GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

Read—the following papers :—

From M. W. ELLIOT, Esq., Chairman, Municipal Council, Cuddapah, to the Chief Secretary to Government (through the Collector of Cuddapah), dated Cuddapah, 21st October 1885, No. 349.

I have been desired to submit, for the consideration of Government, the enclosed memorandum by Mr. A. L. Dunphy, C.E., on Colonel Drake-Brockman's scheme for a water-supply for this municipality.

2. Copy of the resolution passed by the council at a special meeting held on the 14th instant is also submitted herewith.

No. 762.

Endorsement on the above.

Forwarded to the Chief Secretary to Government.

2. The Collector agrees with the council in thinking that the memorandum of Mr. A. L. Dunphy is worthy of consideration, but would remark that the infiltration gallery may not be so open to objection as Mr. Dunphy's remarks would lead one to suppose, as he understands that it would be in the bed of the Wanka below the influence of freshes, and further that the infiltration gallery reduces to a minimum the risk of the water-supply failing owing to drought, which consideration Mr. Dunphy appears to have overlooked.

Cuddapah,
23*rd October* 1885.

(Signed) C. A. BIRD,
Collector.

No. 445.

Official Memorandum.

With reference to his endorsement, No. 762, dated 23rd October 1885, on letter, No. 349, dated 21st idem, from the Chairman, Municipal Council, Cuddapah, the Collector of Cuddapah is requested to submit copies of Mr. Burrows' memorandum and of Mr. Dunphy's scheme for the water-supply of Cuddapah referred to in his present memorandum, and to retransmit the plans, estimates and specifications prepared by Major Drake-Brockman.

(By order.)

(Signed) J. D. REES,
Under Secy. to Govt.

4*th November* 1885.

To the Collector of Cuddapah.

From the Collector of Cuddapah, dated 28th November 1885, No. 854.

Abstract.—Submitting documents relating to the Cuddapah water-supply project.

No. 523.

Referred to the Public Works Department for favor of remarks.

(By Order.)

Fort St. George,
14*th December* 1885.

(Signed) J. D. REES,
Under Secy. to Govt.

To the Public Works Department, with four maps, sent separately, and eleven enclosures.

From Lieutenant-Colonel H. M. VIBART, R.E., Superintending Engineer, III Circle, to the Chief Engineer, Public Works Department, dated Bellary, 2nd March 1886, No. 2359.

Endorsement, No. 523, dated 14th December 1885, in the Financial Department, with 17 enclosures, 1 tin case containing 4 plans.

With reference to your memorandum, No. 2187 C., dated 17th December 1885, referring to me, for any remarks, Mr. Dunphy's scheme for the supply of Cuddapah, I have the honor to report as follows :—

I. Major Brockman's scheme provides an infiltration gallery through the bed of the river, a well and lifting station on the right bank and a masonry conduit to take water to the reservoir near the town.

II. Mr. Dunphy's provides a pumping station on left bank with a pipe passing *over* the river emptying into the service reservoir on the right bank; and from the reservoir, water is conducted by means of a pipe into the town.

2. I am disposed to prefer Major Brockman's scheme generally, as, although there may be a little risk of contamination of water, it can be obviated by strict supervision, and silt could be stopped in the well on the right bank, and if the well was made 2 or 3 feet deeper, the silt might be taken back into the river through a scouring sluice. In cases of drought, the infiltration gallery would prove of advantage. Major Brockman's scheme is for supplying the town and does not include the railway station and parts of municipality close to it, and as all parts of the municipality should derive benefit, Mr. Dunphy's scheme of reservoirs close to the right bank, with a pipe leading from it, would be preferable to a masonry conduit from the lifting station and a reservoir *below* the level of the railway station.

3. The following might, I think, be recommended :—

(1) The puddling and deepening of wells on left bank.
(2) The construction of the infiltration gallery across the river at as great a depth as practicable.
(3) A deep well on right bank with a scouring sluice.
(4) A two-days' service reservoir not far from the well.
(5) A main pipe leading to the town.
(6) Messrs. Burgess and Key's improved water-lift, to lift water from well to service reservoir.

4. Major Brockman's estimate has been increased to Rs. 87,300 by the Chief Engineer. A sum of Rs. 5,000 should be added to pay for an engineer to carry out the work.

5. I think it would be desirable if all these papers were sent to Major Drake-Brockman, as I think he should be allowed the opportunity of replying to the criticisms of Mr. Dunphy, if he desires to do so.

No. 942 C.

Forwarded, through the Superintending Engineer, II Circle, to Major Drake-Brockman, for any remarks he may desire to make.

Chepâk,
8*th March* 1886.

(Signed) D. McN. CAMPBELL, Major, R.E.,
Dy. Chief Engineer, P.W.D.

From Major R. DRAKE-BROCKMAN, R.E., A.I.C.E., Executive Engineer, Buckingham Canal Division, to the Superintending Engineer, II Circle, Bezváda, dated 29th March 1886, No. 4415.

[Reference 577-B.C., of 18th March 1886.]

I have the honor to return, with thanks, the papers and plans relating to the water-supply project for the town of Cuddapah with Mr. L. Dunphy's criticisms thereon, and to state that I have no desire to make any remarks in reply, but would leave my scheme to be judged by the Chief Engineer, Public Works Department, upon its own merits.

