

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	66	Press
		~~Mis~~
127-138.		
Dated	8-1-	1864

Not to be folded or roughly handled

5

**Proceedings of the Madras Government, Public Works Department,
8th January 1864.**

No. 137. Read the following Proceedings of the Madras Government in the Military Department :—

Communicating letter from the Quarter Master General offering certain observations on the Estimates for fitting Lightning Conductors to Magazines, &c., at certain Stations, and approving of the same. (Here enter 23rd December 1863, No. 4,090.)

No. 138. ORDER THEREON, 8th January 1864, No. 66.

1. Communicated to the Superintending Engineers 1st, 2nd, 3rd and 7th Divisions, for information and guidance.

2. From Colonel Hemery's letter No. 233, dated 7th December 1863, the Government observes that the Estimate amounting to Rupees 25 for altering the Lightning Conductor to the Powder Magazine at Kurnool is to be charged against the allotment for that District under the head "Minor new works."

3. The Estimates mentioned below being less than Rupees 1,000 each will be met from the current year's Reserve and those marginally noted will be entered in the Budget for 1864-65 :—

Fitting Lightning Conductor to the Magazine in Cuddasah,	Rs. 1,560	
Altering do. to Grand Magazine in the Bellary Fort.	1,620	
Do. do. to the Small Arm Ammunition Expense Magazines attached to the Regiments stationed in Bellary ...	1,660	
		Rs.
1st Division. { Fitting Lightning Conductors to the Magazine at Berhampore,		210
Do. do. do. at Russelcondah,		140
Do. 2 do. do. at Vizagapatam,		530
Do. 4 do. do. at Vizianagram,		830
2nd Division. { Fitting do. do. to one of the Magazines at		236
3rd Division. { Masulipatam		966
Altering do. to the 2nd Magazine in the Bellary Fort...		966

4. The Estimate amounting to Rupees 204 for alterations to the Lightning Conductors at Wellington will be provided from the sum of Rupees 500 sanctioned in G. O. No. 1,662, dated 25th June 1863, for minor new works in the Coimbatore District.

5. Lieutenant-Colonel Walker is requested to state the particular allotments from which the amounts of the undermentioned Estimate are to be defrayed :—

Alterations to the Lightning Conductors at Cannanore,	Rs. 390
Do. do. at Malliaporam,	80

6. The attention of the Superintending Engineers, 3rd and 8th Divisions, will be requested to the remarks contained in paragraphs 2 and 3 of the Quarter Master General's letter recorded in the foregoing Proceedings.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 1st Division.
Do. do. 2nd Division.
Do. do. 3rd Division.
Do. do. 7th Division.
Do. do. 8th Division.

*By Controller & Ad. of P. W. D.
By Secy to General*

Erd. S. T. Augustin.

*Refusely of
By whom
Recommended*

Remarks.

[Signature]
[Signature]

New Work

Military

Abstract Estimate for altering Lightning Conductors to the
 "Small Arm Ammunition Expense Magazines" attached
 to the Regiments stationed in Bellary.

Quantity	Description of work	Rate	Per	Amount	Total
224	lbs of copper rod (using present) of slab.				
	Copper — " 12 — lb			168 . .	
	Smiths hire for rivetting —			5 . .	
106	R.F. of chipping laying in copper sheeting and replastering. —	" 2 —	R.F.	13 4 .	
18	Regard Excavation Trenches. —	" 2 —	Exp	2 4 .	
120	R.F. of old chain (dim wt 250 lbs)	6 .	alland	60 . .	
69	Pars of charcoal for filling Trenches (120 x 1 x 2).	" 12 —	Pars	57 12 .	
	Filling in the trench over charcoal			1 8 .	
90	Copper nails 10 long to fix the flat copper to walls. —	" 16	each	8 7 .	
					310 3 .
	Sundries, & Super at 7 per cent.				21 13 .
					332 . .
					For 5 Rupees. — 1660 . .
					Total Rupees

Bellary
 18th Sep 1863

Deputy

[Signature]
[Signature]

Superintendent

By whom	Recommended
By whom	Recommended
By whom	Recommended

Accepted of

By whom

Recommended

Abstract Estimate for
altering the Lightning
Conductors to the Small
Arm Ammunition
Explosive Magazines
attached to Regiments
stationed at Bellary
amounting to Rupees 1660.

