

- (1) பக்கங்களின் எண்ணிக்கை _____
 (2) புத்தகத்தின் திருப்பிய நாள் _____
 (3) ஆதாரக் குறிய்ப்பவர் கருக்கொப்பம் _____

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PWD துறை

அரசாணை எண். மு. கோப்புத் தாளு எண்.	573 (W)	அச்சகம் பலவகை
நாள்:	11-8-1877	199

மத்தியக் கல்வித் துறை அமைச்சர் அலுவலகம்.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

11th August 1877, No. 573 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 113. From Captain J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 18th July 1877, No. 279.

I HAVE the honor to submit for sanction two plans and eleven estimates for work done to all the buildings composing the Government House at Ootacamund, with the exception of the new building designed by the Consulting Architect, for which estimates will follow.

2. The accompanying plans and estimates have been kindly examined by His Grace the Duke's Private Secretary, who will I am sure give His Grace every explanation that he may need.

No. 114. ORDER THREEON, 11th August 1877, No. 573 W.

Heads of Service.—Provincial.
Fund.—Ordinary.
Class.—Original Works.
Main-head.—Civil Buildings.
Sub-head.—N, Government Houses and Residences.
Work.—Government House buildings at Ootacamund.
Amount.—Rupees 21,500.
Being carried out by the Public Works Department.

THE plans and estimates as particularized below aggregating Rupees 21,500, for alterations and improvements to the Government House buildings at Ootacamund, are sanctioned.

	District Engineer's Estimates.	Estimates corrected in the Chief Engineer's Office.	—
1. Additions and alterations to Upper Norwood occupied by the Governor ...	RS. 5,750	RS. 5,750	NO. 113
2. Additions and alterations to the kitchen to Upper Norwood ...	3,180	3,160	113
3 & 4. Cost of covered passage to connect Upper Norwood with kitchen, &c. ...	2,960	2,960	113
5. Cost of Police Guard rooms ...	1,170	1,180	113
6. Additions and alterations to Lower Norwood occupied by the Governor's Staff ...	610	610	113
7. Additions and alterations to Garden Villa occupied by the Private Secretary ...	2,080	2,030	113
8. Repairing and white-washing the house occupied by the Governor's Cook ...	100	100	113
9. Alterations and repairs to the house occupied by the Coachman ...	860	860	113
10. Alterations and repairs to the stables ...	1,370	1,370	113
11. Water-supply to Government House ...	2,420	2,420	113
	20,700	20,700	
No estimates furnished. { Constructing two latrines for servants ...	1,200	1,200	113
{ Putting up flag-staff with ropes, &c., and ten teak-wood lamp posts ...	180	180	113
	22,080	22,080	
Deduct value of old materials utilized, &c. ...	580	580	113
Total estimate ...	21,500	21,500	

2. The District Engineer will submit a statement of expenditure on the works showing separately outlay up to 31st March and subsequent to that date, as well as the further sum proposed to be spent during the current official year. On receipt of this information steps will be taken for the appropriation of funds.

2. The sanction herein accorded has been registered as Provincial No. 123 B of 1877-78.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Nigeria.
" Examiner of Public Works Accounts
" Financial Department.
Military Secretary to His Grace the Governor

Detailed Estimate No. 1877-78

Nigeria District

work. Cost work done (additions & alterations) to building

Now under occupation by the Government

household

to L B & Contents

Particulars

1 11-6 2-0 12-0 276-0 Pricing wall for Archway to the right of building
2 6-0 1-6 10-0 180-0 Removing roof walls
1 25-6 1-9 8-0 387-0 Removing wall opposite to Archway
2 10-0 1-6 6-9 202-6 Removing walls to the right of the building
1 4-0 1-6 6-6 39-0
1 28-0 1-9 5-9 281-9 New wall facing the kitchen
1 7-6 1-9 12-0 157-6 Removing doorway & turning an archway to Paper
1 7-6 2-0 12-0 180-0
3 5-0 1-9 8-0 210-0 Making openings for doorways
1 6-0 1-3 8-0 60-0 Removing walls to the left of the building
2 4-0 1-9 7-0 98-0 Making openings for doorways
1 24-0 20-0 0-9 360-0 Removing Lining
2401-9 Total cost of breaking down walls removing
debris.

1 36-0 1-9 3-0 189-0 Foundation & Basement brick walls
1 41-0 1-3 3-0 153-9
1 22-3 1-2 11-6 298-6 Walls of entrance & side rooms to the right of the building
1 9-9 0-9 11-6 34-1 Partition wall between entrance & side rooms
1 17-6 0-9 11-9 154-3 Partition wall

1 11-3 8-9 12-0 101-3 And wall to the right of the building
 1 7-10 0-9 12-0 70-6 crop wall
 1 7-10 1-2 7-6 68-6 wall opposite to
 1 7-6 1-2 9-0 78-9 side walls
 1 16-0 1-2 8-0 149-4 wall opposite to archway
 1 6-0 0-9 8-0 36-0 crop walls to the left of the building
 2 7-10 1-6 6-0 141-0 raising walls
 2 7-0 2-0 0-9 21-0 building up sides of large archway
 2 7-6 2-0 0-9 22-6 for small archway
 2 7-6 1-9 0-9 19-8
 2 8-6 1-6 6-3 68-7 blocking up doorway
 1 4-0 2-0 2-0 16-0 Chimney
 1 8-0 6-0 2-3 108-0 steps
 2 7-0 1-0 2-0 28-0 Parapets to