2. I may mention that the water-lift provided for in my estimate will cost £50, or 750 rupees. £500 was a clerical error. The sum allowed for in "contingencies" was intended to cover the cost of this item.

No. 9-B.C.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his endorsement, No. 942-C, of 8th March 1886, to Major Drake Brockman.

Madras,
8*th April* 1886.

(Signed) J. L. L. MORANT, Lt.-Col., R.E.,
Superintending Engineer, II Circle.

Note by the Chief Engineer, Public Works Department.

The Cuddapah water-supply project prepared by Major Drake-Brockman in 1884 was sanctioned (subject to some modifications proposed by the Chief Engineer) in G.O., No. 248 M., Financial, dated 6th July 1885.

2. The Cuddapah Municipal Council have now brought forward a scheme prepared by Mr. A. L. Dunphy in 1881, and submit it to Government with a memorandum by that gentleman.

3. The undersigned has the honor to remark that, if the municipality were satisfied with Mr. Dunphy's scheme in 1881, it is not understood why in 1884, they should have applied for the services of Major Drake-Brockman to prepare a fresh scheme. Major Brockman's project was approved by the Commissioners; examined and recommended for execution by the Superintending Engineer, III Circle; reviewed and approved with certain trifling modifications by the Chief Engineer, and finally sanctioned by the Government; but Mr. Dunphy now introduces another scheme, and raises numerous objections to that proposed by Major Brockman.

4. The estimated cost of Major Brockman's scheme, as sanctioned by the Government, amounts to Rs. 87,300; but it is now stated that there is a clerical error in the price of the water-lift, which was entered at Rs. 7,500, instead of Rs. 750; the proper amount of the estimate is therefore Rs. 80,550. Mr. Dunphy's scheme is estimated to cost Rs. 86,730.

5. The chief objection raised to Major Brockman's scheme appears to consist in the infiltration gallery, which, it is stated, will probably contaminate the water; but the gallery was distinctly approved in the Chief Engineer's note on the project; and the Collector in his endorsement, No. 762, dated 23rd October 1885, states his opinion that the gallery is not so open to objection as Mr. Dunphy thinks. The Superintending Engineer, III Circle, also prefers Major Brockman's gallery to the arrangement proposed by Mr. Dunphy.

6. An advantage claimed by Mr. Dunphy for his scheme is the greater head obtained, by which he uses smaller pipes with higher velocities, and thereby prevents deposit; but this point was doubtless fully considered by Major Brockman.

7. Other differences in the scheme are mere matters of detail.

8. In reviewing Mr. Dunphy's memorandum, the Superintending Engineer, III Circle, states that he prefers Major Brockman's scheme, but proposes certain modifications, which are not of much importance, and will not add materially to the cost.

9. The undersigned considers that Major Brockman's scheme should be adhered to, and that some of the modifications proposed by the Superintending Engineer should be adopted; the estimate would then stand as follows:—

		Rs.
Amount already sanctioned		87,300
Deduct on account of clerical error		6,750
	Total ..	80,550
Add—		
Puddling and deepening well on left bank		200
Constructing deep well on right bank		300
Pay of Engineer to carry out the work		5,000
	Total ..	86,050

OOTACAMUND,
28*th April* 1886.

(Signed) J. SHAW-STEWART, Col., R.E.,
Chief Engineer, P.W.D.

No. 55 D.

MEMORANDUM.

Transferred to the Financial Department, with advertence to endorsement in that department, No. 523, dated 14th December 1885.

OOTACAMUND,
29*th April* 1886.

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

To the Financial Department, with papers in original.

ORDER—dated 14th May 1886, No. 449 M., Financial.

Communicated to the Chairman, Municipal Council, Cuddapah, for information and guidance.

(True Extract.)

For Chief Secretary.

To the Chairman, Municipal Council, Cuddapah,
through the Collector, with enclosure and plan.
" Public Works Department.
" Accountant-General.
" Sanitary Commissioner for Madras.

Exd. A. Raitt.

B.No 1923W. 19.8.85 B.No 1590W. 25-6-86.
No 942C. 8.3.86
" 4678. 17.8.85
" 4788. 10.8.85
" 1786D. 3.8.85
B.No 565W 11.3.85
G.O. 2288W 16.9.86
No 1686. 1.6.86
" 2187C. 17.12.85
No. 1424W. 29.4.86 4th June 1886.
Comd to the

Supy. Engr. III Circle

and a copy of

furnished to

Major Drake

Brockman for

information.

Govt. of {1886} Madras.

FINANCIAL.

Issued

Recd. 29/5 Encl.

G.O., 14th May 1886, No. 449 M.

B.No. 1424W. d/4th June 1886.

MAY.

Water-Supply.

Communicating to the Chairman, Municipal Council, Cuddapah, for information and guidance, note by the Chief Engineer, Public Works Department, on the project of — in that municipality.

31/5/86

31-5-86

4.6.86

S.E. III Circle

Major Drake Brockman

Dewd 5/6/86

31-5-86 R 1.6.86

14TH MAY 1886, No. 449 M., FINANCIAL.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—the following papers :—

From M. W. ELLIOT, Esq., Chairman, Municipal Council, Cuddapah, to the Chief Secretary to Government (through the Collector of Cuddapah), dated Cuddapah, 21st October 1885, No. 349.

