

- (1) பக்கங்களின் எண்ணிக்கை 18
 (2) புதுக்கித் திருப்பிய நாள் 7/88
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் [Signature]

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

[Signature] துறை

அரசாணை எண்.	<u>2538</u>	அச்சகம்
மு. கோப்புத் தாள் எண்.	<u>2538</u>	பிலவகை
	<u>a</u>	
நாள் :	<u>18-8-1888</u>	1988

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

A. Mani

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers:—

From Colonel M. PROTHEROE, C.B., C.S.I., Officiating Quartermaster-General,
to the Secretary to Government, Military Department, dated Ootacamund,
26th July 1888, No. 2663-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. 4,770, for providing lightning conductors to the barracks and hospital at Malapuram, with report, specification and plan.

2. The Commander-in-Chief considers that this estimate should be considered as supplemental to the general estimate for new barracks at that station.

No. 5159, Military.

Approved and transferred to the Public Works Department for disposal.

OOTACAMUND, (Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
27th July 1888. Secretary to Government.

Note by the Chief Engineer, Public Works Department.

The estimate, amounting to Rs. 4,770, for providing lightning conductors to the barracks and hospital at Malapuram, is submitted for the sanction of Government with the following remarks:—

- (1) The terminals should be constructed in accordance with para. (m) of the instructions printed with G.O. No. 845 W., dated 14th March 1888.
- (2) The Superintending Engineer will consider whether any reduction can be made in the item "teak-wood blocks."

14th August 1888.

(Signed) J. O. HASTED, Colonel, R.E.,
Chief Engineer, P.W.D.

Order—dated 18th August 1888, No. 2538 W., Public Works.

The estimate, amounting to Rs. 4,770, for providing lightning conductors to the barracks and hospital at Malapuram, is sanctioned as supplemental to the general estimate for the barracks at that station. The total sanction for the barracks will now stand at Rs. 1,88,712.

2. Attention is drawn to the Note by the Chief Engineer, Public Works Department, above recorded.

3. This sanction has been registered as Imperial, Ordinary, No. 31 W. of 1888-89, and classified as Military, Original Works.

4. Ordered that a copy of these Proceedings be forwarded to the Government of India, Military Department, for information.

(Here enter No. $\frac{2538}{A}$ W., dated 18th August 1888.)

(True Extract.)

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

To the Superintending Engineer, IV Circle, with five enclosures.

„ Examiner of Public Works Accounts,

„ with the duplicate general abstract estimate.

„ Military Department.

ENDORSEMENT—dated 18th August 1888, No. $\frac{2538}{A}$ W., Public Works.

Forwarded.

Colonel, R.E.,
Secretary to Government, P.W.D.

Ed. F. R. Bantleman.
Spare Copies

25/8
2

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of Madras.
PUBLIC WORKS.

Dated August, 18th.

Recd.

Encl.

G.O., 18th Aug. 1888, No. 2538 W.
A

AUGUST.

Barracks and Hospital at
Malapuram

Forwarding copy of Proceedings sanction-
ing a supplemental estimate for providing
lightning conductors to the —

No. 2663-A.

From

Col. M. Protheroe, C.B. C.I.
Offg. Quarter Master General.

To

The Secretary to Government,
Military Department.

Sir,

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. 4770/- for
providing Lightning Conductors to the Barracks
and Hospital at Malapuram, with Report,
Specification and Plan.

The Commander in Chief considers
that this estimate should be considered as sup-
plemental to the general estimate for new
Barracks at that station.

I have the honor to be,

Sir,

Your obed^t. servant,

M. Protheroe Colonel,

Offg. Quarter Master Genl.

4.6.845 N. 14.3.88
" 1191 N. 21.5.88
B. No 3223 N. 25.11.87
" 3049 N. 11.11.87
" 2193 N. 18.7.88

Truly { 1888 } Dept.

No. 5575

From M. C. W. 7529

The offg. Q. m. Genl.

To

The Secy to Govt
m. d.

Dated 26. }
Recd 27 } July

Recd 27-88
No. 2563 A.

Encls. 7
Subject.

Forwards for sanction to

Estimate for providing
Lightning Conductors to the
Bns. and Hspl. at Mala-
puram.

No. 5759 Approved
and transferred to
the Public Works Dept
for disposal

A. K. S. Herbert B. J. S.

Secretary to Government.

Estimate
27. July 88

156
11/5/88
11/30/88

11/30/88
Resubmitted to 13-8-88

2538
310

Note by the Chief Engineer R. H. D.

The estimate amounting to
Rs. 4,770, for providing lightning conductors
to the barracks and hospital at
Malahapuram is submitted for the
sanction of Govt. with the following
remarks.

