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(2) Date of repair 1.9.88
(3) Initials of the Referencer low

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works. DEPARTMENT

G.O. No.	3749 (w)	Press.
B.P. No.		Mis.
Dated	24.9.1878	-197

ms

Not to be folded or roughly handled.

3749
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

24th September 1878, No. 3,749 W.

Buildings and Roads.
Military Works.

Read the following paper:—

No. 273. From Major ROSS THOMPSON, R.E., District Engineer, Presidency, to the Chief Engineer, Public Works Department, dated Fort St. George, 7th September 1878, No. 3,419.

With reference to your memorandum, No. 3,726, of 22nd August 1878, I have the honor to state that the estimates submitted with my letter, No. 2,771, of 8th August 1878, were, as you correctly suppose, the original estimates for completing the Light-house and Napier Batteries as first intended.

2. I now submit estimates, amounting to Rupees 34,520, for the Light-house and Napier Batteries, and Rupees 9,080 for Clive's Battery. These estimates provide for work already done and remaining to be done to complete the works to the extent sanctioned in G.O., No. 3,189 W, of 9th August 1878, and in G.O., No. 3,317 W, of 19th August 1878.

3. Lump sums have been entered in these estimates for the completion of the concrete platforms, as in the present state of uncertainty regarding the racers and traversing platforms to be used, detailed estimates of their cost cannot be arrived at.

4. In the estimate for Clive's Battery, the completion of the enclosure wall has been provided for, as it would be perfectly useless to lay down clay over the sand parapet without efficient protection.

5. With reference to paragraph 2 of G.O., No. 3,189 W, of 9th August 1878, plaster has been substituted as directed for Portland cement. Fences for Napier and Light-house batteries have been omitted, but the retaining walls of epaulments were completed before these orders were received to omit them.

No. 274. ORDER THEREON, 24th September 1878, No. 3,749 W.
THE following estimates are sanctioned in lieu of those sanctioned in G.O., No. 3,387 W, of the 24th August 1878:—

	RS.	Register No.
1. Constructing Light-house Battery	17,910	81
2. Do. Battery at Napier bridge	16,610	82
3. Work executed at Clive's Battery	9,020	83
Total	43,540	B. of 1878-79.

2. A sum of Rupees 52,220 having been provided for the works in the orders of the 14th August, the difference, viz., Rupees 8,680, is credited to the Reserve under Military.

3. This sanction has been registered as Imperial and numbered as shown above.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secy. to Govt., P.W.D.

(True Copy.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the District Engineer, Presidency.
" Examiner of Public Works Accounts.
" Military Department.

Exd. E. C. Shunker.
Spare Copies

BUILDINGS AND DOCKS.
MILITARY WORKS.

GOVT. of 1878) Madras
PUBLIC WORKS.

THE DISTRICT ENGINEER,
PRESIDENCY.
S. C. CO., 1878.

Dated September 24th.

Learned

Attest

Encl.

G. O. No. 244 of 1878, No. 274 W.

RECEIVED

NO. 273-274

Originals Nos. 273 and 274 of 1878
Estimate amounting to Rs 41,520 for
the works and the difference from the
original estimates being the balance to be
under Military.

No. 3419
From

The District Engineer, 349
Presidency

To,

The Chief Engineer, and
Secretary to Govt. S.P.W.

Sir,

With reference to your memo No. 3726
of 22nd August 1878, I have the honor to state
that the estimates submitted with my letter
No. 2771 of 8th August 1878 were, as you correctly
suppose, the original estimates for completing
the Light House and Napier Batteries as
first intended.

2. I now submit estimates amounting
to Rs 41,520 for the Light House & Napier
Batteries, and Rs 9080 for Jones Battery.
These estimates provide for work already
done and remaining to be done to com-
plete the works to the extent sanctioned in
G.O. No. 3189 W of 9 August 1878 and in
G.O. No. 3317 W of 19th August 1878.

3. Lump sums have been entered in
these estimates for the completion of the
concrete

concrete platforms, as in the present state of uncertainty regarding the racers, and traversing platforms to be used, details of estimates of their cost cannot be arrived at.

