

- (1) Number of pages _____
- (2) Date of repair _____
- (3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2526	(w) Press
-B.P.-No.		Mis.
Dated	7.9.	1875.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
7th September 1875.*

No. 86. Read the following letter from T. D. HARRIS, Esq., Officiating District Engineer, Malabar, to Major A. deC SCOTT, R.E., Under Secretary to Government, Public Works Department, dated Camp at Cannanore, 23rd August 1875, No. 82 —

With reference to your memorandum, No. 142, dated 30th June last, I have the honor to forward an estimate, amounting to Rupees 1,600, for giving lightning conductors to the Jail buildings at Cannanore, together with a plan showing the position where the conductors are placed. I have been obliged to use more rod than you allowed in your rough estimate in order to secure the conductor perfectly against displacement by storms, in all other respects I have adhered to your instructions, and I quite agree with you that the buildings you select to protect are all that is necessary. The tower is already admirably protected both by copper bonds and rods to earth, but in making out the estimate I have had to allow for Cutch stone, for excavation, and labor, carriage of materials, &c, and, all things considered, I think the rates are as low as I can make them, the copper strips having arrived, I have put the work in hand and will soon complete it, trusting the plan and estimate may meet with your approval

No. 87. ORDER THEREON, 7th September 1875, No. 2,526.

CIVIL WORKS, No. 6

The estimate is sanctioned. The question of providing funds will be considered when the replies of District Engineers to the reference made to them under G. O., No. 2,309, dated 9th August are received

(True Extract)

(Signed) G. W. WALKER, Major-General, R.E.,

Secretary to Government

To the District Engineer, Malabar ✓
" Controller of Public Works Accounts ✓
" Judicial Department ✓

Exd S T Austin.
Spare Copies

Specification to accompany Estimate
for giving Lightning Conductors to the build-
ing occupied by the Customs at the Central
Jail.

Amount of Estimate Rs. 1600.

The Conductor to consist of a strip
of copper 2" wide and 23 B W G in thickness
nailed to the ridge beam and passing through
the gables from end to end of the building.

The Conductor from these strips to the
ground will be formed of a Copper rod
one inch in diameter $3\frac{1}{2}$ + roof running
down through 2 patch stones secured in
cement in the wall, as per plan 4 feet
below roof, from thence the Copper strips
will run to earth nailed to the walls to
ground into which it will be let for a
length of 2 feet from the building. then
a chain of iron 1 inch links to be con-
nected with the strip to a length of
15 feet passing the chain in earth filled
with bakers ash or powdered charcoal.

The Copper strips will be nailed to
the ridge beam with Copper tacks about
an inch long & 2 feet apart and to the
outside of the walls with Copper nails
2 inches long and about 1 foot apart.

Care must be taken that the rods
are in connection with the Copper strips.

running along the ridge beam
 after using 188 Rft of Copper rod
 from 255 already purchased the differ-
 ence will be utilized for Conductors to
 earth for the ends of one building

J. D. Davis

Camaguey
 23 August 1875
 Dist. Engineer Mal.
 for the Range Office

Ms 5424/75

Malabar District Office
 Camaguey 23 Aug 75
J. D. Davis

W. District Engineer Malabar

26 Sept 75
 in B. N. 86

26 Sept 75

Provisional
 Civil buildings
 Original

Ms 5424/75

Estimate and Specification
 report for giving light
 Conductors to the buildings
 occupied by the Carrots
 at the Cantal jail
 Camaguey

I have had to allow for Cutch
Stone, for excavation, and labour,
carriage of materials, &c. and
all things considered, I think
the rates are as low as I can
make them, the copper strips
having arrived I have put
the work in hand and will
soon complete it, trusting
the plan and estimate
may meet with your approval.

I have the honor to be
Sir,

Your most obed^t servant

D. Harris
Offg. District Engineer
Malabar

5/

is in the in

W.

Feb 7
in the abstract estimate
5 sc Month 20-9-7

110 15th Aug 1775 No 331-333
 " 2 June 1775 No 872 Just M^{ts}
 " 9 Aug 1775 No 172 173
 170 16.80 (Pheno. No 83 of 27/7/74)
 Phenothⁿ 76.7762 of 59.6 Oct 74
 170 11.63 (Pheno. No 293 of 16/10/75)
 170 6.57 (Phen. No 244 of 26/2/75)
 170 3.89 (Pheno. No 589 of 12/4/75)
 170 3.287 (--- 11.2. of 13/6/75)
 170 1.40

From the
to W. 1895 Belch
the Dist. Engineer,
to the Hon. Secy. of the
to Govt. of the
and

Enclo. 4

Di - 10-9-75 Date 7-8-75

1873
PUBLIC WORKS.

Mississippi,
Malabar.

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