

(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.

3090

Press

B.P.—No.

Mis.

Dated

20—11—1876
—195—

Not to be folded or roughly handled

Read the following letters:—

No. 317. From Colonel F. J. MOBERLY, P.E., Superintending Engineer, Chingleput, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated St. Thomas' Mount, 20th September 1876, No. 2,168.

I HAVE the honor to forward, for the sanction of Government and an allotment of funds, an estimate, amounting to Rupees 450, for providing glazed shutters, weather boards and lightning conductor to the instrument room of new proof range at Mount.

1 Plan.
1 Estimate.

2. The estimate has received the approval of His Excellency the Commander-in-Chief, who however doubts the necessity for a lightning conductor which was provided for the protection of the electric instruments that it was thought would be seriously affected by lightning.

No. 317-A. From the same Officer, dated St. Thomas' Mount, 14th November 1876, No. 2,858.

In reply to your No. T 1,024 of 28th September 1876, I have the honor to inform you that the wires at the new proof range have no means of earth contact. I

1 Estimate.

have suggested to the Commissary of Ordnance that he should remove the wires entirely from the building when they are not in use.

2. If the conductor be omitted the cost of the work required (glass windows) will only be Rupees 90; to enable me to sanction the reduced estimate I request permission of Government to transfer this sum from Repairs, Military, to New Work, Military, this work appears to be necessary shortly, when the weather will best allow of the proving experiments.

No. 318. ORDER THEREON, 20th November 1876, No. 3,090.

THE following transfer of funds is ordered:—

ACCOUNT, No. 24.							
From		RS.	To		RS.		
Minor New Works, Military, Tinnevely	...	90	Minor New Works, Military, Chingleput	...	90		
(True Extract.)							

Major-General, R.E.,
Secretary to Government.

To the Superintending Engineer, Chingleput.
" District Engineer, Tinnevely.
" Examiner of Public Works Accounts.

Exd. S. T. Austin.

Spare Copies

Head

Abstract Estimate No. 138 of 1876-77

Work

DISTRICT CHINGLEPUT, CANTONMENT

WORK.

Providing Glazed Shutters, Weather Frames and Lightning Conductors to the Instrument Room of New Cross Range at Mount Saint Thomas Mount
 Value of the building Rupees Date of last repair Cost of do.

quantities.	Description of Charges.	Rate.	Pr.	Amount.	Total.
108	Sq. feet Glazed Shutters Completed	u 120	Sq. ft	36 00	
49 1/2	do. Weather boards do.	u 120	do	37 20	
2 3/4	b. ft. Teak wood wrought and put up	3 20	C. ft.	8 96	
11	lbs Iron work	u 26	each	2 66	
8	No. Boring holes	u 20	do	1 00	
4	" Iron hooks	u 25	do	1 00	
2	" Removing and refitting windows	1 00	do	2 00	
233	lbs Copper work with gilding charge	1 30	lbs	276 11 00	
64	Sq. ft Iron Chain	u 25	Sq. ft	16 00	
662 1/2	lbs of galvanized Cart wire	23 50	lbs	69 00	
	Cart work	u 10	C. ft.	7 10	
	Contingencies			26 11 11	
	Total Rupees -				475

Saint Thomas' Mount,
 31st July 1876

[Signature]
 23/7/76

[Signature]
 Overseer D. P. W.

[Signature]
 Captain R. E.
 Executive Engineer.

Coll R. E.

Supg. Engineer, Chingleput District.

Specification

As it is necessary that the instrument should be guarded from the slightest gust of wind and as this cannot be done now without closing the shutters and thus darkening the room, it is proposed to fix glass shutters to the existing frames, after renewing such portions of the latter as require it.

The lightning Conductors are to be formed of Copper rods $\frac{1}{2}$ " diameter pointed at top, these will extend 3' above the point of the roof and 1' 6" into the ground with a return of 6" to which will be attached two iron chains 16 feet long diverging at an angle of 90 degrees, these chains will be bedded in Coke in trenches 2' deep and 1' 6" wide the earth being filled in over the Coke. The Conductors are to be two in number one at each end of the building they will be brought down the Centre of the gable until within 1' 6" of the top of the door or window where they will take a turn and be brought down to the ground a little on one side of the opening, allowance is made for a band of copper $3" \times \frac{1}{8}"$ round the window and outside door frames connecting all iron bars hinges &c. these bands are to be connected with the Conductors by other bands $4" \times \frac{1}{8}"$ nailed to the wall, nailed

P.W.D.
22nd/6

No.

Detailed Estimate No. 139 of 1876 77

MOUNT RANGE.

21/3 21/4 6

Work *Rebuilding Stages*

Shutters Weather Frames

and Lightning Conductors

to instrument room of

New Chief range at

Amount of Estimate Rupees 475

21/3 21/4 6

21 cashed

21/3 21/4 6

7582

nailed on to the window bands with
Copper nails at one end intimately
connected with the rods at the other.

F.W.D.

23 SEP 76

No.

Alfred Searcy

Taluk Overseer

Alfred Smith Captain R.C.
Executive Engineer.

Mount
31st July 1876

John 71466
1882

No. 3090

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 20th Nov. 1876
Read the following:—

From the Deputy Commissioner (H.S. No. 2153 of 20th Sept 1876)
(H.S. No. 2858 of 14 Nov 1876)

The following transfer
of funds is ordered.

From Minor New Works	To Minor New Works
Military, Tirunelveli - Rs 90	Military (Deputy Commr. Rs 90)

[Signature]
10/11/76

To Deputy Commr. ✓
of Tirunelveli ✓
By P.W. Auth. ✓
Drops 24-11-76

Govt. of Madras.

PUBLIC WORKS.

To *The Sup^r Eng^r Bangalore*

21/11/76

Dated

Issued

Recd

Encl.

1876, No.

3090

Nos. *317 - 318*

*Subscribed, Comm. for
New Road, Bangalore.
Comm. 1/11/76. 1/11/76.
1/11/76 - 1/11/76.
1/11/76 - 1/11/76.
1/11/76 - 1/11/76.
1/11/76 - 1/11/76.
1/11/76 - 1/11/76.*