

to furnished to the
Superintending Engineer
V Circle

Col.

15-8-84

19.6.84

No 2063 W dated 15/8/84

To

The Suply. Eng^r V Circle
with coverd 1205/84

Cu 15/8/84 1205/84

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1205/84 1205/84

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

5th July 1878, No. 2,755 W.

Buildings and Roads.
Military Works.

Read the following paper:—

No. 45. From Colonel F. J. MOBERLY, R.E., District Engineer, Bangalore, to the Chief Engineer, Public Works Department, dated Bangalore, 27th June 1878, No. 71.

I HAVE the honor to forward, herewith, for your information, copy of a letter, No. 270, dated 15th instant, from the Assistant Quartermaster-General, Mysore Division, stating that the work "lining with stone drains east and west of European Infantry Barrack limits" might be postponed for the present.

From Captain D. J. S. McLEOD, Assistant Quartermaster-General, Mysore Division, to the District Engineer, Bangalore, dated Bangalore, 15th June 1878, No. 270.

I HAVE the honor to inform you that in forwarding the estimate, as per margin, received with your letter, No. 92, of 3rd instant, for the Rupees 1,538 for lining with stones the drains east and west of European Infantry Barracks. approval of His Excellency the Commander-in-Chief, the Lieutenant-General offered his opinion that the work might well be postponed at present in favor of other works more urgently required.

2. His Excellency the Commander-in-Chief has approved the plan and estimate, which is herewith returned, but agrees with the Lieutenant-General regarding the advisability of postponing its execution in favor of other more important works.

No. 46.

ORDER THEREON, 5th July 1878, No. 2,755 W.

ORDERED to be recorded.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the District Engineer, Bangalore.

„ Examiner of Public Works Accounts.
„ Military Department.

Exd. A. F. Goodall.
Spare Copies

24.8.49/8. Civ. 12/8. 22/8

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1878) Madras.
PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
BANGALORE,
&c., &c., &c.

Dated July 5th.

Issued

Recd.

Encl.

G. O., 5th July 1878, No. 2,755 W.

JULY.

Nos. 45-46.

European Infantry Barracks, Bangalore.—
Letter from the District Engineer intimating
that the work of lining with stones the
drains east and west of the — may be post-
poned, recorded.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

10th April 1878, No. 1,777 W.

Buildings and Roads.
Military Works.

Read the following paper:—

No. 115. Endorsement of the Military Department, dated 2nd April 1878,
No. 1,689.

From Brigadier-General H. O'CONNELL, Quartermaster-General, to the Secretary to
Government, Military Department, dated Fort St. George, 29th March
1878, No. 2,328.

With reference to Proceedings, Madras Government, No. 1,524, dated 25th
instant,* communicating to His Excel-
lency the Commander-in-Chief the orders
passed on the Imperial Budget Estimate
(Buildings and Roads Branch) for 1878-79, I have the honor, by order, to observe
that one of the works not struck out of the schedule published in Proceedings, Madras
Government, No. 5,682, dated 10th
October 1877,† is a plunge-bath for the
Cavalry at Bangalore (Item 23, estimate
Rupees 5,300).

2. As the British Cavalry at Bangalore has already one plunge-bath, His
Excellency the Commander-in-Chief thinks that the construction of a second may be
postponed, the grant of Rupees 5,300 being reserved for any other important work
that may be required out of the many that have been struck out of the schedule, or
that may during the year be found necessary.

TRANSFERRED to the Public Works Department.

(By order.)

(Signed) J. MICHAEL, Colonel,
Secy. to Govt., Mily. Dept.

No. 116. ORDER THEREON, 10th April 1878, No. 1,777 W.

THE sum of Rupees 5,300, appropriated in the Imperial Budget of 1878-79 for
a plunge-bath for the Cavalry at Bangalore, is credited to the Reserve at the disposal
of Government under Military.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Bangalore.

„ Examiner of Public Works Accounts.
„ Military Department.

Exd. E. C. Shunker.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1878) Madras
PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
BANGALORE,
&c., &c., &c.

Dated April 10th.

Issued

Recd.

Encl.

G. O., 10th April 1878, No. 1777 W.

APRIL

Nos. 115-116.

Plunge-bath for the Cavalry at Bangalore.
—The appropriation of Rupees 5,300 for
— credited to Reserve at the disposal of
Government under Military.

