,563	1,14,345
Tools and Plant	5,200	3,700	5,242	4,935
Grand Total	6,44,400	4,67,000	6,50,000	6,12,007
Deduct—Expenditure in England	...	...	...	250
Net Indian outlay	6,44,400	4,67,000	6,50,000	6,11,757

7. It is observed that the estimates for the four class A works named in the margin have been revised without reference to the Government of India. It is of course within the competency of the Government of Madras to revise estimates within authorised limits, but in the case of military works it appears desirable that the Government of India should be informed of the causes which have led to the sanction of enhanced estimates.

	Amount of Estimate.	
	Budget, 1885-86.	Budget, 1886-87.
	Rs.	Rs.
Item 1.—Barrack for British Infantry, Malapuram ..	1,31,610	1,35,094
,, 3.—Royal Artillery barracks, St. Thomas' Mount.	1,35,050	1,46,910
,, 4.— Do. stables do. ..	20,160	21,702
,, 9.—Fortified post, Agram	34,280	38,790

8. The authority herewith given to incur expenditure within the limits of the grants shown in the table in paragraph 6 is subject to the condition of a strict observance of the rules in force with regard to the financial regularity of departmental work.

Order—

Ordered that the foregoing be communicated to the Government of Madras, for information and guidance, with the request that 45 printed copies of the budget estimate as now passed may be submitted so as to reach the Government of India not later than the 1st May 1886.

Ordered, also, that a copy be forwarded to the Accountant-General, Public Works Department, for information.

From Colonel E. FAUNCE, Officiating Quartermaster-General, to the Secretary to Government, Public Works Department, dated Ootacamund, 16th April 1886, No. 1540 A—Through the Secretary to Government, Military Department.

In reply to your letter, No. 1395C, of 6th instant, forwarding copy of resolution (*a*) of the Government of India on the military works budget of this presidency for the current year, I am desired to state as follows as regards the several points on which you request information.

(*a*) No. 445 M.W., of 24th March 1886.

I. The Commander-in-Chief regrets that he finds himself unable to recommend any modification of allotments for items 1 to 7, class A works, with reference to the number of troops likely to be retained in Upper Burma, the whole of them being works of special urgency; but, if Government consider it absolutely necessary to make a reduction in the allotment for original works, His Excellency, in deference to such opinion, would, though most reluctant to do so, suggest that expenditure be deferred on items * 2 and 5 only of that list. It may be observed here that, as under present conditions there is no probability of a third regiment of Madras Infantry being located at Trichinopoly, His Excellency has recently submitted† to the Government, in the Military Department, a proposal to appropriate from the grant of Rs. 18,000 made for buildings for two regiments, Madras Infantry, at that station (item No. 6) a sum of

	Grant.
	Rs.
* 2. Fort St. George: Converting a racquet court into a covered gymnasium	9,890
5. Bangalore: Public buildings for a regiment of Madras Cavalry ...	14,000

† Quartermaster-General's letter, No. 1420 A, of 7th April 1886.

Rs. 9,000 towards the execution of certain repairs necessary to the Commissariat granary buildings on the beach at Madras to render them suitable as store-rooms for the accommodation of stores to be removed from the casemates in Fort St. George, which it is contemplated ‡ to hand over to the Ordnance Department. The remainder of the grant (viz., Rs. 9,000), His Excellency proposes should be spent on the erection of a magazine at Trichinopoly for the one regiment, Madras Infantry, now placed on the new site, the only outlay actually requisite in the current year for buildings for that regiment, and on the construction of stone drains urgently required for the new lines there, regarding which Government will be addressed separately. Estimates for these works have not as yet been received, but, roughly, they may be expected to cost, the former about Rs. 2,000, and the latter about Rs. 7,000.

‡ Paragraph 8 of Quartermaster-General's letter, No. 345 A, of 28th January 1886, to Secretary to Government, Military Department.

II. The further works requisite on the Agram fortified post are those below noted as already sanctioned—

(*a*) A guard-room and fire-engine shed at Rs. 1,490, sanctioned in proceedings of Government, No. 3059 W., of 18th December 1885 (Military Department No. 48 of 5th January1886).

(*b*) A latrine at Rs. 390, sanctioned in proceedings of Government, No. 250 W., of 28th January 1886 (Military Department No. 827 of 8th February 1886).

These works represent an aggregate cost of Rs. 1,880, so that the grant for this year would be reduced from Rs. 5,000 (the amount fixed when the probable maintenance of an Ordnance depôt was contemplated) to Rs. 1,880, the saving of Rs. 3,120 passing to the grant for minor works. It may be here noted that the decision not to maintain an Ordnance depôt in the fortified post does not do away with the necessity for the works above mentioned, which will still be requisite for the guard, &c., to be kept in the post for the magazines and armament.

III. His Excellency is of opinion that all the works entered in class B of the preliminary issue of the budget are of real urgency, and cannot, therefore, well be postponed, but in view of the present financial pressure, His Excellency will be prepared to relinquish this year the grant (item No. 12) for constructing a drawbridge and gate for the Vellore fort (Rs. 6,450) in order to provide for increased allotments under minor works and repairs.

IV. The necessity for a new magazine in the Wallajah berm, in Fort St. George, is as follows and has already been explained to Government, in the Military Department, in letter, No. 345 A., of 28th January 1886, from this office.

(*a*) The existing magazines in Fort St. George are not considered safe and serviceable for the accommodation of the powder, &c., required for the fort armament.