(1) The terminals should be
constructed in accordance with para
(m) of the instructions printed with
G. O. No. 845 N dated 14. March 1888.

(2) The Dy. Engineer will
consider whether any reduction can
be made in the item "Teak wood
bolts."

11.5.88

14/6/88

R. H. D.

Current No. 7529
 Letter No. 5159
 Dated 27th July 1888
 From the Secy to Govt. Mdy. Dept.

NOTE OF REMARKS.

The estimate under
 review amounting
 to Rs 4,740 provided
 for lighting con-
 ductors to the Bazaar
 and Hospital at
 Malapuram in the
 Malabar dist.:-

The estimate is
 divided as follows
 Bazaar No. 1 - Rs 840
 " " 2 - " 1120
 " " 3 - " 1180
 Hospital " 850
 Well " 750

Total Rs 4740

It is explained in
 the report accompa-
 nying the estimate
 that the work on
 No 2 Bazaar work
 struck by lightning
 in the month of

October 1884 in consequence
of which applications
were made by the
Military Authorities
to have the lofted
buildings protected
by Lightning Conductors.

The proposed conductors
are to be entirely of
Copper, the copper tape
along the ridge ^{of} the
roof and that
running along the
walls to the ground
are to be $1" \times \frac{1}{8}"$ to be
connected with an
Earth conductor $1\frac{1}{2}" \times \frac{1}{8}"$
and then with an
Earth plate $3' \times 3' \times \frac{1}{8}"$.
The copper rods for
terminals are to be
1" in diameter.

These dimensions are
in accordance with
those given in G.O. 846
of 14th March 1888 with
one exception viz the
size of the Earth plate
which is twice the thickness
allowed in the G.O.
under reference.

25/7 The dimensions allowed
in the Estimate for
the Earth plate will
 $3' \times 3' \times \frac{1}{8}"$ those allowed
in the G.O. are $3' \times 3' \times \frac{1}{16}"$.
It seems rather an advantage
to have the plate $\frac{1}{8}"$ in
thickness as it would
wear better and
consequently not
require renewal
for a much longer
period than a $\frac{1}{16}"$ plate.

The Copper terminals
are to be fixed into
brick blocks and
these blocks are to
cost Rs 10 each or
Rs 210 for the 21 blocks.
The charge seems high.

Rs 750 is provided
in the Estimate
for sinking a well
for the conductors
but the details are
not given in the
Estimate.

11/16

11.5.00 11/11
2 78/8

Contingencies under
Superintendence are
charged for at 5 per
cent each -

The estimate is
sanctioned by
the Military Authorities
and approved by
Govt. in the Military
Dept.:-

amf

8/8/88

The arrangement of
deep & shallow cuttings
is a new one, but it is
laid down in the "Instructions"
referred to in G.O. 545 W of
14th March 1888.

The item for tooth blades
appears high; but there is
a good deal of fitting & repair.
The Est. may be sanctioned
with the following note by
C.M.

The terminals should be
constructed in accordance with
para 9m of the Instructions
provided with G.O. 545 W of 14th March 1888.
The Est. will consider whether
any reduction can be made
in the item "Tooth wood blocks"

under reference

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

From the Quarter Master General. H. E. No. 2663 A of 26th July 1888
Endorsement by the Military Dept. H. E. No. 5159 of 27th July 1888
Note by the Chief Engineer P. W. Department of 14th 8.88.

The estimate amounting to
Rs. 770, for providing lightning conductors
to the barracks and hospital at Mala-
puram, is sanctioned as supplemental
to the general estimate for the barracks
at that station. The total sanction for
the barracks will now stand at Rs. 188,712.

2. Attention is drawn to the note
by the Chief Engineer, P. W. Department
above recorded.

3. This sanction has been regis-
tered as Imperial Ordinary No. 31 W of
1888-89, and classified as Military
Original Works.

4. Ordered that a copy of these
Proceedings be forwarded to the Secy. of India,
Military Department for information.

H. E. No. 31 W of
Forwarded.

The Deputy Quarter Master General.
Examiner of P. W. Estimate with the
duplicate general abstract estimate
Military Department.

11.5.88

10/5/88

Govt. of Madras.

PUBLIC WORKS.

1000

2/12

Date

Recd.

Encl.

G.O. 18th Aug 1888, No 2539W
2538 W.

Barracks and Hospital
at Malapuram

Supplemental
estimate for providing lighting
conductors to the
Sanctuary.

Barracks and Hospital
at Malapuram

Forwarding copy of pro-
ceeding sanctioning a
supplemental estimate for
providing lighting conductors
to the

95/0

12/20/8