4. In the Estimate for Lewis Battery, the completion of the enclosure wall has been provided for, as it would be perfectly useless to lay down clay over the sand parapet, without efficient protection.

5. With reference to para 2 of G. O. No. 3189 of 9 August 1878 -

Plaster has been substituted as directed for Portland Cement. Prices for Vapier and Light House Batteries have been omitted, but the retaining walls of casemates were completed before these orders were received to omit them.

I have the honor to be

Sir,

Your most obedient servant.

Wm Thompson Major R.
District Engineer
Residency

Wm Thompson
7th Sept 1878. Secy. 7/3

1878 10/10

Go. 3189 N 9.8.78
- 3317 N - 19.8 -
- 3387 N - 24.8 -
C.E. 3726. 22.8.78

No 10066
Roads and Buildings

From,

The District Engineer
Presidency.

No. 3419
dated 7th Sept 1878
Recd 9th Sept 1878

No. of Enclosures - 4.

Batteries.

Submit Estimate for
the Light House, Napier and
Chine's - for Rs 3452 and
Rs 9080 respectively.

To 204. 14.9.78
Cir 18.9.78

134 R
July works.

No 3749 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 24th Sep/78.

Read the following:-

From the Madras Presidency (N.R. No 3419 7th Sep/78)

The following Reti-
mates are sanctioned
in lieu of those sanc-
tioned in G.O. No 3387 W of
the 24th August 1878.

1. Constructing Light House Battery. ... Rs. 17,910.81
2. Do. Battery at Napier Bridge ... 16,610.82
- 3 Work executed at Chines Battery ... 9,020.81

Total Rs. 43540

A sum of Rs. 52,220
having been provided
for the works in the Orders
of the 14th August, the
difference, viz. Rs. 8680,
is credited to the Reserve
under Military.

M. Presidency
By Mr. Asst. Secy.
17.9.78

This sanction has been regis-
tered as Imperial & numbered as
shown above.

No. 245 of 1371-73 of 7 September 1878

Head of Service *Imperial*
Fund *Ordinary*
Class *Original works*
Main Head *Military*
Sub-head *Fortifications*

3749
6

Name of Work *Constructing Light House and Vapor*

Bridge Battery on the Sea Beach as per District Engineer's
of 31st of 24 August 1878.
Amounting to Rupees 34515.

To be carried out

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
<i>For one Shell room -</i>						
<i>Concrete -</i>						
<i>Room including the thickness</i>						
<i>of walls -</i>	1	14	18 1/2	1 1/2	300 1/2	✓
<i>Verandah -</i>	1	27	12	1 1/2	406	✓
<i>Sides of Platform -</i>	2	8	2 1/2	1 1/2	60	✓
<i>- do -</i>	2	16	3 1/2	3	336	✓
<i>Between Shell room -</i>	2	8	5 1/2	3	264	✓
<i>do -</i>	2	10	4	3	240	✓
<i>do over do -</i>	2	18	4	3	432	✓
<i>do over Arch -</i>	2	17	4	5	680	✓
<i>do -</i>	1	16 1/2	13	3 1/4	804 3/8	✓
<i>In front of Shell room -</i>	1	21	6 1/2	3	409 1/2	✓
<i>Filling in -</i>	1	21	4 1/2	8	756	✓
<i>Total Cft of Concrete with Ratite jelly -</i>					4856	X
<i>Small Vault -</i>						
<i>Side walls -</i>	2	14	3	7 1/2	595	✓
<i>Front walls -</i>	1	26	3	12	936	✓
<i>Rear - do -</i>	1	13	3 1/2	9 1/2	413 1/4	✓
<i>do -</i>	1	13	2	2	52	✓