13TH MAY 1884, No. 1205 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Major J. L. L. MORANT, R.E., Officiating Consulting Architect to the Government of Madras, to the Chief Engineer, Public Works Department, dated Chepâk, 11th December 1883, No. 1217.

In reply to Public Works Order No. 3257 W., dated 16th November 1883, I have the honor to submit plans and an estimate (the latter, amounting to Rs. 10,078) for a clock tower with two dials 5 feet in diameter.

1 Tracing.
1 Specification and detailed estimate.
1 Duplicate abstract.

2. I sent a tracing of the upper portion of the design to N. R. Pogson, Esq., C.I.E., Government Astronomer. He replied thus—

“The tower is not intended for one clock with two faces, but for two separate and distinct clocks, both kept going synchronously with each other, with one at the Central Station and one at the Marine Office, all under electrical control of the observatory mean time regulator. As many other clocks may in the future be included in the same electrical circuit as Government may be disposed to pay for, a telegraph line from the observatory to the clock tower will have to be set up and kept in continual efficient order, and from the clock tower it will also have to be carried on to the Central Railway Station to join the Marine line in use since June 1879. If new posts were required throughout, the cost of construction would be Rs. 400 per mile, but if existing posts can be utilized it will be much less; information upon which point must be obtained from the Superintendent of Government Telegraphs (P. V. Luke, Esq., C.I.E.).

“The clocks will also require to be changed in several ways; chiefly their dials from 3 to 5 feet in diameter, besides new hands, counterpoises, contact screws, &c., all which it is intended to have done at the Arkónam Telegraph Workshops of the Madras Railway Company and for this I must request permission of the Agent and Manager, Mr. Saunders.

“While you are arranging for the Mount Road structure it will, I think, be better for me to address Government with definite proposals for all else requisite to complete the scheme in its entirety, and I propose to do so at once, so as to have all ready immediately you can report the tower ready for occupation by the two clocks it is to contain.”

3. The estimate now submitted is for the structure only. Mr. Pogson's estimate will, I believe, amount to some Rs. 2,000.

4. The design now submitted is 54 feet high from ground level to centre of clock face. The bottom buttressed portion is proposed to be of cut-stone with brick showing here and there. The rest of the tower will be of the very best brickwork moulded and pressed except the two horizontal carved cornices and pillars and pillarets which will be, some of stone and some of marble. Terracotta and encaustic tiling will be used in certain parts. The balcony balustrades will be of terracotta. The pillars round the clock and the dentil moulding will be of marble, and the surfaces around the clock faces will be of diaper work made of stone, terracotta, or moulded bricks as may be found most convenient. The roof will be tiled. The lower carved cornice is very roughly indicated. It is intended to be formed of carved foliage flowers and fruit.

No. 2561 C., Public Works.

Forwarded, through the Financial Department, to the President, Madras Municipal Commission, for favor of information whether the Municipality will be prepared to contribute a moiety of the cost of the proposed clock tower on the Mount Road.

2. It will be seen that the tower alone is estimated to cost Rs. 10,078, and that the further work of establishing electrical connection with the observatory and altering the clocks to suit the tower, will cost about Rs. 2,000 more, say, Rs. 12,000 in all.

(By Order.)

CHEPÂK,
19th December 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Financial Department (with papers in original to be returned).

From A. T. ARUNDEL, Esq., President, Municipal Commission, to the Chief Secretary to Government, dated Madras, 26th February 1884, P.W.C. No. 208.

Referring to G.O., No. 2518, dated—, on reference No. 4149 of 1883, I have the honor to state that the Commissioners are not prepared to pay a moiety of the cost of erecting the electric clock tower in the Mount Road, but that they will make an allotment of Rs. 2,000 towards the object in view.

2. The papers that accompanied the reference are herewith returned.

No. 454, Financial.

Forwarded to the Public Works Department.

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

20th February 1884.

G.O., dated 15th April 1884, Mis. No. 795, Financial.

From A. T. ARUNDEL, Esq., President, Municipal Commission, to the Chief Secretary to Government, dated Madras, 28th March 1884, P.W.C. No. 345.

Referring to my letter, No. 208, dated 26th February, I have the honor to inform you that the Commissioners, by a majority of one, at a general meeting on the 26th instant, have declined to confirm the allotment of Rs. 2,000 towards the erection of the electric clock tower in the Mount Road.