80-0 repairing the building here & there
 1999-8 Total

339-8 Deduct

1660-0 Total left of brick in chimney

180 Cft. of brick in chimney

42 Squares of Plastering new work & interior of the building here & there

396 Squares of white washing, new work, ceiling and the outside of the whole building and the whole of the ground to be

1 17-3 19-0 327-9 Fencing to new work

1 12-0 8-6 102-0

429-9 Total sqrs of Fencing

1 120-0 26-0 8120-0 main building

1 62-0 12-0 744-0

3864-0 Total sqrs of turning tiles, allowing for new tiles replacing bamboo reeds & mats whenever required

1 7-6 8-0 62-0 Total sqrs. of corrugated iron roofing done for the new bath rooms

1 17-6 7-10 137-1 Entrance Passage

1 9-9 7-10 76-4 New room

1 10-6 7-10 82-3

1 16-0 6-0 96-0 new room, rear of large archway

1 11-9 6-0 270-6

1 4-0 6-0 24-0 Rooms to the left of the building

486-2 Total sqrs of new work flooring to complete

Abstract Estimate No 1977-78

Alpin District

work. Cost of work done (additions & alterations) to Alpin
Now occupied by the Government

Qty Particulars Rate Per Unit Total

2402 cfs of breaking down walls & removing
debris 10 .. 240 32

1660 cfs of brick in chumam 40 .. 664 ..

180 cfs of Archwork in chumam 45 .. 81 ..

42 cgs of plastering new work and
putting of the building here & there 10 .. 420 ..

396 squares of white washing (2 coats) to
work, ceilings and the outside of
the whole building & servants line 14 .. 554 8

430 sqft of tennacing with brick masonry,
brick jelly and 2 coats of plaster
including wooden 130 .. 559 ..

3864 squares of turning tiles of the inside
building, allowing for replacing tiles
bamboo reeds & mats when necessary 10 .. 386 4

62 sqft of corrugated iron roofing &c
complete to one of the new rooms 80 .. 49 7 2

486 sqft of New Lank flooring to complete 100 .. 486 10

100 sqft of repairing Lank flooring 60 .. 60 ..

210 sqft of Pannelled doors & glazed skylights 2 40 10 478 1

repairing doors and windows 30 ..

1750 sqft of wood oiling (one coat) to the
interior of doors and windows 18 .. 26 4

830 sqft of green painting (one coat) to the
outside of doors & windows 2 .. 16 97

50 sqft of brick concrete flooring to
one of the new rooms 32 .. 16 ..

63 running feet of skirting boards 1 .. 63 ..

106 squares of Papering walls labour only
with paste 12 .. 79 8

Putting up shelves in main building
and wine godowns of plankwood 250 ..

connecting window at on plan into
a doorway 10 ..

removing present Passage to Kitchen 10 ..

10 door Locks 28 .. 28 ..

replacing broken panes of glass 40 ..

25 yards of cloth for ceiling 4 .. 100 4

28 sqft of zinc sheet for bath rooms 4 .. 112 ..

Fixing curtain rods, brackets, hooks
for lights &c 15 ..

repairing two sentry boxes with canvas 10 ..

Cost of wall paper 370 ..

Turning Sides & white washing the
wine godowns &c 100 ..

Fixing stove with iron pipe to one
of the new rooms 5 ..

Carriage in from piping from
Wellington including laying &c. 370...

Total 522459

Sundries 525107

Total Estimate Rupees 5750.

John Morris

Captain R.C.
District Engineer

St. Augustine Office
Cobacammund 18 July 1877

Detailed Estimate No. of 1877-78

Alpine District

Work. Cost of work done (additions and alterations)
to the kitchen to supper room