(*b*) The Ordnance Department requires more accommodation than the magazine at the Mount alone provides for powder, &c., which of necessity is maintained at Madras and near it.

V. The only new additional buildings required in connection with the augmented strength of British troops in this presidency are stables * for 66 extra horses, British Cavalry, at Bangalore, estimated to cost Rs. 6,000, at Rs. 87 (say 90) per horse. Besides these new buildings, alterations to the British Cavalry Barracks * at Bangalore to provide for the extra men to cost approximately Rs. 1,000 and alterations and additions to blocks of married quarters and to the building late in occupation by the Adjutant-General, and now occupied by the offices of the Surgeon-General, Her Majesty's Forces, &c., in Fort St. George, rendered necessary by the withdrawal of the scheme for locating the Account offices outside the fort, are imperative to provide accommodation for troops. The cost of these latter alterations, &c., cannot here be stated as estimates for them have not yet been received, nor of the improvements

* Proceedings of Government, Military Department, No. 183, of 8th January 1886.

emergently required to the old barracks at St. Thomas' Mount which are now occupied by the I/4th Brigade, Royal Artillery, and detachment, 2nd Battalion, South Wales Borderers. His Excellency would therefore suggest that, in the final issue of the budget, the grant † of Rs. 44,000 for providing additional accommodation for British troops be distributed somewhat in the following manner:—

† Paragraph 3, clause 5, Government of India resolution above quoted.

Bangalore.

	Rs.
British Cavalry Barracks and Stables	8,000
Fort St. George and St. Thomas' Mount.	
Sundry alterations and improvements as above noted	36,000
Total ...	44,000

No. 2427, Military.

Forwarded.

OOTACAMUND, 19th April 1886.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col., Secretary to Government.

ORDER—dated 29th April 1886, No. 1084 W., Public Works.

The allotments for original works under classes A and B have, in communication with His Excellency the Commander-in-Chief, been revised as desired by the Government of India; and the final issue of the Imperial military works budget estimate for 1886-87 has been prepared, as shown below, for the reduced grant of Rs. 6,44,400 sanctioned by the Government of India in their resolution read at the head of these proceedings:—

		Rs.
Original works ...	In progress	58,996
	Not commenced	1,49,039
		2,08,035
Repairs		3,10,465
Establishment		1,20,700
Tools and plant		5,200
	Total ...	6,44,400

2. The provision for minor works has been increased to Rs. 27,000, the limit fixed by the Government of India; and that for repairs to the extent * of the available grant after distribution to Original Works, Establishment, and Tools and Plant.

* Rs. 3,10,465.

3. The further works to be carried out in connection with the fortified post at Agram are detailed in paragraph 2 of the Quartermaster-General's letter, No. 1540 A., dated 16th April 1886, recorded above; and in the opinion of His Excellency the Commander-in-Chief they are necessary. As the cost of these works amounts to Rs. 1,880 only, the provision made for the project in the preliminary budget has been reduced to the extent actually required.

4. The necessity for constructing a new magazine in the Wallajah berm, Fort St. George, has already been fully explained in Military Department letter, No. 1078, dated 18th February 1886; and the Government of India will now be requested to authorise the commencement of the work so soon as plans and estimates have been sanctioned. Steps should be taken for the early submission of the plans and estimates, which the Superintending Engineer, V Circle, reported would be ready in April 1886.

5. Provision to the extent fixed by the Government of India has been made for the additional buildings required in connection with the increased strength of British troops detailed in paragraph 5 of the Quartermaster-General's letter† recorded above. Estimates for the works should be submitted with the least possible delay.

† No. 1540 A., dated 16th April 1886.

6. The Government of India will be addressed with respect to the remarks in paragraph 7 of their resolution.

7. The sum of Rs. 9,000, required for the Commissariat granary buildings on the beach at Madras, will be allotted as an addition to the repair grant to the Presidency division for 1886-87 in the orders on the statement of demands on account of incomplete and minor works and repairs.

8. Provision has been made in the budget for the marginally-noted works which His Excellency the Commander-in-Chief considers urgent. The necessary estimates should be submitted without delay.

Erection of a magazine at Trichinopoly of one regiment of Madras Infantry.
Construction of stone drains required for the new lines at Trichinopoly.

9. The revised estimates for 1885-86 against "Original Works and Repairs," as shown in the preliminary issue, have been altered to Rs. 1,89,204 and Rs. 1,72,995 respectively, with reference to the transfers of funds since approved* by the Government of India, and to the transfer of Rs. 1,700 from repairs to original works, sanctioned in proceedings of the Madras Government, No. 152 W., dated 18th January 1886. In the absence of information requested in the telegrams noted in the margin, as to the cause of increase in the revised estimate as fixed by the Government of India, the amount shown in the preliminary issue has been retained.

* No. 99 W., dated 11th Jan. 1886.
" 679 W., " 13th Mar. "
" 764 W., " 22nd Mar. "

Telegram, dated 2nd April 1886.
" " 22nd " "

10. With these remarks, the final issue of the Imperial military works budget estimate for 1886-87 will be printed and circulated for the information and guidance of the officers of the department; copies, as noted in the margin, being forwarded to the Government of India.

To Simla	20
" Calcutta	25
	45

(Here enter No. 1085 W., dated 29th April 1886.)

(True Extract.)

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

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

Exd. E. Fernandez.
Spare Copies