Order—dated 15th April 1884, Mis. No. 795, Financial.

Forwarded to the Public Works Department, in continuation of endorsement, No. 454, dated 29th February 1884.

(True Extract.)

(Signed) J. D. REES,
Acting Under Secretary.

To the Public Works Department.

ORDER—dated 13th May 1884, No. 1205 W., Public Works.

The Madras Municipal Commissioners having declined to contribute any portion of the cost of erecting a tower on the Mount Road, in which to place the two sympathetic electric clocks now available at the observatory, His Excellency the Governor in Council directs that the proposal be abandoned.

2. The Consulting Architect will, in communication with the Government Astronomer and the Telegraph Department, frame estimates for placing one of the clocks inside the large hall of the new Post office, and the other outside the Public Works offices at Chapâk. These estimates should be submitted as soon as possible.

(True Extract.)

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

To the Consulting Architect to Government, with four enclosures.

„ Financial Department.
„ Public Department.
„ Chief Superintendent of Telegraphs, Madras Division.

Exd. A. Aubert,
Spars Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1884 Madras.

PUBLIC WORKS.

Dated May, 13th.

Recd.

Encl.

G.O., 13th May 1884, No. 1205 W.

MAY.

Electric Clocks

The proposal to build a tower on the Mount Road, Madras, in which to place the two — available at the observatory abandoned, and estimates called for for placing one of them inside the new Post office, Madras, and the other outside the Public Works offices at Chapâk.

Eight Circle

List of Periodical Returns to accompany the List of Unsubmitted References for the Half year ending 31st March 1884.

Date on which the Return is due.
For what period and when the last Return was submitted.

Authority calling for the Returns.

Subject

G. O. No. 1622 dated 17th June 1894.
P.O. D. Code No. 1160.

Return of Public Buildings

No. 1883 sent on the 2nd June 1884 at Rs. 850.

G.O. No. 8044 dated 15th December 1890.

D.O. No. 261 dated 7th Feb. 1895.

Chief Engineer's Memo No. 1266 dated 13th January 1893.

Statement of Incomplete works requiring Funds.

No. 1884-85 sent on the 16th & 21st May 1884 at Rs. 593 to 598 and 722 and 723.

G.O. No. 2980 dated 10th December 1893.

Grants c/o. Rs. 174 92

G.O. No. 1834 dated 22 July 1883.

Statement of works of public utility completed — by private individuals

No. 1883-84 sent on the 19th April 1884 at Rs. 242.

Lyons

P. & D. Code Para 274.

Administration Report
(Buildings & Roads) By 31st May

for 1883-84 sent
on the 14th June
1884 at 10.68.

G. O. M. 2997 of 12th Decemb. 1873 acquired by Government
Statement of Lands
Sreemut S.

for 1883-84 sent on
the 10th July 1884 at 12
1408

G. O. M. 1060 of 3rd June
1857. Report of a Rev.
= Civil Architect 15th April

for 1883-84 sent on the
19th April 1884
at 12 241.

Mis: M. 129 of 24th February 1874. = oral Remains.

Return of 2nd Class
Warrant Officers
and their families 15th May
requiring passage
to England

for 1884-85
sent on the
17th May 1884
M. 624.

G. O. M. 1841 of
18th July 1873.

Page 1199 Fort. St. George
Gazette dated 22 July 1873.
Estimate of
Stationary 1st June
(Europe & Manufacturing)

for 1886-87 sent
on the 18 June
1884 at 12 1095.

5th June 1883. Part II

Page 1084 Fort. St. George
Gazette dated 15th June 1883.

for 1885-86
sent on the
25th July 1884
at 12 1574.

" 650 " 25 June
1883. Part II
(Country & Manufacturing)

Estimate of
Stationary 1st July.
Budget Estimates
Imperial and
Provincial.

for 1884-85 sent
on the 15th October
1883 at 12 2555,
2556 and 2557.

M. 220888 dated 7th Dec
= calendar 1880.

G. O. M. 373 of 1st March 1864
M. 2374 dated 28 June 1881.

for 1884-85 sent
on the 22nd October
for 1883 at 12 2643
+ 2 644.

Indent for Station.
= reg.

Caution Dep. of G. O. M. 478 of 24th Decem.
= 1881. M. 689 of 1st March 1881.

Return of officers in January
for Vaccular examination July
the Return was sent
on the 23 June 1884
at 12 852.