I have been desired to submit, for the consideration of Government, the enclosed memorandum by Mr. A. L. Dunphy, C.E., on Colonel Drake-Brockman's scheme for a water-supply for this municipality.

2. Copy of the resolution passed by the council at a special meeting held on the 14th instant is also submitted herewith.

No. 762.

Endorsement on the above.

Forwarded to the Chief Secretary to Government.

2. The Collector agrees with the council in thinking that the memorandum of Mr. A. L. Dunphy is worthy of consideration, but would remark that the infiltration gallery may not be so open to objection as Mr. Dunphy's remarks would lead one to suppose, as he understands that it would be in the bed of the Wanka below the influence of freshes, and further that the infiltration gallery reduces to a minimum the risk of the water-supply failing owing to drought, which consideration Mr. Dunphy appears to have overlooked.

CUDDAPAH,
23*rd October* 1885.

(Signed) C. A. BIRD,
Collector.

No. 445.

OFFICIAL MEMORANDUM.

With reference to his endorsement, No. 762, dated 23rd October 1885, on letter, No. 349, dated 21st idem, from the Chairman, Municipal Council, Cuddapah, the Collector of Cuddapah is requested to submit copies of Mr. Burrows' memorandum and of Mr. Dunphy's scheme for the water-supply of Cuddapah referred to in his present memorandum, and to retransmit the plans, estimates and specifications prepared by Major Drake-Brockman.

(By order.)

(Signed) J. D. REES,
Under Secy. to Govt.

4th November 1885.

To the Collector of Cuddapah.

From the Collector of Cuddapah, dated 28th November 1885, No. 854.

ABSTRACT.—Submitting documents relating to the Cuddapah water-supply project.

No. 523.

Referred to the Public Works Department for favor of remarks.

(By Order.)

FORT ST. GEORGE,
14th December 1885.

(Signed) J. D. REES,
Under Secy. to Govt.

To the Public Works Department, with four maps, sent separately, and eleven enclosures.

From Lieutenant-Colonel H. M. VIBART, R.E., Superintending Engineer, III Circle, to the Chief Engineer, Public Works Department, dated Bellary, 2nd March 1886, No. 2359.

Endorsement, No. 523, dated 14th December 1885, in the Financial Department, with 17 enclosures, 1 tin case containing 4 plans.

With reference to your memorandum, No. 2187 C., dated 17th December 1885, referring to me, for any remarks, Mr. Dunphy's scheme for the supply of Cuddapah, I have the honor to report as follows :—

I. Major Brockman's scheme provides an infiltration gallery through the bed of the river, a well and lifting station on the right bank and a masonry conduit to take water to the reservoir near the town.

II. Mr. Dunphy's provides a pumping station on left bank with a pipe passing *over* the river emptying into the service reservoir on the right bank; and from the reservoir, water is conducted by means of a pipe into the town.

2. I am disposed to prefer Major Brockman's scheme generally, as, although there may be a little risk of contamination of water, it can be obviated by strict supervision, and silt could be stopped in the well on the right bank, and if the well was made 2 or 3 feet deeper, the silt might be taken back into the river through a scouring sluice. In cases of drought, the infiltration gallery would prove of advantage. Major Brockman's scheme is for supplying the town and does not include the railway station and parts of municipality close to it, and as all parts of the municipality should derive benefit, Mr. Dunphy's scheme of reservoirs close to the right bank, with a pipe leading from it, would be preferable to a masonry conduit from the lifting station and a reservoir *below* the level of the railway station.

3. The following might, I think, be recommended :—

(1) The puddling and deepening of wells on left bank.
(2) The construction of the infiltration gallery across the river at as great a depth as practicable.
(3) A deep well on right bank with a scouring sluice.
(4) A two-days' service reservoir not far from the well.
(5) A main pipe leading to the town.
(6) Messrs. Burgess and Key's improved water-lift, to lift water from well to service reservoir.

4. Major Brockman's estimate has been increased to Rs. 87,300 by the Chief Engineer. A sum of Rs. 5,000 should be added to pay for an engineer to carry out the work.

5. I think it would be desirable if all these papers were sent to Major Drake-Brockman, as I think he should be allowed the opportunity of replying to the criticisms of Mr. Dunphy, if he desires to do so.

No. 942 C.

Forwarded, through the Superintending Engineer, II Circle, to Major Drake-Brockman, for any remarks he may desire to make.

CHEPÂK,
8th March 1886.

(Signed) D. McN. CAMPBELL, Major, R.E.,
Dy. Chief Engineer, P.W.D.

From Major R. DRAKE-BROCKMAN, R.E., A.I.C.E., Executive Engineer, Buckingham Canal Division, to the Superintending Engineer, II Circle, Bezváda, dated 29th March 1886, No. 4415.

[Reference 577-B.C., of 18th March 1886.]

I have the honor to return, with thanks, the papers and plans relating to the water-supply project for the town of Cuddapah with Mr. L. Dunphy's criticisms thereon, and to state that I have no desire to make any remarks in reply, but would leave my scheme to be judged by the Chief Engineer, Public Works Department, upon its own merits.