Measurements
No. L B & Contents

Particulars

1 12-0 1-3 10-0 150-0 wall

1 12-0 2-0 10-0 240-0 fire place

1 3-0 3-0 6-0 54-0 chimney above roof

3 4-0 1-3 6-9 101-3 lining downing

545-3 Total cft of breaking down walls & removing debris

1 34-0 22-0 748-0 roof of existing cookroom

748-0 Total sq ft of dismantling roof

1 118-0 2-3 2-6 663-9 Foundation to walls

1 12-0 2-6 2-6 75-0 Fire place

1 7-6 2-6 2-6 46-10

1 8-0 2-6 3-0 6-0 Platform for stove

1 8-0 4-0 2-6 30-0 men

1 118-0 1-9 1-0 206-6 Basement to walls

1 12-0 2-6 1-0 30-0 Fire place

1 7-6 2-6 1-0 18-9

2 28-0 1-3 11-0 378-0 Side walls of centre room

1 14-6 1-3 11-0 181-3 End walls

1 21-3 1-3 6-0 159-4 wall in side room

By 11 August 77 J.B.K. 113

1 7-0 1-3 8-0 70-0 cusp wall at bay 2
1 7-6 2-0 3-0 45-0 Fire place

1 12-0 2-0 10-0 240-0

1 2-6 2-6 10-0 62-8

2 2-0 2-0 8-0 64-0 Chimney above roof
2496-4 Total

110-4 deduct

2386-0 Total cft. of brick in chimney

3 3-6 1-3 2-9 9-10 Sums

1 6-0 1-3 0-9 8-7

3 4-0 2-0 1-2 28-0 windows

43-5 Total Cft. of Archwork in chimney

1 10-0 1-3 2-6 31-3 gable end

1 21-3 1-3 6-0 167-4 wall of side room
2 7-0 1-3 3-0 140-0 end wall of side room

2 3-0 1-3 2-0 112-0 below main windows
2 8-0 1-3 1-0 20-0 sides of main windows

365-7 Total

47-7 deduct

318-0 Total cft. of brick in end

30 squares of plaster

30 squares of white wash

2 14-0 7-0 196-0 Office & Landing

1 20-0 7-0 140-0 Scullery

1 86-3 12-0 423-0 Cook room

1 14-3 7-0 99-9 Pasting & Baking

1 4-6 7-0 31-6 Passage

890-3 Total sq. ft. of flooring with Parquet on edge & finish

159-3 40-0 1570-0 the whole building

1570-0 Total sq. ft. of roofing with Oakwood rafters,
bamboo rafters & slates and Pantiles

3 3-0 6-0 54-0 Sums

1 2-9 6-0 16-6

2 2-3 4-9 21-4 windows

2 2-0 2-0 8-0

99-10 Total sq. ft. of Sums & windows

Abstract Estimate No. 1877-78

Malaga District

work- Cost of work done (additions & alterations) to the
Kitchen to Upper Storewood

Qty	Particulars	Rate	Per	Amount	Total
545	cft. of breaking down walls removing debris	10	..	net 548	
748	sq. ft. of dismantling roof	6	..	sq. 4488	
2386	cft. of brick in chimney	40	..	net 95440	
44	cft. of archwork in chimney	45	..	1980	
318	cft. of brick in end	24	..	7632	

30	Sq. ft. of Plastering	6	Age	180	..
30	Sq. ft. of white washing	14	..	26	4
890 1/2	Sq. ft. of flooring with brick on edge				
	Skelms to Kitchen and pointed	25	Age	222	8 1/2
1570	Sq. ft. of roofing with Lakwood rafters, bamboo rehers, mats & Pantiles	65	..	1020	8
100	Sq. ft. of Batten doors & glazed windows - 1	8	Age	150	..
	Excavation of site &c			20	..
2	Door Locks	2	8	10	..
				5	..
	Total			2894	31
	(10 per cent) Sundries			285	12 1/2
	Total Estimate Rupees			3180	

Foundation, Basement, archwork and part of superstructure of brick in chunam, the rest of brick in mud, plaster and whitewashed - roofing of Lakwood rafters, bamb rehers, mats and Pantiles.

Relevant

Dist. Engr's Office
Cobacammund 18th July 1877

Captain R. E.
District Engineer

By C. H. August J. D. B. 11/3

Detailed Estimate No. 1877-78					
Nitgiri District					
Work - Cost of constructing Passages to connect Upper Norwood with the Govt. House and Kitchen					
Measurements			Particulars		
No. 2 13 & Contents					
52	1-3	1-3	1-3	121-10	Foundation to Posts
				121-10	Total c.f. of Brick in chunam
52	10-0	0-4	0-4	57-9-4	Posts
1	330-0	0-4	0-5	45-10-0	Bricksummer
				103-7-4	Total c.f. of Lakwood wrought and put up
1	165-0	11-0		1815-0	Passage
				1815-0	Total Sq. ft. of tiled roofing over Lake rafters, collar pieces, bamboo rehers & mats
1	165-0	7-0	0-3	288-9	flooring to covered Passages
				288-9	Total c.f. of metalling
2				10 2/3	C. yards of
1	215-0	6-6		1352-0	side of passage from Upper Norwood to Govt. House
				1352-0	Total Sq. ft. of bamboo matting with window openings at intervals including bamboo posts and green painting

Abstract Estimate No. 2077-28

Nilgiri District

Work. Cost of constructing covered Passage to connect Upper Norwood with the Govt. House and Kitchen.

Hy Particulars Rate Per Amt Total

122 Cft. of Brick in chimney — 40 .. 100 ft 48 129

104 Cft. of Leankwood wrought and put up 5 .. cft 520 ..

1815 Sq. ft. of roofing with Leank rafters.

Collar pieces, bamboo rafters & mats

and Partiles — 65 .. Sq. ft 1179 12.

1352 Sq. ft. of enclosing Passage on both side

with bamboo mats, with open windows at

internals including green paint &c. — 4 .. Sq. ft 338 ..

11 C. yards of metalling the Passage walks 2 4 .. C. yds 24 12.

Total — 2111 49

Sundries — 208 113

Total Estimate Rupees — 2320.

The roofs of the Passages to connect Upper Norwood with the Govt. House and Kitchen are to be supported on Leankwood Posts, Krepsummers, rafters & collar pieces. The side of the passage connecting Upper Norwood with the Govt. House are enclosed with bamboo mats, with windows openings at internals. The whole of the Passage walks are metalled.