P. & D. Code Para 292.

Return of Districts. Cancelled by G. O. M. 591 of 24th March 1881

G. O. M. 879 of 6 June 1857.
M. 144 of 23 Sept 1863.

List of Unanswered
References.
15th January
15th July

for the fact of separation
of 1884 sent on the
17th July 1884
at 12 1774 dated
3rd Aug 1884.

P. & D. Code
Para 60 and 281.

for the fact of year 1883
21 Decemb. 1883 sent
on the 14th February
1884 at 12 3786 + 3850
for 1884-85 sent on the
1st August 1884
at 12 1661 + 1662.

Chief Engineer's Memo
M. 660 dated 18th
March 1884

Recommended: 1st February
= Action Roll.
1st August

Copy

Copy

Maundy

C. E. Circular No. 1714
dated 18th Novemb. 1876.

C. E. Circular No. 2362
dated 17th Octob. 1881.

Return of Europe,
-an Hon Com-
-missioned Officers
and men of Royal
Engineers.

Distribution Re-
-turn of Officers
and Subordinates.

25th March
" June
" September
" December

1st April
" July
" October
" January

For the Quarter
ending 30 June
1884 sent on
the 24th June
1884. C. E. 1889.

For the Quarter
ending 30 June
1884 sent on
the 22nd July 1884
C. E. 1297.

The paucity of
8th August 1884

W. E.

To The Chief Engineer
P. O. & Department.

Resubmitted to
Superintendent Engineer
Circular

W. E.

No. 1774

Fifth Circle

List of Orders of Government received up to
31st March 1884, remaining unanswered on the
1st July 1884.

No. Date Subject

Presidency Division.

38 7th January 1873 New third Divi-
-sion Hospital.
Bangalore. ordering the sub-
-mission of plans and es-
-timates for a —

Plan & Estimate
retained in the
Quarter Master
General's Office
in 1873, pending
Receipt of new
Regulations re-
-garding Station
Hospitals.

145 18th September 1874 Second Electrical
Block. Requesting to
report upon the suitability
-ity of the site selected
by the Government for
-astronomer for a —
as well as on a site
for a third block
at the Presidency

Under reference
with the Go-
-vernment
Astronomer.
But a tower
for an elec-
-trical block
is about to be
built on the
Mount Road
by the Gov-
-ernment.
Chitral.

1123 1st May 1877 Traversed round
132 12 June 1877 the Magazines in
the Fort. Requesting to
submit plans & estimates for —
Plan & Estimate
sent for the
approval of
H. Co. the Comd.
— Commander — in
Chief in June
1878, but no
orders received.

8248 1st Oct. 1877 (1) Plunge Path Work postponed
for the Cavalry at Bangalore. Vide G.O. No. 12177
dated 10th April 1878.
(2) Lining with Stone Work post-
poned. Vide
G.O. No. 2555
dated 5th July 1878.
Ordering Sub.
mission of plans and
estimates for —

1596 24 June 1880 Lightning Conductors
within the Division.
Requesting
to examine and
report upon all
the —
Vide letter
No. 3397 of
13th December
1880 from the
Superintendent
of Works Presi-
dency Report
will be sent after
all the Lightning
conductors have
been repaired.

3142 4th Feb. 1881 Light Corrugated iron twisted & cut.
Shed for the Storage = timber in
of straw at the Medis- but the water
= cal Stores, Madras, hose and
and for the supply of fire buckets &c.
water hose and fire have been pro-
buckets &c. vided as
urgently
necessaries.
Calling for estimate
for a —

2242 10th Sep. 1881 Quarters occupied by
the Officer Command- estimate have
= ing the Royal Ar- been prepared,
= tillery in Fort St. but the
George. Military
authorities
consider the
work not
necessary at
present.
Calling for plans
and estimates
for additions of a
third story

1820 14th July 1882 Available building sites
in Madras.
Requesting to report re- In progress
= garding laying out in a
general way the grounds
and roads &c. of —
and suggesting that the
Executive Engineer Presi-
dency will prepare the plans

22197 29 Sept 1882. Stabling outside the Fort.

Requesting to submit a regular estimate for, after the Government of the orders of the Government of India have been received and the estimate will be submitted, removal of the outworks are known.

1993 7 Nov 1882. Asphalithos.

Requesting to report the result of the more extended experiments of the materials of — Result will be reported

2985 13 Nov 1882. 1262 30 April 1883. Stables for Royal Artillery at Bangalore.