Cir 18.9.78 Ret 24-9-78
14-9-78

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Skew back—	2	18	3	1/2	54	✓
Side wall to platform—	2	8	1/2	4	96	✓
Do—	2	24	2 1/2	8	1008	✓
Wall in front of shell room—	1	21	2 1/2	8	420	✓
Ramp from room to platform	1	60	3	5	900	✓
Deduction—					4474	✓
Doorway—	1	4	3	5/2	78	✓
Flat arch to above—	1	4 1/4	3	1/8	16	✓
Circular do—	1	10 1/2	3	2	63	✓
					157	✓
Remaining Brickwork in Sunkin					Cft 4317	✓
Flat arch work in chumam					Cft 16	✓
Circular arch work—					63	✓
Do— Do— to roof	1	18	10 1/2	2	378	378
Plastering—						
Room inside—	2	14	7		196	✓
Entrances of arch—	2	7 1/4	7 1/4		108 1/2	✓
Front including top—	1	26	15		390	✓
Sides of platform do—	2	20	10 1/2		588	✓
Do—	2	11	4		88	✓
Gambrel and soffits of doorway	1	17	3		51	✓
Top of roof over concrete—	1	16	21		336	✓
Total do—					1876	✓
Deduction—						
Doorway—	2	4	5 1/2		52	✓
Remaining plastering with Sunkin					Cft 1824	✓
					18 1/4	✓

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
For Half Shell room—						3749
Concrete—						
Room including the thickness of walls—	1	7	18 1/2	1 1/2	194 1/4	✓
Quarrels—	1	13 1/2	12	1 1/2	243	✓
One side of shell room—	1	8	2 1/2	1 1/2	30	✓
Do—	1	16	3 1/2	3	168	✓
Do—	1	8	5 1/2	3	132	✓
Side of platform—	1	10	3 1/2	3	105	✓
Do—	1	18	4	3	216	✓
Filling—	1	21 1/2	2 1/2	5	268 1/2	✓
In front of shell room—	1	10 1/2	1 1/2	3	204 3/4	✓
Filling—	1	10 1/2	4 1/2	3	141 3/4	✓
Do—	1	7	2 1/2	5	87 1/2	✓
Front wall—	1	30	3	1 1/2	135	✓
Entrances—	3	3	3	1 1/2	40 1/2	✓
Total Concrete with Sunkin & Sunkin Cft 1966						✓
Brickwork—						
Side walls—	1	14	3	7 1/2	297 1/2	✓
Front do—	1	13 1/2	3	12	486	✓
Room do—	1	6 1/2	3 1/2	7	159 1/4	✓
Side wall to platform—	1	8	1 1/2	4	40	✓
Do—	1	8	3	4	96	✓
Do—	1	35	1 1/8	8	735	✓
Entrances	3	2	2	12	144	✓
Front wall—	1	45	2	12	1080	✓
Do Slope—	1	36	2	6	432	✓
In front of shell room—	1	10 1/2	2 1/2	8	210	✓
Total Cft of Brick in Sunkin					3680	✓

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents	Total quantity of each description of Work.
		L.	B.	D.		
Plastering						
Side walls to platform—	1	36	10 1/2		378	✓
Do—	1	19	4		76	✓
Front wall—	1	45	14		630	✓
Do—	1	36	8		288	✓
Total Plastering					1372	✓
as Plastering with Sand & Lime					13 3/4	✓
For two Platforms—						
Concrete—						
Single Platform	1	30	20	3	1800	✓
Do for inner Platform					1800	✓
Total Concrete with latents in Sand & Lime					3600	✓
Brickwork—						
Steps—	1	35	2 1/2	3	262 1/2	✓
Front wall—	1	30 3/4	2 1/2	7 1/4	557 3/8	✓
Do—	1	30 3/4	2 1/2	7 1/4	557 3/8	✓
Total Cft. of Brick in Sand & Lime					1377	✓
Plastering—						
Steps—	1	35	7		245	✓
Front walls—	2	30 3/4	9 1/2		569	✓
Total Plastering					814	✓
as Plastering with Sand & Lime					8 1/8	✓
Mazagrine—						
Concrete—						
Room—	1	35	26 1/2	1 1/2	1365	✓
Entrances—	11	3	3	1 1/2	148 1/2	✓