Engg. Office
Cobacumund
July 1877

Captain R. C.
District Engineer

Detailed Estimate No. 2077-28

Nilgiri District

Work. Cost of constructing a Covered Passage to connect the Kitchen with the Govt. House

Measurements
L B S Contents

Particulars

24 1-3 1-3 1-6 56-3 Foundation to Posts
56-3 Total cft. of Brick in chimney

24 10-0 1-4 1-4 26-8-0 Posts

1 85-0 1-4 1-5 11-9-8 Krepsummer

24 5-6 1-3 1-4 11-0-0 Principal rafters

12 8-0 1-2 1-3 4-0-0 Collar pieces

4 42-0 1-2 1-3 8-9-0 Purlins

4 42-0 1-2 1-1 2-4-0 Battens

64-6-8 Total cft. of Leankwood wrought & put up

44 7 ft. sheets perforated iron

44 sq. ft. of continuous iron roofing

1 44-0 7-0 1-3 77-0 Passage walk

77-0 Total cft. of metalling

2 3 C. yards of

Abstract Estimate No. of 1877-78

Nilgiri District

work. Cost of constructing a Covered Passage to connect the Kitchen with the Govt. House

Qty	Particulars	Rate	Per	Amount	Total
57	cft. of Brick in Chumam	40	..	1040	22 12 9
65	cft. of Teakwood wrought and put up	5	..	325	1
44	7 ft. Sheds of corrugated Iron &c	5	..	220	..
44	running feet of continuous iron siding	5	..	220	..
3	C. yards of metalling the Passage walk	12	4	48	6-12-5
				Total	596-8-9

Sundries 43-7-3

Total Estimate Referred 640-11-12

The roof of the Passage to connect the Government House with the Kitchen is of corrugated Iron Sheds or Teakwood scantlings and Posts. The Passage walk is metalled.

St. Engr's Office
Nilgiris
Ad. Cairns
18th July 1877

Ch. H. Morris
Captain R.B.

District Engineer

Detailed Estimate No. of 1877-78

Nilgiri District

work. Cost of Constructing a Police Guard Room to the Govt. House

Measurements	Contents	Particulars
5 2-2 2-2 2-6 5-4-2	Foundation to Pillars	
1 47-4 1-9 2-6 207-1		
1 7-0 2-0 2-6 35-0	Chimney	
5 1-8 1-8 0-4 1/2 5-2	Basement to Pillars	
1 47-4 1-3 0-4 1/2 22-2	walls	
1 6-6 1-9 0-4 1/2 4-3	Chimney	
1 1-2 1-2 11-0 15-0	Pillars	
2 1-2 1-2 10-0 27-3		
2 1-2 1-2 8-0 21-9		
1 9-0 0-9 2-0 13-6	centre wall	
2 8-6 0-9 2-0 25-6	End walls	
2 12-0 0-9 2-0 36-0	side walls	
1 6-0 1-6 11-0 99-0	Chimney	
1 3-0 2-0 8-0 48-0		

613-2-10 Total

33-10 deduct

580-6 Total cft. of Brick in chumam

2 3-3 1-3 0-9 6-1 doors

2 3-0 1-3 0-9 5-8 windows

11-9 Total cft. of archwork in chumam

1 9-0 0-9 9-0 27-0 centre wall
 2 8-6 0-9 7-6 95-7 End wall
 2 12-0 0-9 6-0 109-0 Side walls

230-7 Total cfr of brick in mud

11 Squares of Plastering

11 Squares of white washing

2 12-0 10-0 240-0 Rooms

1 23-37-0 162-9 Verandah

402-9 Total sq. ft. of flooring with brick concrete and mud well rammed

1 15-0 26-6 397-6 Rooms

1 15-0 4-6 67-6 Ventilator (ridge)

465-0 Total sq. ft. of roofing with Teakwood rafters, reapers, shingles &c

1 23-3 8-0 186-0 Verandah

186-0 Total sq. ft. of corrugated iron roofing &c complete

8 8-0 0-4 0-2 4-5-4 Posts to Verandah

1 23-6 0-2 1-4 1-7-7 Breppumner

6-0-11 Total cfr of Teakwood in night shut up

Abstract Estimate h^e of 1877-78

Nilgiri District

Work - Cost of constructing Police guard rooms to the Government House

Qty	Particulars	Rate	Per	Amount	Total
580	cfr. of brick in chumam	40	..	100 cfr 232	..
12	cfr. of anchork in chumam	45	..	..	5 64
230 1/2	cfr. of brick in mud	24	..	..	55 32
11	Squares of Plastering	10	..	sq. ft	110 ..
11	Squares of white washing	..	4	..	9 10
403	Sq. ft. of flooring with brick concrete and mud well rammed	5	..	sq. ft	20 24
465	Sq. ft. of roofing with Teakwood rafters, reapers & shingles including Carpenter's hire &c	78	..	..	362 112
186	Sq. ft. of corrugated iron roofing &c complete	80	..	..	148 129
6	cfr. of Teakwood in night shut up	5	..	cfr	30 ..
2	Teakwood Accountant's hire	5	..	each	10 ..
2	Teakwood Batten doors 2'6" x 6'0"	25	..	each	50 ..
1	Teakwood Bracket for Clock	..	..	..	2 ..
2	Teakwood Batten windows with bars	10	..	..	20 ..
15	running feet of contiguous iron ridges	8	..	sq. ft	7 8
	Excavating foundations &c	..	..	..	2 ..
Total					1064 119

10 p. Cent Sundries 125 43
Total Estimate Rupees 1170 ..