Abstract Estimate for
altering the Lightning
Conductors to the Small
Arm Ammunition
Explosive Magazines
attached to Regiments
stationed at Bellary
amounting to Rupees 1660.

Estimate of the Probable expense of altering
the Lightning Conductor of the Powder
Magazine at Karnool -

[illegible]

Need of
By whom
Recommended

W. B. Perry
Civil Engineer -

Handwritten signature: *H. J. L. B. E.*

Edmund

2nd Engineers' Office
 3rd September 1862

Estimate of the probable expense of affording the facilities of the Seafaring Conductors attached to the European Board & Magazines at Washington

new Bald Article work

Amount of each

Explanation
of the
Necessity of
Gen.

By whom
Recommended

Name of bird
 Length
 Breadth
 Depth
 Quail
 Content
 Quail
 Content

[illegible][illegible]

Condicio and-Contingencie *Abul*

Total Estimated Value—80

John
Captains of Co.

Executive Engineer's Office,
Mantua

Received 14th July 1863

Taken the 21st of Feb.
 Captains & Ensigns of the
 2nd Cavalry
 2nd Cavalry

On a letter from the
Council Ensignien, November 6, the
defendants' standing request
3^d Ensignien dated 3^d and

August 24/September 1865

82-142

PM 5292/b3

1799/63

M. D. 1857 53 of 1863

In a letter from the
 Engineering & Division
 No 113 of 26th August 1863
 to the Secy. to Govt. of
 Madras -

O.M. 3392/63

70.772360/63
 No. 2. No 5783 of 1863

Estimate of the probable
 expense of Altering the position
 of the existing Conductors
 attached to the European Barracks
 Magazine at the Madras Barracks

Amounting to Rs. 80 - - -

Military Buildings -
 Estimate of the probable expense of altering the existing conductors attached to the Magazine at Barracks prepared
 agreeably to the order of Government No 1540 dated 15th June 1863

No.	Work	Measurements		Rate	Value of Work	Part of each		Explanation of necessity	By whom recommended
		L. B.	Q. B.			Article	Part		
		67 1/2	3 1/4		Altering position of conductors attached to the Magazine				
					Copper Plate for Ridge				
					with Conductors				
					120 ft of Copper Plate 4" X 1/2"	120	120		
					10 Copper Staples for Conductors	10	10		
					25 Copper Nails to fasten Conductors to Building	25	25		
					Removal & re-fixing of present Conductors				
					Opening Channel for Conductors & filling with mortar				
					and Part				
					Total for Grand Magazine		154 1/2		
					Altering Conductors of Magazine in European Barracks				
					Copper Plate for Ridge				
					for connecting Copper sheeting of Doors with Conductors				
					120 ft of Copper Plate 4" X 1/2"	120	120		
					4 Copper Staples to fasten Conductors to Building	4	4		
					10 " Nails " " fasten Ridge Plate to "	10	10		
					Removal & re-fixing of present Conductors				
					Opening Channel for Conductors & filling with mortar				
					Total for Magazine at Barracks		144 1/2		
					Carried forward				

To the Hon. Secy. to Govt. of Madras
 in reply to the order of Government No 1540 dated 15th June 1863

in a letter from
the Dept. of the Interior
dated 11/13 of 1883
to the Secy. of the Interior
R. P. McQuinn

100.5392/63

100.5392/63

100.5392/63

Receipt for a letter from
the Secy. of the Interior
dated 11/13 of 1883
R. P. McQuinn

Kistna District

No. 25 of 1863-64. Estimate of the probable expenses of improving the Lightning Carcass of one of the
 Expended Magazines in the Fort of Mandapam and for removing the existing one -