2. I may mention that the water-lift provided for in my estimate will cost £50, or 750 rupees. £500 was a clerical error. The sum allowed for in "contingencies" was intended to cover the cost of this item.

No. 9-B.C.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his endorsement, No. 942-C, of 8th March 1886, to Major Drake Brockman.

MADRAS,
8th April 1886.

(Signed) J. L. L. MORANT, Lt.-Col., R.E.,
Superintending Engineer, II Circle.

Note by the Chief Engineer, Public Works Department.

The Cuddapah water-supply project prepared by Major Drake-Brockman in 1884 was sanctioned (subject to some modifications proposed by the Chief Engineer) in G.O., No. 248 M., Financial, dated 6th July 1885.

2. The Cuddapah Municipal Council have now brought forward a scheme prepared by Mr. A. L. Dunphy in 1881, and submit it to Government with a memorandum by that gentleman.

3. The undersigned has the honor to remark that, if the municipality were satisfied with Mr. Dunphy's scheme in 1881, it is not understood why in 1884, they should have applied for the services of Major Drake-Brockman to prepare a fresh scheme. Major Brockman's project was approved by the Commissioners; examined and recommended for execution by the Superintending Engineer, III Circle; reviewed and approved with certain trifling modifications by the Chief Engineer, and finally sanctioned by the Government; but Mr. Dunphy now introduces another scheme, and raises numerous objections to that proposed by Major Brockman.

4. The estimated cost of Major Brockman's scheme, as sanctioned by the Government, amounts to Rs. 87,300; but it is now stated that there is a clerical error in the price of the water-lift, which was entered at Rs. 7,500, instead of Rs. 750; the proper amount of the estimate is therefore Rs. 80,550. Mr. Dunphy's scheme is estimated to cost Rs. 86,730.

5. The chief objection raised to Major Brockman's scheme appears to consist in the infiltration gallery, which, it is stated, will probably contaminate the water; but the gallery was distinctly approved in the Chief Engineer's note on the project; and the Collector in his endorsement, No. 762, dated 23rd October 1885, states his opinion that the gallery is not so open to objection as Mr. Dunphy thinks. The Superintending Engineer, III Circle, also prefers Major Brockman's gallery to the arrangement proposed by Mr. Dunphy.

6. An advantage claimed by Mr. Dunphy for his scheme is the greater head obtained, by which he uses smaller pipes with higher velocities, and thereby prevents deposit; but this point was doubtless fully considered by Major Brockman.

7. Other differences in the scheme are mere matters of detail.

8. In reviewing Mr. Dunphy's memorandum, the Superintending Engineer, III Circle, states that he prefers Major Brockman's scheme, but proposes certain modifications, which are not of much importance, and will not add materially to the cost.

9. The undersigned considers that Major Brockman's scheme should be adhered to, and that some of the modifications proposed by the Superintending Engineer should be adopted; the estimate would then stand as follows:—

		RS.
Amount already sanctioned		87,300
Deduct on account of clerical error		6,750
Add—	Total ..	80,550
Puddling and deepening well on left bank		200
Constructing deep well on right bank		300
Pay of Engineer to carry out the work		5,000
	Total ..	86,050

OOTACAMUND,
28*th April* 1886.

(Signed) J. SHAW-STEWART, Col., R.E.,
Chief Engineer, P.W.D.

No. 55 D.

MEMORANDUM.

Transferred to the Financial Department, with advertence to endorsement in that department, No. 523, dated 14th December 1885.

OOTACAMUND,
29*th April* 1886.

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

To the Financial Department, with papers in original.

ORDER—dated 14th May 1886, No. 449 M., Financial.

Communicated to the Chairman, Municipal Council, Cuddapah, for information and guidance.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the Chairman, Municipal Council, Cuddapah,
through the Collector, with enclosure and plan.
" Public Works Department.
" Accountant-General.
" Sanitary Commissioner for Madras.

Exd. A. Raitt.

No. 1424 W. d/ 4th June 1886.

Communicated to the Supg. Engineer III Circle, and a copy furnished to Major Drake Brockman for information.

1st/ JSS W

Govt. of {1886} Madras.

FINANCIAL.

Issued

Recd. Encl.

G.O., 14th May 1886, No. 449 M.

B. No. 1424 W. d/ 4th June 1886

MAY.

Supg. Engr. III Circle

Major Drake Brockman

Water-Supply.

Communicating to the Chairman, Municipal Council, Cuddapah, for information and guidance, note by the Chief Engineer, Public Works Department, on the project of — in that municipality.

With order

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

Read—the following papers:—

From M. W. ELLIOT, Esq., Chairman, Municipal Council, Cuddapah, to the Chief Secretary to Government (through the Collector of Cuddapah), dated Cuddapah, 21st October 1885, No. 349.

I have been desired to submit, for the consideration of Government, the enclosed memorandum by Mr. A. L. Dunphy, C.E., on Colonel Drake-Brockman's scheme for a water-supply for this municipality.

2. Copy of the resolution passed by the council at a special meeting held on the 14th instant is also submitted herewith.

No. 762.

Endorsement on the above.

Forwarded to the Chief Secretary to Government.