Foundations, Basement, anchork and chiming of brick in chumam; walls above floor of brick in mud, plastered with chumam and white washed; flooring of broken brick bats and mud well rammed - Roofing

Roofing of Teakwood rafters, rakes & shingles;
Roofing to Verandah Acorned Iron Sheets &c

John Horrocks
Captain R.E.
District Engineer
C. P. Office
Obtained 18th July 1877

Detailed Estimate No. 1 of 1877-78

Nitjin District

Work - Cost of work done (additions & alterations)
to Lower Norwood

Measurements
No. 1 13 & Contents

Particulars

1 8-0 1-6 6-0 72-0 Removing present wall from room
1 2-6 1-6 7-0 26-3 Piercing wall for doorway
1 3-0 1-6 3-0 13-6
1 3-0 1-6 3-0 13-6 for skylight
2 6-0 1-6 2-6 45-0 Removing Basin stands
4 4-0 0-9 3-0 60-0 Removing honey comb work
230-3 Total cft. of breaking down walls and
removing debris

4 4-0 1-2 5-0 93-4 Raising wall in place of open honey comb work
1 7-6 1-2 6-9 59-1 Lengthening walls
2 7-6 1-9 1-6 39-5 Foundation & Basement to
1 1-6 1-3 6-9 2-6 Pillars
1 2-0 0-3 1-6 1-9 Foundation & Basement to
1 2-0 1-6 3-0 9-0 Rebuilding a portion of partition wall that had been
1 3-6 1-0 15-0 52-6 Chimney
1 4-0 1-0 1-6 6-0 Foundation & Basement of
1 3-0 1-6 6-9 30-5 Blocking up doorway
1 17-6 1-6 0-9 19-8 Brickwork round doorway
1 14-0 1-6 0-9 15-9

25-0 Repairing a portion of the building here & there

11/11/77
11/11/77
11/11/77

353-5 Total

50-5 deduct

303-0 Total cfr. of brick in chumam

30 Total cfr. of anchwork in chumam

6 squares of Plastering new work and portions of the building here & there

216 squares of white washing the building inside and outside

1 13-0 8-0 104-0 Lark flooring to new room
104-0 Total sq. ft. of Lark flooring &c. complete

12 sq. ft. of Lark flooring

1 8-0 6-6 52-0 Total sq. ft. of flooring with brick on edge and plastered with sonkeu

1 18-0 16-0 270-0 new room

1 10-0 9-6 95-0 Passage

365-0 Total sq. ft. of turning tiles, allowing for new tiles, bamboo where & mats wherever required

10 7-6 0-3 0-4 1/2 7-0-4 rafters

5 6-9 0-3 0-4 1/2 3-2-4 collar pieces

10-2-4 Total cfr. of teakwood during h.t. & put up

13-0 1-6 4-6 skylight

12-6 3-0 7-6 window

12-6 6-0 15-0 door

27-0 Total sq. ft. of doors & windows &c

Abstract Estimate No. of 1877-78

Nitgiri District

work. Cost of work done (additions and alterations to Lower Norwood

Particulars Rate Per Amt Total

230 cfr. of breaking down walls & turning tiles 8 ... 18 64

303 cfr. of brick in chumam 40 ... 121 32

30 cfr. of anchwork in chumam 45 ... 13 84

6 squares of Plastering 8 ... 48

216 squares of white washing the whole building inside and outside 14 ... 189

104 sq. ft. of Lark flooring &c. complete 102 ... 106 13

12 sq. ft. of repairing Lark flooring 60 ... 7 32

52 sq. ft. of flooring with brick on edge and plastered with sonkeu 32 ... 16 102

365 sq. ft. of turning tiles, allowing for new tiles, bamboo where & mats wherever required 8 ... 29 32

10 1/2 cfr. of teakwood wrought & put up 5 ... 51 40

27 sq. ft. of doors and windows 2 ... 54

Repairing doors and windows 10

1 Teakwood Table 6-6" x 2-6" x 3-0" 15

2 Teakwood shelves 6-6" x 1-0" on brackets 5 ... each 10

20 ... 80

30 yds of brick in soaker channel 35 ..
 4 Door Locks 2 8" each 10 ..
 3 Leaked Fenders lined with tin to chimney 2 8" each 6 ..
Total 740 73
 Sundries - 69 89
Total Estimate, Rupees 810

Santhorant
 Captain R. R.

District Engineer

Dist. Engr's Office
 Coimbatore
 18th July 1877

4011 Aug 1877, No. 113

Detailed Estimate of 1877-78
 Nilgiri District
 Work - Cost of work done (additions & alterations)
 to Garden Villa

Measurements	Contents	Particulars
21-6 1-3 1-6 5-7	Opening windows in Bath rooms	
1 3-0 1-3 6-6 24-4	Doorway in	
1 4-6 1-3 7-3 40-9	A. D. C. room	
1 3-3 1-3 4-0 16-3	Windows in	
1 4-6 1-3 7-3 40-9	Opening doorway in Bath room	
2 4-0 1-3 4-0 40-30	Windows in	
<u>167-8</u> Total cft of breaking doors &c		
1 3-3 1-3 6-9 22-8	Blocking up existing doorway	
1 2-6 1-3 6-3 19-6		
2 4-0 1-3 0-9 7-6	Building up sides of new window in Bath room	
3 20-0 1-3 0-9 56-3	Sides of new doorways	
1 12-0 1-3 0-9 11-3	Windows	
2 9-0 1-3 0-9 16-10	in Bath room A. D. C.	
1 6-3 0-9 7-6 35-2	Partition wall to Bath rooms	
1 5-0 2-9 1-0 13-9	Plat form for stone	
1 10-0 1-0 1-10 10-0	Steps	
25-0	Repairing portions of building here and there	
<u>228-11</u>	Total cft of brick in chimney	
20	Squares of Plastering new work and portions of the building here and there	

90 Squares of whitewashing the whole building

1 14-012-d 168-0 A.D. L's rooms

2 11-36-9 . 75-11 waiting
1 11-66-2

11-66-0 69-0 Maids

312-11. Total sqft of new track flooring.

