

(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.	1328	Press
B.P. No.		Mis.
173-174.		
Dated	13. 5-	1873.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
13th May 1873.*

No. 173. Read the following letter from Major J. BEATTY, R. E., District Engineer, Vizagapatam, to Colonel G. W. WALKER, R. E., Secretary to Government, Public Works Department, dated Waltair, 15th April 1873, No. 110:—

I HAVE the honour to forward, herewith, for the sanction of Government, a revised estimate and comparative statement for erecting improved lightning conductors on the Garrison Powder Magazine at Vizagapatam.

2. The original estimate for the work in question which amounted to Rupees 440* was sanctioned in Government Order No. 1,477 of 16th June 1870, and funds† for its execution were allotted in G. O. No. 329 of 17th March 1873.

* As per G. O. No. 1,477 of 16th June 1870	...	...	...	...	580
Deduct the work proposed at the Little Expense Magazine which is no longer needed in consequence of the removal of the Ordnance Depot from Vizagapatam in 1871	...	...	...	...	140
					<u>440</u>

† Rupees 417.

amounts to Rupees 508, which is chiefly due to the increased rate for copper now required in the revised estimate.

4. The Executive Engineer tried both Calcutta and Madras, and found he could get the material cheapest at the Public Works Stores, though the price there demanded was more than double that allowed in the original estimate.

5. In the event of the revised estimate being sanctioned by Government, I request that the necessary funds may be placed at my disposal from the current year's Reserve.

No. 174. ORDER THEREON, 13th May 1873, No. 1,328.

MILITARY WORKS, No. 5.

SANCTIONED for a total of Rs. 948.

2. The question of providing funds will be considered when the demands from the Reserve come under review.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,

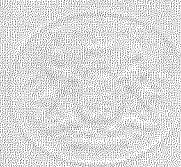
Secretary to Government.

To the District Engineer, Vizagapatam.

.. Officiating Controller of Public Works Accounts.

.. Military Department.

Erd. E. C. Shunker.



N^o 110

District Engineer's Office
Waltair 15th April 1873

From

The District Engineer
Vizagapatam

To

The Secretary to Government D.P.W.
Madras

Sir

I have the honor to forward herewith, for the sanction of Government, a revised Estimate and comparative statement for erecting improved Lightning Conductors on the Garrison Powder Magazine at Vizagapatam.

2. The original Estimate for the work in question which amounted to Rs. 440 was sanc-

* As per G.O. N^o 1477 of 16th June 1870 Rs. 580 tioned in G.O. N^o 1477 of 16th June 1870 and funds for its execution were allotted in G.O. N^o 829 of 17th March 1873.
Deduct the work proposed at the little expense Magazine which is no longer needed in consequence of the removal of the ordnance Depot from Vizagapatam in 1871. 140
440

x Rs. 417

3. From the comparative statement above referred to it will be seen that the excess over

the original Estimate, for which sanction is now re-
quired, amounts to Rs. 508; which is chiefly due to
the increased rate for copper now required in the
revised Estimate.

4. The Executive Engineer tried both Calcutta
and Madras, and found he could get the material
cheapest at ^{the} P. W. Stores, though the price there
demanded was more than double that allowed in
the original estimate.

5. In the event of the revised estimate being
sanctioned by Government, I request that the
necessary funds may be placed at my disposal
from the Current year's Reserve.

I have the honor to be

Sir

Your most obedt. Servant

~~W. R. S.~~ Major R.E.

District Engineer of
Vizagapatam

Comparative Statement Showing the Cost of Erecting Improved Lightning Conductors on the Powder Magazine at Vizagapatam

Original Estimate		Revised Estimate		Remarks
Description of Work	Rate Per Amount	Description of Work	Rate Per Amount	
741.78 lbs of Copper	83 lb 382 2 8	741.78 1 2 4 lb 849 7 11	467 5 3	
Freight from Madras and Shipping Charges	" " " " " " 25 "	" " " " " " 25 "	25 "	Both Messrs Thomson & Co Calcutta & the Supt ^t Government Workshop Madras were asked to submit tenders for the supply of the copper required, both tenders considerably exceeded amount of Original estimate. Government Workshop Superintendent being the lowest was accepted.
15 Cwt of excavating channels for chains filling in	" 1 " Cwt " 15 "	15 " 1 " Cwt " 15 "	" " " "	
Sheathing door, making nails covering the sheet in to a tub & putting up	" " " " " " 25 "	" " " " " " 25 "	25 "	
270 Cwt of Charcoal for covering chains	" 2 " Cwt 33 12 "	270 " 2 " Cwt 33 12 "	" " " "	
Contingencies and Superintendence	6 " 23 2 4 Pct	10 " 93 13 1 Pct	70 10 9	
Total		1440 "	508 "	
		Deduct Probable value of old conductors 1028 " 80 "		588 "
		Deduct the amount as per sanctioned estimate 418 " 440 "		508 "
		Balance now required 508 "		508 "