2. The Collector agrees with the council in thinking that the memorandum of Mr. A. L. Dunphy is worthy of consideration, but would remark that the infiltration gallery may not be so open to objection as Mr. Dunphy's remarks would lead one to suppose, as he understands that it would be in the bed of the Wanka below the influence of freshes, and further that the infiltration gallery reduces to a minimum the risk of the water-supply failing owing to drought, which consideration Mr. Dunphy appears to have overlooked.

Cuddapah,
23*rd October* 1885.

(Signed) C. A. BIRD,
Collector.

No. 445.

Official Memorandum.

With reference to his endorsement, No. 762, dated 23rd October 1885, on letter, No. 349, dated 21st idem, from the Chairman, Municipal Council, Cuddapah, the Collector of Cuddapah is requested to submit copies of Mr. Burrows' memorandum and of Mr. Dunphy's scheme for the water-supply of Cuddapah referred to in his present memorandum, and to retransmit the plans, estimates and specifications prepared by Major Drake-Brockman.

(By order.)

4th November 1885.

(Signed) J. D. REES,
Under Secy. to Govt.

To the Collector of Cuddapah.

From the Collector of Cuddapah, dated 28th November 1885, No. 854.

Abstract.—Submitting documents relating to the Cuddapah water-supply project.

No. 523.

Referred to the Public Works Department for favor of remarks.

(By Order.)

Fort St. George,
14*th December* 1885.

(Signed) J. D. REES,
Under Secy. to Govt.

To the Public Works Department, with four maps,
sent separately, and eleven enclosures.

From Lieutenant-Colonel H. M. VIBART, R.E., Superintending Engineer, III Circle, to the Chief Engineer, Public Works Department, dated Bellary, 2nd March 1886, No. 2359.

Endorsement, No. 523, dated 14th December 1885, in the Financial Department, with 17 enclosures, 1 tin case containing 4 plans.

With reference to your memorandum, No. 2187 C., dated 17th December 1885, referring to me, for any remarks, Mr. Dunphy's scheme for the supply of Cuddapah, I have the honor to report as follows:—

I. Major Brockman's scheme provides an infiltration gallery through the bed of the river, a well and lifting station on the right bank and a masonry conduit to take water to the reservoir near the town.

II. Mr. Dunphy's provides a pumping station on left bank with a pipe passing *over* the river emptying into the service reservoir on the right bank; and from the reservoir, water is conducted by means of a pipe into the town.

2. I am disposed to prefer Major Brockman's scheme generally, as, although there may be a little risk of contamination of water, it can be obviated by strict supervision, and silt could be stopped in the well on the right bank, and if the well was made 2 or 3 feet deeper, the silt might be taken back into the river through a scouring sluice. In cases of drought, the infiltration gallery would prove of advantage. Major Brockman's scheme is for supplying the town and does not include the railway station and parts of municipality close to it, and as all parts of the municipality should derive benefit, Mr. Dunphy's scheme of reservoirs close to the right bank, with a pipe leading from it, would be preferable to a masonry conduit from the lifting station and a reservoir *below* the level of the railway station.

3. The following might, I think, be recommended:—

(1) The puddling and deepening of wells on left bank.
(2) The construction of the infiltration gallery across the river at as great a depth as practicable.
(3) A deep well on right bank with a scouring sluice.
(4) A two-days' service reservoir not far from the well.
(5) A main pipe leading to the town.
(6) Messrs. Burgess and Key's improved water-lift, to lift water from well to service reservoir.

4. Major Brockman's estimate has been increased to Rs. 87,300 by the Chief Engineer. A sum of Rs. 5,000 should be added to pay for an engineer to carry out the work.

5. I think it would be desirable if all these papers were sent to Major Drake-Brockman, as I think he should be allowed the opportunity of replying to the criticisms of Mr. Dunphy, if he desires to do so.

No. 942 C.

Forwarded, through the Superintending Engineer, II Circle, to Major Drake-Brockman, for any remarks he may desire to make.

Chepâk,
8*th March* 1886.

(Signed) D. McN. CAMPBELL, Major, R.E.,
Dy. Chief Engineer, P.W.D.

From Major R. DRAKE-BROCKMAN, R.E., A.I.C.E., Executive Engineer, Buckingham Canal Division, to the Superintending Engineer, II Circle, Bezváda, dated 29th March 1886, No. 4415.

[Reference 577-B.C., of 18th March 1886.]

I have the honor to return, with thanks, the papers and plans relating to the water-supply project for the town of Cuddapah with Mr. L. Dunphy's criticisms thereon, and to state that I have no desire to make any remarks in reply, but would leave my scheme to be judged by the Chief Engineer, Public Works Department, upon its own merits.

2. I may mention that the water-lift provided for in my estimate will cost £50, or 750 rupees. £500 was a clerical error. The sum allowed for in "contingencies" was intended to cover the cost of this item.

No. 9-B.C.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his endorsement, No. 942-C, of 8th March 1886, to Major Drake Brockman.

Madras,
8*th April* 1886.

(Signed) J. L. L. MORANT, Lt.-Col., R.E.,
Superintending Engineer, II Circle.

Note by the Chief Engineer, Public Works Department.