Name of work.	Measurement.				Rate.	Amount.	Remarks.
	Length.	Breadth.	Height.	Thickness.			
Improving the Lightning Carcass of one of the Carcasses in the Fort of Mandapam.							These are three Carcasses Magazines in the Fort. Each furnished with lightning conductors, but ammunition is stored in only one of them, and the estimate - confined to removing the lightning conductors attached to it -
180 lbs of Copper sheet of four eightths of an inch in thickness					17	125	
76 Nails Copper					2	9	
16 Copper clamps with nails					2	40	
Time for cutting Copper sheet and fitting it up with copper nail in hole using the coat of scaffolding						25	
Removing the existing Lightning Carcass						4	
Digging a trench and putting up a chain to the lower end of Copper wire on both sides including cost of the work of Chain						20	
Success and Contingencies					5	11	
Total Estimate						230	

7th June 1863
 Mandapam
 26th September 1863

The powder Magazine is used at
 present for small arms
 Ammunition only -
 the stock in hand is as
 follows -
 Cartridges shot 339000 -
 Cartridges 372000 -
 J. Anderson Esq. M.B.
 Superintendent
 2 Drum

Abstract Estimate No of 1863/64.
District Buddapah.

Work. Making and Fixing Lightning Conductors to the Powder Magazine in the Cantonment of Buddapah prepared in conformity to the Proceedings of Government dated 15th June 1863.

Quantity	Description of Work.	Rate	Amount	Total
121 lbs	of Rod Copper ————— per lb	1	"	121 " "
41 1/2	do of Bolt do ————— do	"	14	36 6 2
72 1/2	do sheet do ————— do	"	12	54 4 14
	Smith's hire for Rivetting &c ————— do	"	"	15 " "
1125	lbs Iron Chain ————— for Mannd of 25 lbs	6	"	270 " "
170	Running feet Chipping plaster and laying in Coffer & replastering —————	"	9	21 4 "
81	baric jars & excavating trench —————	"	2	6 12 10 6
40 1/2	do gravel —————	"	8	20 4 "
505	Saraks of Charcoal —————	"	12	378 1/2 "
	Sundries —————			69 13 4
	Superintendence —————			70 " "
Total of Estimate Report				1560 " "

Buddapah Range Office,
Cuttack
29th September 1863

1450

W. H. M. M. M.
S. Sub Registrar
Buddapah Range
Deputy Registrar
3rd Div.

Industries in a letter from
the Survey Engineer & Co.
to the Hon. Secy of Govt.
Dated 29th Sept 1863.

Ind. A. B. C. Engineer D. B. C.
Assistant Engineer & Co.
in charge of the
work of the
Superintending Engineer
3rd Division

Estimate No 1863.
No. 6 of 1863-64. Estimate of
the probable cost of
making and fixing lightning conductors to the
Powder Magazine in the Cantonment of Buddapah
prepared in conformity to the Proceedings of Government
dated 15th June 1863.

Military

New York.

Estimate No. 2. of 1863 and 1864.

Wellington -
Combatant District

Work. Removing and fixing the present Lightning Conductor from the Hospital Guard room used as Magazine to the old Magazine at Wellington. Value of Magazine Replaced 1575.

Description of Charges	Price	Rate	Amount	Total
6. Brackets of Copper to be fixed on the old Magazine to hold the Lightning Conductor.	7	8	each 45	" "
Removing the present Lightning Conductor and fixing it on the old Magazine.			150	" "
				195 " "
				9 " "
				204 " "
Sandries about 5 per cent.				
Amount of Estimate Rs.				204 " "

Executive Engineers Office
Nalghevries
Wellington 17 June 1865

Whitcomb Major
Executive Engineer

Whitcomb Major Genl
Commanding Fortification
Quarterm. Lieut. Col. A. G.
Superintending Engineer 7th Division
allotment

Altogether estimate for making and fixing up lightning conductors to the old Magazine in the Combsment 1865.

P. H. 2892/63
J. H. 3999/63
M. D. 285783 of 2853

59

MILITARY DEPARTMENT.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers:—

Proceedings of Government, Public Works Department.

Referring for consideration Estimates for fitting Lightning Conductors to Magazines, &c., at certain Stations. } Here enter 3rd December 1863, No. 3549.

Referred to the Commander-in-Chief, (Quarter Master General's Department.)
8th December 1863.

From the Quarter Master General, Fort Saint George, 10th December 1863, No. 9624; to the Secretary to Government, Military Department.