Executive Engineer
Office Waltan.
4th April 1873.

M W Middle Captain
Executive Engineer Vizianagaram

270 Cft of charcoal for } 0 20 0
 Covering Chains } 33 12 0

9342 11

Laundries & Superintendence 10 0 0 Per 93 13 1
 10280 0

Deduct probable value } 800 0
 old Conductors } 948 0 0

Deduct the amount as } 440 0 0
 per Sanctioned Estimate }

Balance now requiring }
 Sanction Rupees } 508

Executive Engineer's Office }
 Malabar }
 February 1873 }
 M. M. Kinde, Captain
 Executive Engineer
 Virajapattanam

A. B. The Estimate was increased
 in consequence of the rise in the
 price of copper.

M. M. Kinde, Capt
 In Sup Virajapattanam

L. Beatty, Major R.E.
 District Engineer of
 Virajapattanam

P. M. 2507/73.
 13 Aug 73
 174

Estimate of 1872-73.

Revised Estimate of the probable cost of erecting improved lightning conductors on the powder Magazine at Big Spring

. Head and Supl.							Description of charges	Rate	Per Stone	Insured	Total
Number	Length	Breadth	Height	Squares	Feet	Cubic Feet					
Grand Powder Magazine											
2	23 1/2	4 3/4	1 1/8				334 7/8	Copper tubular conductors 1 1/2" diameter & 1/8" thick at gables			
1	50 1/2	4 3/4	1 1/8				213 3/4	do at centre of building			
2	5	3	1/2				79 5/100	Solid rods upright			
1	54 1/2	1 1/2	1				283 1/2	Unsupported part Connecting band along roof			
1	158 3 1/2	1 1/8					892 1/2	do round building Connecting doors and windows with main conductors			
1	7 1/2	4	1/8				270	Copper sheathing for doors			
3	3	2	1/10				10 2/10	do for windows			
							2152135	00 684.378 lbs of Copper			
								57,000 lbs of Copper for hold fasts and nails			
							741.378	lbs of Copper	1 2 4 lbs	849 7 "	
								Freight from Madras and shipping charges			25 0 0
9	30	1 1/2					405	or 15 cys of excavating Channels, chains fittings	1 0 cys	0 15 0	
								Putting and sheathing doors			25 0 0
										C.O.	9006 11

Estimated 1800 of 1872-73

Nov 21st 1891

Henry Fitzpatrick

18

W. H. Long
Feb. 25 1878

100

Heinrich Edelmann of
 interesting information
 regarding conductors
 in the Staden-Hagaine
 at Vagapadum

P.H. 2504/73-

Federmichl. Rufus 308

No 16 June 70 No 221-222
Mand 70 - 246-308

At the office of the District Engineer
Vizagapatam
Dated 21-5-70

No 1328

Sanctioned for a total of Rs 948.
The question of providing funds
will be considered when the demands
from the Agents come under review.

W. H. P.

h. 173-74
Depd to London 14 April 72

P. W. 1873 Depart
From
The District Engineer
Vizagapatam

To
The Secretary to Govt. D. P. W.
Madras

Dated 15th April 1873
Desp. 18th
Recd 23rd

En: 2. No 110

Requesting that sanction
may be obtained to an
excess of Rs. 508 on the
sanctioned estimate for
Lightning Conductors to
Vizagapatam Garrison
Magazine.
With order

C/P 2507 A

Code of 1873 Madras.

PUBLIC WORKS.

No District Eng
Singapore

2

13 May

1328

Nos. 173 & 174

Lightning Conductors
in the Powder Magazine
at Singapore. Re-

vised estimate for
the lightning conductors,
sanctioned with remarks.