Archives 1—10,006—6-10-76.

(1) Number of pages 22

(2) Date of repair 19-8-86

(3) Initials of the Referencer [illegible]

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D DEPARTMENT

G.O. No. / B.P. No.	3189-W	Press. / Mis.
Dated	9-8-1878.	197 .

R.R.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

9th August 1878, No. 3,189 W.

Buildings and Roads,
Military Works.

Read the following paper :—

No. 109. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Public Works Department, dated Fort St. George, 23rd July 1878, No. 2,438.

WITH reference to memorandum No. 3,239, dated 19th July 1878, I have the honor to submit a report of the present state of the batteries and of the work which I propose carrying out so as to leave them in a condition in which they will not rapidly deteriorate.

One report.
One approximate estimate.

2. I also submit an approximate estimate of what this will cost. I wish it to be understood that the approximate estimate I now submit provides only for such work as must be carried out to bring them from their *present state* up to the state in which the Government desire that they shall be left.

PRESENT STATE.

LIGHT-HOUSE BATTERY.

Shell-room.—Arched over.

Magazine.—Arch-work completed.

Revetment of parapet in front of platforms.—Completed.

Revetment of epaulment on each side Magazine.—Raised to height of nine feet.

Gun platforms.—A thickness of three feet of concrete laid in each.

Sandwork.—Carried out as far as the state of masonry above detailed admits.

Work to be done.

Shell-room.—Straight revetment wall (colored green) to be built in front.

Walls to be raised sufficiently to admit of concrete being laid down to a level of one foot over the arch.

Plastering.—None as yet done.

Roadways.—Leading from Beach Road to terre-plein of batteries about half done.

Platforms.—Completing to receive racers when pattern of racers has been decided.

Magazine.—Walls to be raised to correspond with height of shell-room to receive concrete.

Revetment Walls of Epaulment.—To be raised to a corresponding height to retain the sand and earthwork in position.

Sandwork.—Bringing up to a height to correspond with that at which the brickwork is now to be stopped.

Earthwork.—Covering over the sand parapet with earth to a depth of six inches and planting with grass, &c.

Enclosure Fences.—Should be provided.

Brackets for Verandah of Shell-room.—These brackets will not be put in, as the masonry will be stopped a little below the level at which they would have been inserted.

Doors.—Cheap strong batten doors will be placed in the entrances to the magazines and shell-rooms.

Plastering.—All the exposed portions of masonry to be coated with Portland cement.

Roads.—To be completed from Beach Road to terre-plein of batteries.

NAPIER BATTERY.

The work at this battery is between four and five days behind the Light-house Battery; but, as it must be brought up to the same stage as the Light-house Battery before it can be stopped, my proposals regarding its completion are the same as for the Light-house Battery.

CLIVE'S BATTERY.

Magazine.—The excavation made for an additional magazine will be filled in.

Platforms.—The north platform is in progress. The south platform will be taken in hand as soon as the excavation for the magazine has been filled in. Both platforms will be constructed as far as possible in the absence of orders regarding racers.

Sandwork.—Has, already been almost completed to full extent of Chief Engineer's verbal order regarding increasing thickness of parapet. To preserve the sandwork clay should be laid over it and grass, creepers, &c., planted; but this cannot be done until the place has been secured from trespass by a fence of some sort.

The Napier and Light-house Batteries should also be secured from trespass by fences, if the grass, &c., is to have a chance of growing.

The probable cost of carrying out these works to the stage at which Government now direct them to be stopped at is as per enclosed statement.

(Signed) ROSS THOMPSON, Major, R.E.,
District Engineer, Presidency.

23rd July 1878.

No. 164 OF 1878-79.

Statement of Approximate Cost of completing.

——	Concrete.	Brickwork.	Rate.	Amount.	Total.
			RS. A. P.	RS.	RS.
Light-house Battery.					
Revetment walls in front of shell-room (colored green).	1,860	...	0 4 0	465	
Do. do. do. ...	...	620	0 3 6	135	
					600
Side walls of shell-rooms	...	...	...	...	
Concrete over do.	1,411	...	0 4 0	353	
					353
Magazine walls	...	1,452	0 3 6	318	
Concrete over do.	1,596	...	0 4 0	399	
					717
Revetment walls of epaulment	594	...	0 4 0	148	
Do. do.	...	2,870	0 3 6	628	
					776
Steps for one-gun platform	...	202	0 3 6	57	57
Portland cement over face of all exposed masonry.	Square.	130	10 0 0	...	1,300
Completing sandwork	C. yds.	5,478	0 2 0	685	685
Earthwork over sand	,,	687	0 12 0	515	515
Planting grass, including watering	Square.	262	0 12 0	196	196
Fence { Foundations of masonry	C. feet.	1,248	0 3 6	273	...
Fence { Woodwork	,,	723	3 1 0	2,214	...
Fence { Painting	Square.	120	2 6 6	301	...
					2,788
Doors for magazine, country wood, batten, 3 × 7.	,,	21	0 12 0	16	
Doors for magazine, country wood, batten, 4 × 7.	,,	28	0 12 0	21	
					37
Door for shell-room, 4 × 6½	,,	26	0 12 0	20	20
Painting doors and windows	,,	2½	2 6 6	6	6
Completing road	...	...	...	350	350
Total ...	...	...	...	...	8,400

Statement of Approximate Cost of completing—continued.