In returning the Plans and Estimates received with Order of Government, No. 3549 of the 3rd December 1863, Public Works Department, referred to the Commander-in-Chief on the 8th idem, I have the honor, by order of His Excellency to offer the following observations.

2. It is believed that the Lightning Conductor attached to the Magazine at Palamcottah though close to the Building, is still insulated from it, there is no apparent reason why the Conductor for this Magazine should not be of the same design as that proposed for the Magazine at Bellary.

3. The Conductor near the Magazine at Kurnool, if on the old Plan, should be modified as at Bellary.

4. It will suffice if a Conductor is attached to one of the Magazines at Masulipatam. If deemed necessary, this work can lie over, as proposed by the Superintending Engineer, and be entered in the Budget for 1864-65.

ORDER, No. 4090, 23rd December 1863.

Ordered that the foregoing letter from the Quarter Master General, be communicated to the Department of Public Works.

2. The Estimates recorded in paragraph 3 of the Order in the above Department, No. 3549, dated 3rd December 1863, are approved.

(True Extract.)

M. M. M. H. S.

Deputy Secretary to Government.

To the Public Works Dept., with 16 enclosures and 6 Plans.

420/16/1863

„ Quarter Master General.
„ Insp. Genl. of Ordnance, for information.

Exd. J. E. Cashart.

*in a letter from the
Q. M. G. to the
Secy. to Govt. dated
11th Dec. 1863. In
reply to the letter
of the Secy. to Govt.
dated 11th Dec. 1863.
The Q. M. G. has
been directed to
submit a plan of a
conductor for the
Magazine at Bellary.
The plan is submitted
to the Secy. to Govt.
for consideration.
The Secy. to Govt.
has directed the
Q. M. G. to submit
a plan of a conductor
for the Magazine at
Kurnool. The plan
is submitted to the
Secy. to Govt. for
consideration.*

D. S. M.

*Public Works
Department*

*Received by the
Public Works
Department
on 11th Dec. 1863.*

allotment

allotment for that
District under the
head "Minor New Works"

The Estimate men-
tioned below being less
than Rs 1000 each will
be met from the Current
year's Reserve and those
marginally noted will
be entered in the Budget
for 1864/65 -

1 st	Filling Lightning Conductors to the Magazine at Berhampore - (Rs 210	
	do. to do at Russelcondah - " - 140	
	do. to do at Vizagapatnam - " - 530	
	do. to do at Vizagapatnam - " - 830	
2 nd	Filling Lightning Conductors to one of the Magazines at Masulipatnam - " - 236	
3 rd	do. to do to the 2 nd Magazine in the Bellary Fort - " - 966	

Filling Lightning Conductors to the Magazine in Cuddalore - (Rs	1560
do. to do to the 1 st Magazine in the Bellary Fort -	620
do. to do to the small Am- munition reference Magazines allotted to the Regiment stationed in Bellary -	1660

4 The Estimate in
amounting to Rs 204
for alterations to the Light-
ning Conductors at
Wellington will be provided
from the sum of Rs
500 sanctioned in G.O.
No 1662 dated 25th June
1865 for minor new
works in the Combarone
District.

5. Sent Doll Kodhe,
is requested to state
the particular allotments
from which the amounts
of the undermentioned
Estimates are to be
defrayed

Alterations to the Lightning Conductors at Ponnore - (Rs -	390
do. do. at Mallapooram - " -	80

6 The attention of
the Supergrs. 5 and 8
Jas will be requested
to

to the person to con:
- named in paras 2 and
3 of the Quarter Order
General's letter recorded

W.B.

1838

N^o 137. 138.

To
The Superintend^t 1st Div
- do - do - 2nd do
- do - do - 3rd do
- do - do - 7th do
do - do - 8th do
- Controller & Aud^r of P^y
- Accountant Gen^l of P^y

Dec^r 9th January

137 1864 Peter
of Major Goodenough

Page 66.
Memo. of W. H. Wood
22/18 Jan'y 1871

Under C. M. 312/84

Communicating
letter from the 23rd 1871
General Officer in
certain observations on
the estimates for bettering
light-buoys to
Magoynies, viz., at
certain stations, and
clearing of the same?

22/187. 188.