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# MADRAS RECORD OFFICE

## Government of Madras

*Public Works* DEPARTMENT

|          |       |       |
|----------|-------|-------|
| G.O. No. | 1335  | Press |
| B.P. No. |       | Mis.  |
| Dated    | 10-5- | 1955  |

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
10th May 1875.*

No 234. Read the following letter from Captam J L L MORANT, R E, District Engineer, Neilgherries, to Colonel G. W. WALKER, R E, Chief Engineer, Public Works Department, dated Ootacamund, 9th March 1875, No 83 —

With reference to the concluding paragraph of Public Works G. O., No 290, of the 2nd of February 1875, I have the honor to submit a plan and estimate for providing the Wellington Barracks with lightning conductors. The specification attached to the estimate details the manner in which the lightning conductor is to be fixed. The ground around the Wellington Barracks, at a depth of four feet, is generally moist, so that no wells seem required where the conductors terminate.

No. 235

ORDER THEREON, 10th May 1875, No. 1,335.

MILITARY WORKS, No 5

The estimate, amounting to Rs 15,350, for providing lightning conductors to the Wellington Barracks, is sanctioned; but, as funds are not available for the purpose, the District Engineer, Neilgherries, will include the work in his demand on the reserve of 1875-76.

(True Extract)

(Signed) JOHN MULLINS, Lieut-Colonel, R E,  
*Officiating Secretary to Government.*

To the District Engineer, Neilgherries  
,, Military Department.

Exd A Grubert  
Spare Copies

Genl. D. E. Milgins 9 Mar 75 No 83.

Estimate for Lightning Conductors, Wellington N<sup>o</sup> 3

Circulars from orders.

Memorandum

Heretofore to limit the lightning conductors as proposed in this Memo. unless the married quarters are considered with safe without conductors inside PM

I agree with the above the buildings at Wellington have been struck, and are stated to be so situated as to render them liable to such casualties. I would protect all the buildings.

23-4.

ST

It seems doubtful whether all the Wellington Barracks ought to be protected from possible danger from lightning as is intended by the District Engineer. There is no doubt a tendency in particular spots to attract the electric fluid & therefore I think the blocks which was struck is really in need of lightning conductors & taking an almost extreme view of the necessities of the case the provision might be extended to the six blocks occupied by the single men. It is not usual to protect dwelling houses

in this manner & the reason is that accidents are too rare to make it worth the expense. The insured quarters & the out-houses ought to be struck as part of the list which would probably reduce it to one half the amount & save some \$4000.

Adm Secy

Wm W.

Circulated for order

Wm W. R. S.

Secy to Govt.

Estimate No. 101 of 1874-75.

Seilshury District.

Work Cost of providing Lightning Conductors to all the Principal Buildings connected with the Wellington Barracks.

| Length | Particulars                                |
|--------|--------------------------------------------|
| 540    | Linear ft of Copper rod for Staff Quarters |
| 3250   | of do for 3 Blocks of Barracks             |
| 1820   | of do for 4 Blocks of Prisons              |
| 690    | of do for 2 Blocks of Hospitals            |
| 300    | of do for School Block                     |
| 250    | of do for Cantonment                       |
| 140    | of do for Armoury Forge                    |
| 6990   | Total linear of copper rod 1 inch thick    |
| 690    | Insulators                                 |

Abstract Estimate No. 100 of 1874-75.

Seilshury District.

Work Cost of providing Lightning Conductors to all the Principal Buildings connected with the Wellington Barracks.

| Qty  | Description of Work                                                          | Rate Per Unit | Total   |
|------|------------------------------------------------------------------------------|---------------|---------|
| 6990 | Linear ft of Copper rod 1 inch thick being cut at Drarros including carriage | 1 1/2 d. ft   | 13232.8 |
| 690  | Insulators                                                                   | 2 @ 1380      | 942.0   |
|      | Fixing Copper rod forming junctions erecting ladders &c                      | 1000          | 14612.8 |
|      | Summies at 5 percent                                                         |               | 737.8   |
|      | Total Estimate Paper                                                         |               | 15350.0 |

Amount of Estimate Paper Fifteen  
 Thousand Three Hundred Fifty only

The rods to be of copper one inch thick.  
 The insulators or staples to be bored into  
 and bolted through the walls at a distance  
 of every 10 feet. The tops of the conducting  
 rods to be filed to a long point and  
 to project 5 feet above the lightning  
 rods which they are laid. The bottom  
 of the rods are to be driven into the  
 moist ground 5 feet and to be divided  
 into several pointed branches, slanting  
 away from the building.

*James Horant*  
 District Engineer's Office  
 95 March 1875  
 District Engineer

*[Faint handwritten notes and signatures at the bottom of the left page]*

*[Faint handwritten notes and signatures on the right page]*