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Front walls—	1	45	3 1/2		202 1/2	✓
Side walls—	1	29	3 1/2		130 1/2	✓
Over roof—	1	19	29	3	1596	✓
Front wall—	1	36	3 1/2		162	✓
Total Concrete with latents in Sand & Lime					3604	✓
Mazagrine						
Brickwork—						
Side walls—	2	34	3	13	2652	✓
Do—	2	19	3	13	1482	✓
Wall between passage & room—	1	21	3	6	378	✓
Door back—	1	21	1 1/2	1 1/2	47 1/4	✓
End walls of room—	2	12	3	7 1/4	522	✓
Do—	1	3	3	7 1/4	65 1/4	✓
Front walls—	1	45	2	13	1170	✓
Do—	1	30	2	13	780	✓
Entrances—	6	2	2 1/2	6	180	✓
Do—	6	2	1	3	36	✓
Do—	5	2	2	13	260	✓
Steps at the doorway in front—	1	4	3 1/2	1	14	✓
Do—	1	3	3 1/2	1	10 1/2	✓
Side walls—	1	20 1/2	3	4	246	✓
Do—	1	35	2 1/2	8	700	✓
Front wall sloping—	1	36	2	1 1/2	468	✓
Total					9011	✓
Deductions—						
Circular arch door—	2	7 1/2	3	1 1/8	50 7/8	✓
Doors—	1	1 1/4	3	1 1/8	12 1/2	✓
Light—	1	4 1/2	3	1 1/8	15 1/8	✓
Doorways—	2	4	3	7 1/2	180	✓

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Doorways—	1	3	3	7 1/2	67 1/2	✓
Doors—	1	2	3	2	12.	✓
Total Deduction Cft. — 34.0						✓
Remaining Brick work in Round Arch—						8663
Circular Arch work—						90 1/2
Circle Arch work—						
Arches—	1	21	16	2	672	✓
Passages—	1	40	9	1 1/2	648	✓
Doors—	1	14	6 3/4	1 1/2	141 3/4	✓
Total Arch work— Cft. — 1462						
Plastering—						
Front walls—	1	33		15	495	✓
Doors—	1	25		16	400	✓
Doors—	1	45		15	675	✓
Doors Sloping—	1	36		8 1/2	306	✓
Doors—	1	19		4	76	✓
Doors—	1	35		10 1/2	367 1/2	✓
Room—	2	15		6	180	✓
Doors—	2	12		7 3/4	186	✓
Doors—	2	12		6 1/2	156	✓
Doors—	2	3		7 1/4	43 1/2	✓
Passage—	1	95		6	570	✓
Doors—	2	4		7 1/4	58	✓
Entrances of Arch—	1	15		14	210	✓
Doors—	1	12		5	60	✓
Doors—	1	50		7	350	✓
Total Plastering Cft. — 4133						
Cft. — 4133						

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Doors—	1	4	7	"	28	3249
For major inc—	1	3	7	"	21	9
For Small inc—	1	4	6 1/2	"	26	
Total Country wall & Batter down Cft. — 75						✓
Painting Cft. —						2 1/2
Earth work— (Sand).						
Front—	1	248 1/2	42	15	156.555	✓
Wing—	1	133 1/2	33	16	704.88	✓
Slope—	1	197	42	1 1/2	124.11	✓
Slope—	1	284 1/2	40	8	91.040	✓
Slope—	2	95	40	8	60.800	✓
Filling—	1	248 1/2	60	5	74.550	✓
Total Sand work Cft. — 465.844						
Cft. — 17,253						✓
Clay work—						
Front—	1	248 1/2	42	1 1/2	5218 1/2	✓
Wing—	1	133 1/2	33	1 1/2	2202 3/4	✓
Slope—	1	284 1/2	45	1 1/2	6401 1/4	✓
Doors—	2	95	45	1 1/2	4275	✓
Total Clay work Cft. — 18097 1/2						
Cft. — 670						✓
Planting						
Slope—	1	248 1/2	42		10.437	✓
Doors—		133 1/2	33		4.405 1/2	✓
Slope—		290	45		13.050	✓
Doors—	2	95	45		8550	✓
Total Planting Cft. — 36.442						
Cft. — 364 1/2						✓