The Cuddapah water-supply project prepared by Major Drake-Brockman in 1884 was sanctioned (subject to some modifications proposed by the Chief Engineer) in G.O., No. 248 M., Financial, dated 6th July 1885.

2. The Cuddapah Municipal Council have now brought forward a scheme prepared by Mr. A. L. Dunphy in 1881, and submit it to Government with a memorandum by that gentleman.

3. The undersigned has the honor to remark that, if the municipality were satisfied with Mr. Dunphy's scheme in 1881, it is not understood why in 1884, they should have applied for the services of Major Drake-Brockman to prepare a fresh scheme. Major Brockman's project was approved by the Commissioners; examined and recommended for execution by the Superintending Engineer, III Circle; reviewed and approved with certain trifling modifications by the Chief Engineer, and finally sanctioned by the Government; but Mr. Dunphy now introduces another scheme, and raises numerous objections to that proposed by Major Brockman.

4. The estimated cost of Major Brockman's scheme, as sanctioned by the Government, amounts to Rs. 87,300; but it is now stated that there is a clerical error in the price of the water-lift, which was entered at Rs. 7,500, instead of Rs. 750; the proper amount of the estimate is therefore Rs. 80,550. Mr. Dunphy's scheme is estimated to cost Rs. 86,730.

5. The chief objection raised to Major Brockman's scheme appears to consist in the infiltration gallery, which, it is stated, will probably contaminate the water; but the gallery was distinctly approved in the Chief Engineer's note on the project; and the Collector in his endorsement, No. 762, dated 23rd October 1885, states his opinion that the gallery is not so open to objection as Mr. Dunphy thinks. The Superintending Engineer, III Circle, also prefers Major Brockman's gallery to the arrangement proposed by Mr. Dunphy.

6. An advantage claimed by Mr. Dunphy for his scheme is the greater head obtained, by which he uses smaller pipes with higher velocities, and thereby prevents deposit; but this point was doubtless fully considered by Major Brockman.

7. Other differences in the scheme are mere matters of detail.

8. In reviewing Mr. Dunphy's memorandum, the Superintending Engineer, III Circle, states that he prefers Major Brockman's scheme, but proposes certain modifications, which are not of much importance, and will not add materially to the cost.

9. The undersigned considers that Major Brockman's scheme should be adhered to, and that some of the modifications proposed by the Superintending Engineer should be adopted; the estimate would then stand as follows:—

		RS.
Amount already sanctioned		87,300
Deduct on account of clerical error		6,750
	Total ..	80,550
Add—		
Puddling and deepening well on left bank		200
Constructing deep well on right bank		300
Pay of Engineer to carry out the work		5,000
	Total ..	86,050

OOTACAMUND,
28*th April* 1886.

(Signed) J. SHAW-STEWART, Col., R.E.,
Chief Engineer, P.W.D.

No. 55 D.

MEMORANDUM.

Transferred to the Financial Department, with advertence to endorsement in that department, No. 523, dated 14th December 1885.

OOTACAMUND,
29*th April* 1886.

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

To the Financial Department, with papers in original.

ORDER—dated 14th May 1886, No. 449 M., Financial.

Communicated to the Chairman, Municipal Council, Cuddapah, for information and guidance.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the Chairman, Municipal Council, Cuddapah,
through the Collector, with enclosure and plan.
„ Public Works Department.
„ Accountant-General.
„ Sanitary Commissioner for Madras.

Exd. A. Raitt.

30-9-15

No. 1424 W. d/ 4th June 1886

Communicated to the
Supg. Engineer III Circle,
and a copy furnished to
Major Drake-Brockman
for information.

Sd/ J. S.

Govt. of {1886} Madras.

FINANCIAL.

Issued

Recd. Encl.

G.O., 14th May 1886, No. 449 M.

B. No. 1424 W. d/ 4th June 1886.

MAY.

S.E. III C

Major Drake Brockman

Water-Supply.

Communicating to the Chairman, Municipal Council, Cuddapah, for information and guidance, note by the Chief Engineer, Public Works Department, on the project of — in that municipality.

Withdrawn

GOVERNMENT OF MADRAS

MILITARY DEPARTMENT.

22nd May 1886, No. 3112.

Quarters—Office.

Read the following papers :—

No. 310. *From.* Major D. J. S. McLEOD, *Deputy Quarter Master General, to* Lieutenant-Colonel A. KENNEY-HERBERT, *Secretary to Government, Military Department ; dated Ootacamund, 5th March* 1886, *No.* 853-*A.*

Under the old regulations,* each Divisional and District Staff Officer of this Department received a sum of Rs. 30 per mensem as "office rentage," or an allowance for providing accommodation for an office, when no suitable public building was available for the purpose.

* Para. 83, Section XIX, Military Pay and Audit Regulations of 1861.

2. The amount of this allowance is included in the special office allowances to Staff Officers of this Department in the Hyderabad Subsidiary Force, British Burma Division, Nagpore Force, Ceded Districts and Western District, as laid down in the footnote to para. 75, Army Regulations, India, Volume I, public buildings not having been made available for the purpose in those commands at the time this Code of Regulations was published.

3. But the only command in which the Staff Officer of this Department has to provide an office and receives the allowance of Rs. 30 for doing so now, is the British Burma Division.

