

(1) Number of pages 20
(2) Date of repair June 1987
(3) Initials of the Referencer bus

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No.	19 W	Press.
B.P. No.		Mis.
Dated	8-1-1984	198

(Signature)

Not to be folded or roughly handled.

19
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads,
Civil Works.

READ—the following papers:—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 20th November 1883, No. 529 W.

With reference to your memorandum, No. 540 C., of 6th March 1883, I have the honor to forward, for sanction, a revised plan and estimate of Rs. 2,005 with a report, specification, and comparative statement for fixing lightning conductors to the district court at Mangalore.

2. This estimate has been prepared in accordance with appendix A to the standard specification, and the points alluded to in the above memorandum have been attended to.

3. An estimate of Rs. 575 was sanctioned in G.O., No. 2937 W., of 20th July 1878, but not carried out as no funds were then available.

4. The causes of excess over the original estimate are explained in the comparative statement, and the plan and estimate have been countersigned by the District Judge.

From J. P. DAVIDSON, Esq., Executive Engineer, Coimbatore Division, to the Superintending Engineer, IV Circle, dated Coimbatore, 13th December 1883, No. 1774.

In returning the plan of lightning conductor for Mangalore court-house, forwarded with your No. 804 C.I., dated

1 Plan.	1 Report.	warded with your No. 804 C.I., dated
1 Revised estimate with	1 Specification.	12th December 1883, I have the honor
1 comparative state-	1 Detail estimate.	to state that the rules for "space pro-
ment.		ected" as given in appendix A are to

radius of the base of the protected cone is equal to the height of the apex of the terminal above the ground.

2. If three circles be drawn on the plan, with each terminal as a centre and the height of the apex of the terminal above the ground as radius, it will be seen that all but a small portion of the porch falls within the three circles, or very nearly so.

3. I did not consider it necessary to increase the height of the terminals so as to include the porch in the protected space. The increased height of the uprights in this case would make them difficult of support.

No. 575.

Endorsement on the above.

Forwarded to the Chief Engineer, Public Works Department, for information with reference to his memorandum, No. 2395 C., of 3rd instant.

15th December 1883.

(Signed) J. BEATTY, Colonel, R.E.,
Superintending Engineer, IV Circle.

ORDER—dated 8th January 1884, No. 19 W., Public Works.

The estimate, amounting to Rs. 2,005, for fixing lightning conductors to the district court-house at Mangalore, is sanctioned.

2. The requisite appropriation of funds will be made on the Superintending Engineer reporting the amount required for expenditure during the current official year.

3. This sanction has been registered as Provincial No. 190 W. of 1883-84 and classified as Civil Buildings, Original Works.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

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

„ Examiner, Public Works Accounts.

„ Judicial Department.

Exd. E. Fernandez.
Spare Copies

19/2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1884) Madras.

PUBLIC WORKS.

Dated January, 8th.

Recd.

Encl.

G.O., 8th Jan. 1884, No. 19 W.

JANUARY.

District Court-house at Man-
galore

Estimate, amounting to Rs. 2,005, for
fixing lightning conductors to the —, sanc-
tioned.

Supr. ENGINEER'S OFFICE 4TH CIRCLE,

Coimbatore 20th Nov 1883,

No. 529
W.

From,

The Superintending Engineer,

Fourth Circle.

To,

The Chief Engineer

P.W. Department

Enclosures. 3.

Sir,

1. Plan
1. Estimate complete
1. Comparative Statement

With reference to your Memo of 5th of 6th March 1884, I have the honor to forward for sanction a Revised plan and estimate of Rs 2005 with a report, Specification and Comparative Statement for Fixing Lightning Conductors to the District Court at Mangalore.

2. This estimate has been prepared in accordance with Appendix A to the Standard Specification, and the points alluded to in the above Memo have been attended to.

3. An estimate of Rs 575 was sanctioned

Sanctioned in G.O. 2937 W of 20th
July 1878 but not carried out as no
funds were then available.

4. The causes of excess over the
original estimate are explained in
the Comparative Statement; and
the plan and estimate have been
countersigned by the District Judge.

I have the honor to be
Sir

Your Most Obedt. Servt.

J. Beatty - Col. R.E.

Supg. Engr. - Circle

J

19/4

From

The Supt. Engineer
1st Circle

Dated 20th } November 1883.
Received }

No. 529
Enclosures 3

Fixing Lightning
Conductor to the District
Court at Mangalore—

Forwards for sanction
a revised Plan and esti-
-mate with comparative
Statement.

No: 1774 Executive Engineer's office
Comblalou 13th December 1883.

From.

The Executive Engineer
Comblalou Division

To.

The Superintending Engineer
1st Circle

Sir,

Enclosures

1. Plan.
1. Revised esti-
-mate with
1 comparative
Statement
1. Report.
1. Specification
1. Detailed estimate

In returning the plan of
Lightning Conductor for Mangalore
Court House forwarded with your
No: 804^{C.S.} dated 12th December 1883 I
have the honor to state that the rules
for "space protected" as given in ap-
pendix A are to be found at page
12; the rule is that the radius of the
base of the protected cone is equal to
the height of the apex of the terminal
above the ground.