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Extra work executed in accordance with original orders when 4 gms platforms were intended for each Battery.						
Concrete.						
Platforms—	2	30	20	1/2	600.	✓
Half shell room—	1	7	18	1/2	189.	✓
do Verandah—	1	13 1/2	12	1/2	243.	✓
Full shell room—	1	14	18	1/2	370.	✓
do Verandah—	1	27	12	1/2	480.	✓
Magazine—	1	35	26	1	910	✓
Entrances.	3	3	3	1	27	✓
Front wall—	1	45	3	1	135.	✓
do—	1	19	3	1	87.	✓
do—	1	44	7 1/2	1/2	1515	✓
do for old plan. }	1	30	19 1/2	2	1170.	✓
Total Cft of concrete stone jilly and bricks					6040.	
Quicksand.						
Side wall to shell room—	2	14	3	1	84	✓
do Rear— do—	1	13	4	1	52	✓
Front— do—	1	27	3	1	81	✓
Total Cft—					217.	
Earth work.						
	1	60	40	10	24000	✓
	1	3 1/2	10	8	2720	✓
	1	36	30	4 1/2	4860.	✓
Total Cft of earth work—					31580.	
					or	1170.

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Grange - at Right Angle Battery		56	4 1/2	2	140	3749 10
		20	1 1/4	1	25	
		2	1/2	1	21 1/2	
Total Cft of concrete stone jilly and bricks					166.	X
Nasir Battery -						
Extra work executed in accordance with original orders when 4 gms platforms were intended for each Battery						
Concrete						
Platforms	2	30	20	1/2	600	✓
Half shell room	1	7	18	1/2	189	✓
do Verandah	1	13 1/2	12	1/2	243	✓
Shell shell room	1	14	18	1/2	370	✓
do Verandah	1	27	12	1/2	486	✓
Total Cft of concrete stone jilly and bricks					1896	X
Earth work	1	26	16	3	1248	✓
	1	7 1/2	10	3	225	✓
	1	17	14	1/2	357	✓
Total Cft of earth work					1830	X
Grange (small) at Nasir Battery						
		6	3	1/3	24	✓
		6	1 1/3	1 1/4	10	✓
Total Cft of concrete stone jilly and bricks					34	X

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Drainage piles of— Gwynne (Page)		8 1/2	5 1/2	63 3/4	✓	
		7	2 1/2	21 1/4	✓	
Total Pile Stone Cyls—						85.
Construction of Road Embankment from the Tahiti Bridge towards the South end of Battery						
		17	4 3/4	51	✓	
		33	5 1/2	226 7/8	✓	
		45	3 1/2	17 1/2	✓	
		27	5 1/2	155 1/8	✓	
Total Earthwork—						Cy. 531.
Planting - Crespers—		122	10	1220	✓	
				Total Cy. 1220.		
Saint George's 3 Sept 1878						
J. Maitland Executive Engineer in Charge Batteries						
M. Thompson Major & District Engineer, India						

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area of Contents.	Total quantity of each description of Work.
		L.	B.	D.		
<i>Specimen.</i>						
<i>The Executive Engineer</i>						
<i>on duty</i>						
<i>Battis.</i>						
<i>No. 245 of 1878-79.</i>						
<i>Dated 3rd 3</i>						
<i>Ref. Sept 1878.</i>						
<i>Batteries.</i>						
<i>Towards Estimate No. 31578.</i>						
<i>for Constructing Right of Way</i>						
<i>and Paper Guide</i>						
<i>Batteries on the Sea Beach.</i>						