4. The Commander-in-Chief has received several representations from that Command, to the effect that the allowance in question is inadequate to meet the extra expense which the officer concerned has to incur in the provision of suitable accommodation for an office, but it being hoped that it would be found practicable before long to accommodate the Divisional Staff Offices of the British Burma Division in public buildings like those of other Commands, the matter was not brought forward.

5. Now, however, that the contract system of office allowances for clerks, &c., in Divisional and District Offices of this Department has been abandoned, the contract allowance for office rent, which was part of that system, should in the opinion of the Commander-in-Chief be abandoned likewise, to place Staff Offices of this Department in this Presidency on the same footing as those in other Presidencies, where office accommodation is given "rent free."†

† Para. 1 of Military Department letter, No. 412-C., of 12th June 1885.

6. His Excellency would accordingly solicit that he may be authorized to require the Public Works Department, British Burma, to provide a suitable building by purchase or hire, should no public building be available, for the Staff Office of this Department in Rangoon, exactly in the same way as it might be required to provide accommodation for any other public purpose.

7. In order that Government may understand how hardly the old system of office rent operates, Sir H. Macpherson desires me to submit with this letter a representation * on the subject recently received from the Assistant Quarter-Master General, British Burma Division, which will show how necessary it is that a change should be made, if only for the relief of the officer concerned, independently of other considerations, which, as before stated, require the change to be made as part of the new system.

* No. 43-G., dated 12th February 1886.

8. Reference has been made above only to the office of this department at Rangoon, because it alone is concerned in the recent change of system of office allowances, but Sir H. Macpherson would submit, for the consideration of Government, that it would be very desirable, in the interest of the public service as tending to the better transaction of business, if the Government would sanction provision by the Public Works Department of office accommodation for the Office of the Assistant Adjutant-General of the British Burma Division also, so that both offices might be located under one roof as they now are at the head-quarters of every other Command.

No. 311. *With report from Controller of Military Accounts ; 1st Apr.* 1886, *B.*

No. 312. *To the Secretary to the Government of India, Military Department; dated 12th April* 1886, *No.* 2290.

No. 313. *From Colonel O. R. NEWMARCH, Officiating Secretary to the Government of India, Military Department, to the Chief Commissioner, British Burma ; dated Simla, 5th May* 1886, *No.* 653-*M.W.*

Staff and Miscellaneous—Offices.

I am directed to forward the correspondence noted in the margin relative to the provision of accommodation for the offices of the Quarter Master General and Adjutant-General's Departments at Rangoon.

From Government of Madras, Military Department, No. 2290, dated 12th April 1886, and enclosures.

(Return requested.)

2. The Government of India consider that it would be advisable to concentrate not only these offices in one building, but also, if feasible, that the Medical, Commissariat and Transport Offices should be brought under the same roof. I am accordingly to ask that the Government of India may receive a report, prepared after consultation with the local military authorities, showing how in your opinion this may be most economically effected. The report should be accompanied by a rough plan and approximate estimate of cost of your proposals.

3. I am to add that at one station in Bengal the concentration of the offices at divisional head-quarters has been conveniently arranged for by inducing a local capitalist to provide the necessary building on a guarantee that it would be taken at a fixed rent for a number of years.

No. 653-M.W.

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

(By Order.)

SIMLA,
5th May 1886.

(Signed) J. E. BROADBENT, Capt., R.E.,
Asst. Secy. to the Govt. of India.

No. 314. ORDER THEREON, 22nd May 1886, No. 3112.

Ordered that the foregoing letter from the Government of India be communicated to His Excellency the Commander-in-Chief.

(True Extract.)

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

To the Quarter Master General.
" Controller of Military Accounts.
" Public Works Department, for information.

Exd. E. C. Shunker.

5 P/C

No. 1425 W. d/ 4th June 1886

Communicated to Supdg. Engrs: for information.

(Sd) J. S. S.
W.

Govt. of {1886} Madras.

MILITARY.

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

P/ 5 P/C / 4052/86

Dated May, 22nd.

Issued

Recd. *Encl.*

G.O., 22nd May 1886, No. 3112.

No. 1425 W. d/ 4th June 1886

MAY.
Nos. 310—314.

Quarters—Office.

Rangoon.—Correspondence from the Government of India regarding the concentration in one building of the Offices of the Quarter Master General and Adjutant-General's Departments, also, if feasible, the Medical, Commissariat and Transport Offices, at —, communicated to His Excellency the Commander-in-Chief.

Supdg. Engrs:

GOVERNMENT OF MADRAS

MILITARY DEPARTMENT.

22d May 1886, No. 3112

Quarters—Office.

Read the following papers :—

No. . *From Major D. J. S. McLEOD, Deputy Quarter Master General, to Lieutenant-Colonel A. KENNEY-HERBERT, Secretary to Government, Military Department; dated Ootacamund, 5th March* 1886, *No.* 853-*A.*

Under the old regulations,* each Divisional and District Staff Officer of this Department received a sum of Rs. 30 per mensem as "office rentage," or an allowance for providing accommodation for an office, when no suitable public building was available for the purpose.

* Para. 83, Section XIX, Military Pay and Audit Regulations of 1861.