Requesting to submit plans & estimates for construction of — Plans & estimates sent to Military authorities for approval

2212 1 Dec 1882. Cemeteries in Madras.

Requesting to report how many more tombs in other — have to be dealt with Report will be made.

3294 13 Dec 1882. Military Prison Bangalore.

Requesting to send a plan and estimate for 10 additional cells to the — This item will be omitted in the next Return

895 19 May 1883. Madras Lunatic Asylum.

Ordering the submission of plans & estimates for building quarters for certain employees in the — This item will be omitted in the next Return

1201 21 April 1883. Stationary Depot Madras.

Calling for plans & estimates for additional accommodation for the — Plans & estimates forwarded in G.O. No. 695 dated 14 May 1884. This item will be omitted in the next Return.

2743 1 Oct 1883. Mule Lines on the Madras Beach.

Directing the Superintending Engineer to submit a revised estimate for providing drying troughs and washing stands for the — In G.O. No. 1261 dated 17 May 1884, fresh mule lines are proposed to be provided on the beach. A plan & estimate have been prepared and will be submitted without delay.

Chingleput Division

2631 N 4th Augt.
1879

Vayasarpandy Drain-
age Project.

Requesting to report
on the necessity of con-
-structing a weir at
Cochran's Canal and
to afford explanation
as to the necessity of Ru-
-pees 5669 and 186 re-
-quired for strengthening
west bank of the canal
and for metalling certain
Road Slopes respectively
in connection with the

The drainage &
strengthening
of West bank
are now part
of the estimated
improvements
to the Backing-
ham Canal.

4445 24 Octob.
1879

Western Bank of the
Cochran's Canal into a
Road to connect Kinnelore
Road with the Sewage Farm.

Referring for remarks and ex-
planation under item on G.O.
No. 2056 of 21st Octob. 1879 Com-
-municating letter from the Muni-
-cipal Commission Madras
No. 8309 dated 17th Octob. 1879 on the
expenditure of Rs. 34842 incurred
by the Municipality in
making the

With the
Executive En-
gineers.

559 6th August
1882

Rules &c of the proposed

Upper Subordinate President G.O. No. 319 N dated
7th February 1884
and widows & Orphan
Fund brought forward in 1879. This item will
be omitted in
the next Re-
turn.

Requesting to obtain
from Hon^{ble} Secretary Mr. J. D.
Ellis a second copy of—

1963 16th Octob.
1883

Stables for two Field
Batteries of R.A.
at St. Thomas Mount.

Requesting to report
after completion of the
sanctioned in G.O. No. 2747 N
dated 1st Octob. 1883, the lowest
resulting rate per horse.

Will be
attended to

South Arcot Division

1306 N 21 May
1881

Port of Cuddalore. Work deferred by
Requesting to be by G.O. No. 2422 N
Submitted Requisite estimates dated 18th Septem-
ber 1882.
for improvements to the

2986H 22 Oct
1883 Sub Registry Office

Sub Registry Office
 Calling for an estimate
 for constructing a — at
 Villupuram South Arcot
 District.

Estomac in
preparation
by the Ex=
cretion of
ginseng.

35247 y. De
cemb
1883

Sub Registrars Office

Directing the Super-
=intending Engineer & Civil
to Submit the requisite ex-
=timate for the construction
of a — at Sindivannam

20

N^o 2063 is dated 22nd August 1891

Andrew L. S. d. 2
 J. A. P. E.

Superintg Engr
5th Cirale

L

The Chief Engineer.

P. W. Department

252 W. 2/2/80.

B No 283 W 2. 2. 84
G. C. No 1205 W 13-5. 84

$R_1 15.8 \pm .85$ $R_2 7.1 \pm .85$

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 22. August/84

READ the following

From the Supp. Eng^d. V. note No. 1774. dated 8th August/81.

Recon de B.

2. The following calls may be omitted from future returns:-

G. O. No. 145 dated 18.th Sept 1874

o. H^o 145
" " 67 Dec^r 1875

G.O. 8^o 3294 W dated 13th Dec^r/82

" 895 W. dated 19th March/83

120116 dated 21st April/83

41: 559 E dated 9.th August /82.

3. A copy of G. O. N. 2050
dated 13th May 1882, showing
that the question relating
to electric clocks has
been disposed of, will
be