1 18-0 11-0
1 18-0 6-0

14-06-9
14-04-0

14-04-0 . 16-0

16.62.0 13-0.2.3.

1 20-04-6 90-0

14-63-6 " 50-2

455-8 Total sq ft of flooring with brick in edge of painted

29-36-0
111-0 Total sqft of flooring with brick in edge and
 plastered with scoria to Bathrooms—

1 13-07-0-50
92-0 Front verandah of A. B. L's room
 Total cost of flooring with square bricks & painted
 1 40-00-00-00

1 45-0 20-0 900-0 Total sq ft of turning tile, allowing for new tiles
bamboo, reapers and mats

1 20 1-6 0-3 0-2 1-3-0 Brackets for shelves -
1 78-0 1-0 0-1 6-6-0 Plb. h
2 14-0

2 14-00-50-7 6-0-0 Planks to

1 21-00-4 0-3 1-9-0 Replacing tie beams to drawing room
2 20-00-3 0-3 1-9-0 Frame work of

2 20-0 0-3 0-3 2-6-0. Curliues to roof of Back passage between A. D. G's room and kitchen.

220-00-20-10-6-8. Batten to roof of Back passage between A.D. G's room and kitchen.

19-4-4 Total cft of teakwood wrought and put up
10 corrugated iron sheet 6' x 2'-3" for roof of Back passage —

23-0 6-6 . 39-0. Dot in A. D. G's room

1 2-6 1-6. 3-9. Windows in A.D. C's rooms

22-3 2-8 10-11 13 pithy poems

12-0 5-0 . 12-0 Boat in Bath room

2 1-0 1-0 . 2-0. Windows

32-01-6 . 7-6 Skylights in A. D. C's rooms and maids rooms

74-4 Total sqft of doors and windows

3 8-8 0-3 0-5 2-6-11. *Costs*

2 12-3 0-4 0-3 2-0-6: *Purline*

3 1-6 0-4 0-3 0-4-6 Brackets

2 12-30-2021 0-4-1 Buttons

5-4-0 Total

~~10-8-8-6-6-6-6-6~~

~~7-8-0~~ ~~Wastage~~
~~4-0-0~~ Total cft of teakwood wrought and put up
6-8 feet sheets of corrugated iron

28-30-30-5 1-8-7 Procto

25-60-30-41-1-0 Purkins

26-60-20-1 0-2-2 Batters

21-60-30-4 0-3-0 Brackets

3-2-9 Total cfr. of Leekwood wrought 80 00

80 4 4

Plastered, with wooden shutters to receive galvanized
2 buckets for draining off rainwater. 20 " " 80.

4 Tinning tiles &c ————— 6
 4 galvanized iron buckets ————— 2.50
 3 white washing the whole building ————— 44
 3 Partitions 8' x 6' of Lakwood Posts and rails ————— 10
 4 Australian wood plank ————— 30
 4 7 ft. sheets corrugated iron to Coachman's House ————— 20
 Total ————— 367 4

Sundries ————— 32 12 5

Total Estimate Rupees ————— 400

Grand Total Estimate Rupees ————— 2080

John Horant

Captain R. C.
District Engineer

Sd/- Engr's Office
 Nilgiris-
 Coimbatore 18th July 1877

11 August 1877
 Sd/- 113

Detailed Estimate No. 1877-78

Nilgiri District

Work Cost of work done (alterations & repairs) to the
 House occupied by the famous Coachman —————

Measurements
 L B & Contents

Particulars

50 Cfr. of Brickwork by repairing different
 portions of the building

1 Square of plastering portions of the building
 here and there

55 Squares of white washing the whole building
 and ceiling & roof

1 16-0 12-6 200-0 Hall

2 21-6 7-0 301-0 Side rooms

1 16-0 7-0 112-0 Room in rear of Hall

1 7-0 7-0 49-0 Small room

662-0 Total sq. ft. of floor flooring &c complete

1 16-0 9-3 148-0 Verandah

148-0 Total sq. ft. of flooring with square bricks & pointed

6 sq. of tinning tiles allowing for new tiles, bamboo roof

320 sq. ft. of woodwork to doors and windows

120 yards of cloth for ceiling

9 pane of glass 8' x 10" to be replaced

Abstract Estimate No. of 1877-78

Nilgiri District

work. Cost of work done (alterations and additions) to the House occupied by the Governor's Coachman