2. If three circles be drawn on
the plan, with each terminal as a
centre and the height of the apex
of

of the terminal above the ground as radius, it will be seen that all but a small portion of the porch falls within the three circles, or very nearly so.

3. I did not consider it necessary to increase the height of the terminals so as to include the porch in the protected space. The increased height of the uprights in this case would make them difficult of support.

I have the honor to be

Sir

Your most obedient servant

R Davidson

Executive Engineer

No 575

Forwarded to the Chief Engineer
P.W.D. for information with
reference to his memorandum
No 2395 C of 31st inst

R Davidson

Sub-Engineer

19
5 A

From.
The Executive Engineer
Coimbatore D?



No. 1774
Dated 13th December/83

Enclosures 6.

Fixing lightning
conductors to District
Court House, Mangalore.
Returns Plan and
Estimate Rs 2005 for
with report.

For favor of orders

The E. E. is away in his
interpretation of rule regarding
"space protected". A large part
of the roof is unprotected & more
poles are clearly required. There
has been no difficulty about
increasing height of terminals, as
more terminals would meet the
case. However S. E. accepts the
E. E.'s explanation after his
attention was specially called to
the arrangement, so I presume this
office need do no more.
Draft sanction for W.S. approval.

Cet.
19/12

Public Works Department, 1883-84

Current No. 1295
Letter No. 575
Dated the 5th Dec 1883
From the Sub. Engr. E. E. Mangalore

10/12

NOTE OF REMARKS.

1. The plan and estimate for
attaching lightning conduc-
tors to the District Court House
at Mangalore, South Canara,
are resubmitted with reference
to P.W.D. Memo. 23956 of the 3rd Dec/83.
The plan and estimate remain
unchanged. The amount of
the estimate is Rs. 2,005.
2. The Ex. Engr. in his correspon-
-dence endeavours to prove
that by the system of erection
of lightning conductors proposed
in the present instance, the
building comes within the
'space protected' as defined
in appendix A. From the Ex.
Engr's application of the rule
on the subject of 'space pro-
-tected' it may well be inferred
that in his reading of the
rule, if the base of a building
be within the circle of protection

The bases of cones having for their apices the terminals of lightning conductors, the building is safe - as if the flooring were the only part to be guarded against lightning. These parts of the superstructure and roofing where the cones, described under the conditions laid down in appendix A, are ignored in the proposed design - this may readily be seen by a reference to the elevation of the building, where the bounding side lines of cones are drawn in pencil showing the spaces unprotected. Subject to approval, the present design must be altered, by increasing the number of terminals appears the most convenient means, to render it correct.

19th Dec/83
RST

C. No. 11295.

P. W. Secretariat.

Note by Budget Section.

19/8

Work

Fixing lightning conductors to the District Court House at Mangalore -

Remarks and References.

Fund	Provincial		
Service Head	Civil Buildings		
Departmental Head	Original Works		
Amount of Estimate	Revised	Rs.	2005
Expenditure in previous year	...	"	"
Allotment in current year	...	"	"
Balance required to complete	...	"	2005
Total Rs.	<u>2005</u>		

Note of available funds.

On Supy Mgr. intimating the amount likely to be expended in current an appropriation of funds can be made.

19/12

Budget Clerk

1921

Note by Budget Section.

19
6

No 2395-C. 3.12.83
540C. 6.8.83
2011C. 9.11.82
487C. 26.2.83
5029370. 20.7.78

From P.W. Engr. 11245
The Supg. Engineer
4th Circle.

Dated 15th
A.D. 18 } December 1883.

No. 575

Enclosures - 6.

District Court House
Mangalore. Towards
Plan and Estimate
with report for fixing
Lightning Conductors
to the -

No 19 x

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 8th January 1894
Read the following

From the S.E. Fourth Circle No. 529 of 20th November 1883
" " " " " 575 of 15th Decr 1883.

4

The estimate
amounting to Rs 2005,
for fixing lightning
conductors to the
District Court House
at Mangalore, is
sanctioned.

2. The requisite ap-
propriation of funds
will be made on
the Supply Est. reporting
the amount required
for expenditure during
the current financial year
This

3. This auction has
been registered as Prove
No 190W of 1883-84, &
classified as Civil
Buildings, Original
Works.

cu 22/12 118
7-1-84

2C.
A. No. 45 & W. 20-2-84

7-83/84
13 Among
11 9-1-81

S. S. Fourth Circle, with 6 circles
Ear Pro. acct
Judicial Depart

118
11

19/10 5

11225

Govt. of Madras

PUBLIC WORKS

Dated

(10)

(11)

Ref

Encl

11. 11. 1884 No. 1945

Dist. Court House
at Mangalore

Estimate to Rs. 2000,
for fixing lightning
conductors to the
— Suctioned.

5/11

490

11/11

Subd. Dist. Supt.