——	Concrete.	Brickwork.	Rate.	Amount.	Total.
			RS. A. P.	RS.	RS.
Napier Battery.					
Revetment walls in front of shell-room (colored green).	1,860	620	0 4 0 0 3 6	465 135	
					600
Side walls of shell-room	...	110	0 3 6	26	
Concrete over shell-rooms	1,836	...	0 4 0	459	
					485
Magazine walls	...	1,855	0 3 6	406	
Concrete over walls	1,362	...	0 4 0	465	
Archwork over do.	...	982	0 4 0	245	
					1,116
Revetment walls of epaulment	528	...	0 4 0	132	
Do. do.	...	2,108	0 3 6	461	
					593
Revetment wall for platform	...	610	0 3 6	153	153
Portland cement over face of all exposed masonry.	Square.	130	10 0 0	1,300	1,300
Completing sandwork	C. yds.	5,457	0 2 0	682	682
Earthwork over sand	,,	687	0 12 0	515	515
Planting grass, including watering ...	Square.	262	0 12 0	196	196
Fence { Foundation of masonry	C. feet.	1,248	0 3 6	273	...
Fence { Woodwork	,,	723	3 1 0	2,214	...
Fence { Painting	Square.	120	2 6 6	301	...
					2,788
Doors for magazines, country wood, batten, 4 × 7.	Sq. feet.	28	0 12 0	21	
Doors for magazines, country wood, batten, 3 × 7.	,,	21	0 12 0	16	
					37
Door for shell-room, 4 × 6½	,,	26	0 12 0	20	20
Painting doors and windows	Square.	2½	2 6 6	6	6
Completing road	...	...	...	350	350
Total ...	...	...	...	...	8,821
Clive's Battery.					
Breaking up old stone platforms and excavation.	...	...	...	...	100
Two new platforms	...	...	...	...	1,000
Filling in magazine excavation	...	...	...	...	140
Rebuilding wall broken through	...	...	...	...	80
Total ...	...	...	...	...	1,320

(Signed) ROSS THOMPSON, Major, R.E.,
District Engineer, Presidency.

23rd July 1878.

No. 110. ORDER THEREON, 9th August 1878, No. 3,189 W.

WITH the above the District Engineer forwards a report on the present state of the batteries in progress on the Madras beach and a statement of the approximate cost of partially completing them in accordance with instructions lately forwarded to him.

2. The Government approve generally of the works proposed to be undertaken, but are of opinion that a considerable reduction of the cost may be effected by

MILITARY AND NAVAL
MILITARY WORKS.

Coll. of 1878 [illegible]

PUBLIC WORKS.

The DISTRICT ENGINEER,
PIETERMARITZBURG.

[illegible]

[illegible] Bath.

[illegible] Bath.

[illegible] Bath.

No. 8934

General

From

Resident Engineer,
Pendennis

No. 2238

Dated 25th July 1878

Rec'd 12 " "

No. of Enclosures, 2. 3"

Matters.—

Submits report upon the present state and work to be done to ds — with Estimate.

Recd 3-8-78 Ord 4-8-78
Ct. 26-7-78. Ack 3-8-78
Ord Encl 7 Pds

Present State.

Light House Battery.

Shell room arched over.

Magazine. Arch-work completed.

Revetment of parapet in front of platforms completed.

Revetment of epaulment on each side of Magazine raised to height of nine feet.

Gun platforms at the rings of 3 feet of concrete laid on each.

Hand-work. Carried out as far as the last of masonry above detailed admits.

Work to be done.—

Shell room. Straight revetment wall — (colored green) to be built in front.

Walls to be raised sufficiently to admit of concrete being laid down to a level of one foot over the arch.

Plastering. None as yet done.

Roadway. Leading from beach road to terre-plein of batteries about half done.

Platforms. Completing to receive pavers when pattern of pavers has been decided.

Magazine. Walls to be raised to correspond with height of shell room to receive concrete.

Revetment walls of apartment. To be raised to corresponding height to retain the sand and earth work in position.

Sand work. Bringing up to a height to correspond with that at which the brickwork is now to be stopped.

Earth-work. Covering over the sand parapet with earth to a depth of 6 inches and planting with grass &c.

Enclosure fences. Should be furnished.

Brackets for verandah of shell rooms. These brackets will not be put in, as the masonry will be stopped a little below the level at which they would have been inserted.

Doors. Cheap strong batten doors will be placed in the entrances to the Magazines and shell rooms.

Plastering. All the exposed portions of masonry to be coated with Portland Cement.

Roads. To be completed from Beach Road to terre-plein of batteries.

Napier Battery

The work at this Battery is between 4 and 5 days behind the Light House Battery but as it must be brought up to the same

3187/6

stage as the Light House Battery, before it can be stopped, my proposals regarding its completion are the same as for the Light House Battery.

Olives Battery

Magazine. The excavation made for an additional Magazine will be filled in.