2. The amount of this allowance is included in the special office allowances to Staff Officers of this Department in the Hyderabad Subsidiary Force, British Burma Division, Nagpore Force, Ceded Districts and Western District, as laid down in the footnote to para. 75, Army Regulations, India, Volume I, public buildings not having been made available for the purpose in those commands at the time this Code of Regulations was published.

3. But the only command in which the Staff Officer of this Department has to provide an office and receives the allowance of Rs. 30 for doing so now, is the British Burma Division.

4. The Commander-in-Chief has received several representations from that Command, to the effect that the allowance in question is inadequate to meet the extra expense which the officer concerned has to incur in the provision of suitable accommodation for an office, but it being hoped that it would be found practicable before long to accommodate the Divisional Staff Offices of the British Burma Division in public buildings like those of other Commands, the matter was not brought forward.

5. Now, however, that the contract system of office allowances for clerks, &c., in Divisional and District Offices of this Department has been abandoned, the contract allowance for office rent, which was part of that system, should in the opinion of the Commander-in-Chief be abandoned likewise, to place Staff Offices of this Department in this Presidency on the same footing as those in other Presidencies, where office accommodation is given "rent free."†

† Para. 1 of Military Department letter, No. 412-C., of 12th June 1885.

6. His Excellency would accordingly solicit that he may be authorized to require the Public Works Department, British Burma, to provide a suitable building by purchase or hire, should no public building be available, for the Staff Office of this Department in Rangoon, exactly in the same way as it might be required to provide accommodation for any other public purpose.

7. In order that Government may understand how hardly the old system of office rent operates, Sir H. Macpherson desires me to submit with this letter a representation * on the subject recently received from the Assistant Quarter-Master General, British Burma Division, which will show how necessary it is that a change should be made, if only for the relief of the officer concerned, independently of other considerations, which, as before stated, require the change to be made as part of the new system.

* No. 43-G., dated 12th February 1886.

8. Reference has been made above only to the office of this department at Rangoon, because it alone is concerned in the recent change of system of office allowances, but Sir H. Macpherson would submit, for the consideration of Government, that it would be very desirable, in the interest of the public service as tending to the better transaction of business, if the Government would sanction provision by the Public Works Department of office accommodation for the Office of the Assistant Adjutant-General of the British Burma Division also, so that both offices might be located under one roof as they now are at the head-quarters of every other Command.

No. . *With report from Controller of Military Accounts ; 1st Apr.* 1886, *B.*

No. . *To the Secretary to the Government of India, Military Department; dated 12th April* 1886, *No.* 2290.

No. . *From Colonel O. R. NEWMARCH, Officiating Secretary to the Government of India, Military Department, to the Chief Commissioner, British Burma ; dated Simla, 5th May* 1886, *No.* 653-*M.W.*

Staff and Miscellaneous—Offices.

I am directed to forward the correspondence noted in the margin relative to the provision of accommodation for the offices of the Quarter Master General and Adjutant-General's Departments at Rangoon.

From Government of Madras, Military Department, No. 2290, dated 12th April 1886, and enclosures.

(Return requested.)

2. The Government of India consider that it would be advisable to concentrate not only these offices in one building, but also, if feasible, that the Medical, Commissariat and Transport Offices should be brought under the same roof. I am accordingly to ask that the Government of India may receive a report, prepared after consultation with the local military authorities, showing how in your opinion this may be most economically effected. The report should be accompanied by a rough plan and approximate estimate of cost of your proposals.

3. I am to add that at one station in Bengal the concentration of the offices at divisional head-quarters has been conveniently arranged for by inducing a local capitalist to provide the necessary building on a guarantee that it would be taken at a fixed rent for a number of years.

No. 653-M.W.

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

(By Order.)

SIMLA, *5th May* 1886. (Signed) J. E. BROADBENT, Capt., R.E., *Asst. Secy. to the Govt. of India.*

No. . ORDER THEREON, 22 May 1886, No. 3112

Ordered that the foregoing letter from the Government of India be communicated to His Excellency the Commander-in-Chief.

(True Extract.)

A Kennedy Herbert Lt.-Col.,
Secretary to Government.

To the Quarter Master General.
" Controller of Military Accounts.
" Public Works Department, for information.

Exd. E. C. Shunker.

Pkt. 4052

Govt. of {1886} Madras.

MILITARY.

No. 1425 W. dj 4th June 1886

Communicated

Communicated to Supdg. Engrs. for information

26.5.86

To

THE QUARTER MASTER GENERAL,
&c., &c., &c.

5 & C

25 MAY 86
WAR DEPARTMENT

Dated May,

Issued

Recd. 28/5/86. *Encl.*

G.O., 22nd May 1886, No. 3112

B. No. 1425 W. dj 4th June 1886.

MAY.

Nos.

S.
4.6.86

11/5/6

Supdg. Engrs.

Dested
5/6/86

Qrs. 107/5. D.C. 7/6.

Quarters—Office.

Rangoon.—Correspondence from the Government of India regarding the concentration in one building of the Offices of the Quarter Master General and Adjutant-General's Departments, also, if feasible, the Medical, Commissariat and Transport Offices, at —, communicated to His Excellency the Commander-in-Chief.

2 copies books

Worthington