Qty	Particulars	Rate	Per	Amount	Total
50	cft. of Brickwork	40	..	1000	20
1	Square of Plastering	8	..	8	8
55	Sqrs. of white washing the whole building	14	..	770	48
8	Sqrs. of removing present flooring of concrete and mud	8	..	64	4
501	Sqrs. of Laid flooring &c. complete	102	..	51102	83
148	Sqrs. of flooring with square bricks & flat finished	28	..	4136	17
6	Squares of turning tiles, allowing for new tiles, bamboo reapers & mats	8	..	48	48
75	Sqrs. of repairing Panelled doors & windows	1	..	75	75
320	Sqrs. of woodwork to doors and windows replacing frames of glass	1	..	320	4
120	yards of cloth for ceiling	4	..	480	30
	Total			7936	

(82/1000) Sundries 66 10
Total Estimate Rupees 8600

all the rooms with the exception of the Bath room are floored with teakwood. doors and windows are all repaired and oiled. Tiles of the roof also turned. the whole building inside and outside whitewashed and new cloth ceilings put on

Captain R. C.
District Engineer

Abstract Estimate No. of 1877-78

Nilgiri District

work. Cost of work done (repairing and white washing) the House occupied by the Governor's Cook

Qty	Particulars	Rate	Per	Amount	Total
25	cft. of repairing Brickwork here and there	40	..	1000	10
50	Sqrs. of Plastering partitions here and there	8	..	400	4
2	Squares of turning tiles, allowing for new tiles, bamboo reapers & mats	8	..	16	16
58	Squares of white washing the Interior and Exterior of the whole building including the piling work	14	..	812	50
3	New door Locks	28	..	84	78
	Total			884	

Sundries 11 12
Total Estimate Rupees 1000

James Morant
Captain R. C.

Dy. Engr. Office
D. B. A. C. 18th July 1877

District Engineer

Abstract Estimate N^o of 1877-78

Nilgiri District

work. Cost of additions & alterations to the
Government House stables & -

Qty	Particulars	rate	Per	Amount	Total
29	Skylights 3'x1-6" with Teakwood frames	5	..	each	145 ..
30	Teakwood shelves 2'-0" x 2'-0"	2	..	..	60 ..
62	Teakwood Posts 6'-6" x 4 1/2" x 2 1/2" = 32 feet of Teakwood wrought and put up	5	..	cf.	160 ..
60	wooden pegs 2' x 2 1/2" x 2 1/2"	8	..	..	30 ..
150	Rings of Iron 1 1/2 inch diam.	4	..	..	378 ..
60	sliding hooks of Iron 4 inches long	4	..	..	15 ..
60	bamboos 8'-6" long, 2 inches diam.	4	..	..	15 ..
3	Excavation of Stables side &c				900 ..
5	Pad Locks for godowns & Mess room	8	..	..	28 ..
	Total				1365 ..

(10 per cent) Sundries 136 ..

Total 1500 ..

deduct amount allowed in the original estimate for
skylights and excavation 130 ..

Total Estimate Rupees 1370 ..

St. Engr's Office
Cobacann 18th July 1877

J. H. Morant
Captain R. E.

Abstract Estimate N^o of 1877-78

Nilgiri District

work. Cost of water supply to Government
House &c at Cobacann

Qty	Particulars	rate	Per	Amount	Total
1	Drinking water cistern measuring inside 3'x3'x3' of brick in sorker and plastered with sorker with a trap over 2'x2' and a traps tap				250 ..
4	Small water cisterns 2'-6" x 2'-6" x 3' of brick in sorker & plastered with sorker	125	..	..	500 ..
2	Covered Reservoirs to cookroom and stables 6'x4' of brick in sorker and plastered with sorker with traps taps	500	..	..	1000 ..
450	running feet of 1 inch galvanized Iron piping from the spring to the drinking water cistern	1	..	..	450 ..
	Total				2250 ..

Sundries 220 ..

Total Estimate Rupees 2470 ..

St. Engr's Office
Cobacann 18th July 1877

J. H. Morant
Captain R. E.
District Engineer

Nilgiri District

Nilgiri District

work. Cost of additions and alterations to the various
Buildings connected with the Government House
at Ootacamund (exclusive of the large new Building),

Particulars	Amount	Total
Cost of work done (additions and alterations) to Upper Norwood, occupied by the Governor as per Estimate No. 45 of 1877-78	5,780	
Cost of work done (additions and alterations) to the Kitchen to Upper Norwood as per Estimate No. 46 of 1877-78	3,180	
Cost of Covered Passages to connect Upper Norwood with the Govt. House and Kitchen, and Kitchen with the Government House as per Estimates Nos. 47 and 48	2,960	
Cost of Police Guard Rooms for Government House as per Estimate No. 49 of 1877-78	1,170	
Cost of constructing two Latrines for Government House servants	1,200	
Cost of work done (additions & alterations) to Lower Norwood occupied by the Governor's staff as per Estimate No. 50 of 1877-78	810	

Cost of work done (additions and Alterations)
to garden Villa occupied by the Private
Secretary as per Estimate No: 51 of 1877-78 — 2080 ..

Cost of work done (repairing and whitewashing)
to the House occupied by the Governor's
Cook as per Estimate No: 52 of 1877-78 — 100 ..

Cost of work done (alterations & repairs) to the
House occupied by the Governor's Coachman
as per Estimate No: 53 of 1877-78 — 860 ..

Cost of work done (additions &c) to the govt
~~House~~ Stables as per Estimate No: 54 of 1877-78 — 1370 ..

Cost of water supply to Government
House &c as per Estimate No: 55 of 1877-78 — 2420 ..