Platforms. The north platform is in progress. The south platform will be taken in hand as soon as the excavation for the Magazine has been filled in. Both platforms will be constructed as far as possible in the absence of orders regarding traverses.

Sand work. Has already been almost completed to full extent of Chief Engineers verbal order regarding increasing thickness of parapet. To preserve the sand work clay should be laid over it, and grass, creepers &c planted, but this cannot be done until the place has been secured from trespass by a fence of some sort.

The Napier and Light House Batteries should also be secured from trespass by fence - if the grass &c. is to have a chance of growing.

The probable cost of carrying out these works to the stage at which Fort

...wo direct thru to be stopped at as per
closed Statement.

J. Buchanan Major R.E.
District Engineer Baden

23rd July/78.

JS

Statement of approximate cost of Completing Light House Battery

3187

		Concrete	Brick work	Rate	Amount	Total
Revetment walls in front of shell room (colored green)		1860		" 4 "	465 " "	
do			620	" 3 6	135 " "	600 " "
Side walls of Shell Rooms						
Concrete over shell rooms		1411		" 4 "	353 " "	353 " "
Magazine walls			1452	" 3 6	318 " "	
Concrete over do		1596		" 4 "	399 " "	717 " "
Revetment walls of Epaulment		594		" 4 "	148 " "	
do			2870	" 3 6	628 " "	776 " "
Steps for 1-9pm platform			262	" 3 6	57 " "	57 " "
Portland Cement rendering face of all exposed Masonry		Square	130	10 " "		1300 " "
Completing Sand work		Cyds.	5478	" 2 "	685 " "	685 " "
Earth work over vaulted		Cyds	687	" 12 "	575 " "	675 " "
Planting Grass including watering		Square	262	" 12 "	196 " "	196 " "
Since Foundations of masonry		cft	1248	" 3 6	273 " "	
do Wood work		cft	723	3 1 "	2214 " "	
do Painting		Sqrs	120	2 6 6	301 " "	2788 " "
Doors for Magazine, Country wood battens	3x7		21	" 12 "	16 " "	
do	4x7		28	" 12 "	21 " "	37 " "
Door for Shell room	4x6½		26	" 12 "	20 " "	20 " "
Painting doors & windows		Sqr.	2½	2 6 6	6 " "	6 " "
Completing Road				" "	350 " "	350 " "
					Total Rupees	5700 " "

Napier Battery.

Revetment walls in front of Shell rooms (colored green)	1860			4	465			
	"	620	"	3	6	135		600
Side walls of Shell room	"	119	"	3	6	26		
Concrete over shell rooms	1836	"	"	4	"	459		485
Magazines walls	"	1885	"	3	6	406		
Concrete over do	1862	"	"	4	"	465		
Arch work over do	"	922	"	4	"	215		1116
Revetment walls of expansement	528	"	"	4	"	132		
do	"	2108	"	3	6	461		593
Revetment wall for platform	"	610	"	3	6	133		133
Portland cement over face of wall								
Exposed Masonry	Sqr.	130	10	"	"	1300		1300
Completing Sand work	cyds	5457	"	2	"	682		682
Earth work over Sand	"	687	"	12	"	515		515
Planting Grass including watering	Sqrs.	262		12		196		196
Fence Foundation Masonary	cft	1248		3	6	273		
do Wood work	"	723	3	1		2214		
do Painting	Sqrs.	120	2	6	6	301		2788
Doors for Magazines Country wood battens								
4x7	Sq ft	23		12		21		
do 3x7	"	21		12		16		37
Door for shell room 4x6½	"	26		12		20		20
Painting doors windows	Sqrs.	2½	2	6		6		6
Completing Road						350		350

Total Rupees 8821

Colinga Battery.

Breaking up old Stone platforms and excavation	100
2 New Platforms	1000
Filling in Magazine Excavation	140
Rebuilding wall broken through	50
Total Rs	1290

Major R.A.

Capt. & Engineer in charge

PUBLIC WORKS DEPARTMENT.

Letter from the Government of India No 2664
dated 18th July 1878.

Letter from the District Engineer, Presidency,
No 2631 dated 23d July 1878.

FOR ORDERS.

Under Secy to Govt

undertaken but are of opinion
that a considerable re-
duction of the cost may be
effected by substituting
ordinary plaster of good
quality for Portland
Cement and omitting the
proposed fence (Rupees 2705 ÷ 2 = R 5576 -
and the retaining walls of epaulements estimated at R 1369
referred to in the District
Engineer's letter No 2279. and the road works estimated at
R. 7028

607
3/0

Cir 3.8.78. Rec'd 5.8.78
Ord Check 77 pltg

On 5 dft 9/8/78
H.E. Secundrabad
Military Dept
R.F. Sept 20
dft 19-8-78

Govt. of (1878) Madras.

PUBLIC WORKS.

To

A. L. Reading Esq.

Dated

Recd.

Encl.

G. O. 9th Augt 1878. No. 318 Pub.

Pos. to 3 Letters

Patterns of the Madras Beach Asylums with Remarks thereon and Specifications to be made a Part of Contracts with the