No. 244 of 1877-78. Of 7th September 1878

Head of Service *Imperial*

Fund *Ordinary.*

Class *Original work.*

Main Head *Military.*

Sub-head *Fortification.*

Name of Work *Work executed at Chis Battery*

as per District Engineer's No. 3127 of 24th August 1878

Amounting to Rupees *9000.*

To be carried out

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
<i>Loc wall.</i>						
<i>Excavation.</i>		147	3	3	1403	<i>ft. 129.17</i>
<i>Rough Stone Paving under Concrete.</i>		368	3	1	1104	<i>ft. ✓</i>
<i>Concrete.</i>		368	3	1/2	1656	<i>ft. 1656.</i>
<i>Foundation.</i>						
<i>Bricks in chimney work.</i>		354	1/2	1/2	516	<i>✓</i>
<i>Loc wall.</i>		354	2	1/2	1113	<i>✓</i>
		354	1/2	1/2	266	<i>✓</i>
		25	2 1/2	1/2	37	<i>✓</i>
		25	2	1/2	29	<i>✓</i>
		25	1 1/2	2 1/2	93	<i>✓</i>
		25	1 1/4	2	62	<i>✓</i>
<i>Total Bricks in chimney work</i>						<i>1416. ✓</i>
<i>New Magazine.</i>						
<i>Excavation.</i>		45	23	13 1/4	12453	<i>ft. ✓</i>
						<i>ft. 552.</i>
<i>Concrete.</i>		10	4	2	80	<i>✓</i>
		27	6	2	324	<i>✓</i>
<i>Foundation.</i>		5 3/4	4	2	46	<i>✓</i>
		10	16	1	160	<i>✓</i>
<i>Total Concrete</i>						<i>610. ✓</i>

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Brick work.		11	1	2 1/2	27 1/2	✓
		11	1 1/2	1 1/2	17 1/2	✓
		Total Cft.			45	✓
Earth work in filling up the excavation made for the new Drainage		45	23	13 1/2	13455	582 Cft.
Rebuilding wall lately dismantled for doorway to the new Drainage		7 1/4	3 1/4	1 1/4	303	✓
		10 1/2	2 1/4	1/2	12	✓
		Total Brick in chimney Cft.			315	✓
Drain Excavation		50	5	2	500	14 Cft.
Concrete for foundation		50	5	1	250	250
Brick in chimney work						
Side walls	2	50	1 1/4	1	62	62
Dr. Arch work	1	50	5 1/4	1 1/4	327	✓
		Total Arch work			92	327
Gravels stone fixed in the old drain						8.16
Dismantling Latrines						
Front wall foundation		140	1 1/2	3	130	✓
Superstructure		140	1 1/4	5 1/4	910 3/4	✓
Criss walls	2	20 1/2	1 1/4	6	307 1/2	✓
Do	2	6	1 1/4	7	105	✓
Steps	2	9	3	2 1/2	135	✓
		Total dismantling Cft.			2096 1/4	✓

Detail of Work.	Number.	MEASUREMENTS IN FEET.			Area or Contents.	Total quantity of each description of Work.
		L.	B.	D.		
Old gun platform						3749
Dismantling	5	3 1/4	-	4	1200	17 1/2
Constructing a new gun platform						6200 Cft.
Concrete for platform	2	Area	1/2	2	4152	✓
Under platform and battery		23	3	2	130	✓
Do		14	2	2	56	✓
Do						1346
Sett concrete with old brick jelly in chimney						5856 Cft.
Excavation	2	90	-	3	210	✓
Brick work						
Underpinning battery wall		21	2 1/2	4 1/2	236	✓
Do		16	1 1/2	4	96	✓
Do		18	7 1/2	3 1/2	110 1/4	✓
Do		33	1 1/2	3 1/2	173	✓
Do		20	1 1/2	3 1/2	105	✓
		Total Cft.			720 1/4	✓
Dismantling and rebuilding Battery wall						
		10	1 1/2	10	150	150
Dismantling wall						
		12	2	3	72	✓
Rebuilding Brick wall		13 1/2	1 1/2	5 1/2	111	✓
		15	1 1/2	2	45	✓
		Total Brick work Cft.			265	✓

10066

Govt. of (1878) Madras.

PUBLIC WORKS.

To

Date

Issued

Recd.

Encl.

G. O., 24th Sept. 1878, No. 37490.

Nos. 273 & 274

Lighthouse, Napier & Clive
Batteries

Estimates amounting to
Rs 43,540 for the — same.
— turned; the difference
from the original estimates
being credited to Reserve
under Indly.

Encl. 168.