Putting up Flag staff with ropes &c and
10 Leekwood lamp Posts — 180 ..

Total 22080 ..

Deduct value of old materials that were utilized
on different works — 580 ..

Gross Total Estimate Rs: 21,500.

Jas Morant
Captain R.E.
District Engineer

St. Eng's Office
Ootacamund
18th July 1877

No. 279.

District Engineer's Office
Ootacamund 18th July
1877.

From.

The District Engineer
Nilgiris
To, The Chief Engineer
P. W. Department
Fort St. George.

Sir,

I have the honor to
submit for sanction 2 Plans and
11 Estimates for work done to all
the Buildings composing the Govern-
ment House at Ootacamund, with the
exception of the new building
designed by the Consulting Archi-
tect, for which Estimates will follow.
2. The accompanying Plans
and Estimates have been kindly ex-
amined by His Grace The Duke's
Private Secretary, who will I am
sure give His Grace every ex-
planation that he may need.

I have the honor to be
Your most obedient servant
Jas Morant
District Engineer

26th June 1877 h^o 300.10.
 13 Jan^y " " 204.
 30 Oct^r 1876 " 2916.
 14 " " " 88.
 16 Sep^r " " 2478.

Buildings & Roads

From,

The District Engineer

To

Nilgiri

The Chief Engineer
 Building & Roads
 Branch
 P. W. D.

Fort St. George

No. 279

Dated 18th July 1877.

8 h. 10.

Enclosure - Thirteen

*With Librarian
 Buildings comprising
 the Government House
 at Ootacamund —

Submits 2 Plans and
 11 Estimates for work
 done to all the —
 with the exception
 of the new building
 designed by the present
 architect.

No. 113-

20/7/77

Heads of Service - Provincial

Fund.

Ordinary

Class.

Original Works

Main-head.

Civil Building

Head.

Sub-head.

Government Houses & Residences

Project of which the works form part

Work.

Government House building at Ootacamund.

Amount. Rs. 2,500

Being ~~to be~~ carried out by the Public Works Department.

Print with G. O. No. 573 W. S. 11-8-77-

Building & Works
No. 573 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 11th Aug^r 1877

Read the following:—

The District Engr. (H.C. No. 279 of 18th July 1877)
Nilghevris

The plans and estimates as particularized below aggregating Rs 21,500 for alterations and improvements to the Government House buildings at Ootaca-mand are sanctioned.
Additions

Architects.

	District Engineer's Estimate	Estimate corrected in the Engineer's Office	No.
1. Additions & alterations to Upper Harwood occupied by the Governor	5,750	5,750	$\frac{133}{1}$
2. do do to the Kitchen to Upper Harwood	3,180	3,160	$\frac{133}{2}$
3 & 4. Cost of covered passage to connect Upper Harwood with Kitchen &c &c	2,960	2,960	$\frac{133}{3}$
5. do of Police Guard Rooms	1,170	1,180	$\frac{133}{4}$
6. Additions and alterations to Lower Harwood occupied by the Governor's staff	810	810	$\frac{133}{5}$
7. do do to Garden Villa occupied by the Private Secy.	2,080	2,090	$\frac{133}{6}$
8. Repairing & white washing the house occupied by the Governor's Cook	100	100	$\frac{133}{7}$
9. Alterations & repairs to the house occupied by the Coachman	860	860	$\frac{133}{8}$
10. do do to the Stables	1,370	1,370	$\frac{133}{9}$
11. Water supply to Govern- ment House	2,420	2,420	$\frac{133}{10}$
Constructing two latrines for servants	20,700	20,700	
Putting up Flag Staff with ropes &c and ten teak wood lamp posts	1,200	1,200	$\frac{133}{11}$
	180	180	$\frac{133}{12}$
Deduct value of old ma- terials utilized &c &c	22,080	22,080	
	580	580	$\frac{133}{13}$
Total Estimate Rs	21,500	21,500	

See Estimate
furnished

2. The District Engineer
will submit a statement
of

of expenditure on the
works showing separately
outlay up to 31st March,
and subsequent to that
date, as well as the
further sum proposed
to be spent during the
current official year.
On receipt of this
information steps
will be taken for the
appropriation of funds.

647
26.7.77

The sanction herein
awarded has been re-
gistered as Provincial
No. $\frac{133}{1-13}$ D. of 1877-78-

D. E. Hildgarnier 3.
En. P. L. to 5.
En. C. E. to 7.
En. S. to 10.
En. B. to 12.
En. G. to 13.
En. H. to 14.
En. I. to 15.
En. J. to 16.
En. K. to 17.
En. L. to 18.
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En. Z. to 84.
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En. B. to 86.
En. C. to 87.
En. D. to 88.
En. E. to 89.
En. F. to 90.
En. G. to 91.
En. H. to 92.
En. I. to 93.
En. J. to 94.
En. K. to 95.
En. L. to 96.
En. M. to 97.
En. N. to 98.
En. O. to 99.
En. P. to 100.

1676/97

Copy

Govt. of 1877 Madras.

PUBLIC WORKS.

To

The B. Gilgiri

Dated

Issued

Recd.

Encl.

G. O., 11th August 1877, No. 573 L.

Nos. 1/3 - 1/11

*Govt House buildings at
Ratasamud, Bilgiri &
Sanctions with view to
the plans & estimates for
alterations & improvements
to the —*

W. P. W. P.