✓

Archives I 10,006—16-8 77.

(1) Number of pages 50
(2) Date of repair 9 16.10.86
(3) Initials of the Referencer ✓

TAMIL NADU ARCHIVES

OVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. 4488 — Press. / Mis.
B.P. No.

Dated 25-11-1878 197 .

ot to be folded or roughly handled

Detailed Estimate No. of 1878-79 $44^{88}/1$

Nilgiri District

Work. Cost of constructing Norwood Government House at Ootacamund including everything except internal fittings and fixtures, water supply and Drainage -

	Measurements				
No.	L	B	D	Contents	Particulars
3	76-0	5-0	3-0	3420-0	Longitudinal wall to store and kitchen room
3	50-0	5-6	3-0	2475-0	Transverse walls to ———— " ————
1	26-0	4-0	3-0	312-0	Cross walls to ———— " ———— "
1	18-6	5-0	3-0	278-0	Bearing wall to Stair case
1	17-0	4-0	3-0	204-0	———— " ———— " ———— " ————
4	6-0	6-0	3-0	432-0	Pillars
1	118-0	4-0	3-0	1416-0	outside wall of detached kitchen + yard
1	48-0	4-0	3-0	576-0	Front walls of kitchen and Scullery
3	20-0	4-0	3-0	720-0	Transverse walls of ———— " ———— " ————
1	56-0	2-6	2-0	280-0	walls to godowns.
1	178-0	5-0	1-6	1335-0	Front. verandah
1	36-0	7-6	1-6	405-0	———— " ————
1	30-0	3-0	4-0	360-0	From west to East of buildg. bay window
1	132-0	5-0	4-0	2640-0	Longitudinal walls
1	24-6	5-0	4-0	490-0	———— " ————
1	71-0	4-0	4-0	1136-0	———— " ————
1	120-0	5-0	4-0	2400-0	———— " ————
1	92-0	3-6	3-0	966-0	———— " ————
1	19-0	3-0	3-0	171-0	Transverse walls from north wall of room to South of buildg
3	52-6	5-0	4-0	3150-0	———— " ———— " ————
2	17-6	4-0	4-0	560-0.	———— " ———— " ————

1	20-3	3-0	4-0	243-0	Transverse walls from north of a built room to South
1	17-6	3-0	3-0	158-0	" "
1	30-6	5-0	4-0	610-0	" "
1	52-0	5-0	4-0	1040-0	Transverse walls
1	27-0	4-0	4-0	432-0	"
1	46-0	3-0	3-0	414-0	"
1	40-0	4-0	4-0	640-0	Porch
1	816-0	2-0	1-0	1632-0	Dwarf walls
				28895-0	Total Cubic feet of broken blue stone in mortar well rammed for concrete
1	74-0	1-6	13-6	1418-0	Longitudinal walls of stores & kitchen from north
1	52-0	2-0	13-6	1404-0	" "
1	16-0	2-0	13-6	432-0	" "
1	52-6	1-9	6-0	551-0	" "
1	17-0	2-0	13-6	459-0	" "
1	23-0	2-0	13-6	621-0	" "
1	44-0	2-0	13-6	1188-0	Transverse walls from west including part of veranda
4	3-0	1-6	13-6	243-0	Buttresses
1	32-0	2-0	13-6	864-0	Transverse walls
1	17-6	1-6	13-6	354-0	"
2	25-6	2-6	12-6	1594-0	"
1	17-6	1-2	13-6	276-0	"
1	32-0	2-0	12-6	800-0	"
1	18-0	1-2	13-6	284-0	"
2	24-6	2-0	13-6	1323-0	"
1	20-0	2-0	12-6	500-0	"
1	48-0	1-2	5-0	280-0	Bearing wall
1	83-0	1-6	7-6	934-0	walls of detached kitchen & godowns &c
1	35-0	1-6	10-0	525-0	" "
1	48-0	1-6	13-0	936-0	" "
2	18-0	1-2	12-0	504-0	" "
1	54-0	0-9	8-0	324-0	walls to godowns
1	31-3	2-0	5-3	328-0	foundations commencing from west of building - Bay window

1	31-3	1-6	2-9	129-0	Foundations commencing from west of buildg - bay window
1	116-0	3-0	5-6	1914-0	Front main wall
1	116-0	2-6	2-9	798-0	"
1	14-0	2-6	4-6	158-0	"
1	14-0	2-0	2-9	77-0	"
1	24-6	3-0	4-6	331-0	wall between billiard room & Hall
1	24-6	2-6	2-9	169-0	" "
1	71-0	2-6	2-9	488-0	wall between drawing room, governor's and staircase walls
1	112-0	1-6	3-0	504-0	Longitudinal wall in front of a. d c's. Entrance Hall, Private and Military Secretary's room
1	112-0	2-6	2-9	770-0	" "
1	71-0	2-6	3-6	621-0	wall between drawing, governor's & staircase rooms
1	116-0	2-2	0-9	189-0	Longitudinal or rear wall
1	116-0	1-8	2-9	532-0	" "
1	18-0	2-0	1-0	36-0	Transverse walls commencing from north wall of a. d c's
1	18-0	1-6	2-9	74-0	" "
1	52-6	2-6	4-0	525-0	North wall of dining room
1	52-6	2-0	2-9	289-0	" "
1	52-6	3-0	3-6	551-0	South wall
1	52-6	2-6	2-9	361-0	"
1	18-0	2-6	1-0	45-0	South wall "
1	18-0	2-0	2-9	99-0	" "
1	52-6	3-0	3-6	551-0	South wall of Entrance Hall
1	52-6	2-6	2-9	361-0	" "
1	18-0	2-6	1-0	45-0	" "
1	18-0	2-0	2-9	99-0	" "
1	20-0	2-0	3-0	120-0	wall between principal staircase & ante room
1	20-0	1-6	2-9	83-0	" "
1	18-0	2-0	1-0	36-0	South wall of Private Secretary's room
1	18-0	1-6	2-9	74-0	" "
1	30-3	3-0	4-0	363-0	wall between drawing & the governor's room
1	30-3	2-6	2-9	208-0	" "
1	20-0	2-0	2-6	100-0	wall between ante & the governor's retiring room
1	20-0	1-6	2-9	83-0	" " "

4 486/2

	1	20-0	2-0	1-6	60-0	South wall of Military Secretary's room
	1	20-0	1-6	2-9	83-0	„
	1	52-0	3-0	4-0	624-0	main wall below stone arch & outside walls of retiring room
	1	52-0	2-6	2-9	358-0	„ „
	1	32-0	2-6	4-0	320-0	outside south wall of the governor's room
	1	32-0	3-0	2-9	264-0	„ „
	1	40-0	3-0	4-0	480-0	Porch
	1	40-0	2-6	2-9	275-0	„ „
	4	42-3	1-6	6-0	1521-0	Dwarf walls to drawing room
	3	64-0	1-6	5-0	1440-0	Entrance Hall
	3	52-6	1-6	5-0	1181-0	Dining room
	4	28-0	1-6	5-0	840-0	The governor's room
	4	31-0	1-6	3-0	558-0	A. D.C's and Private Secretary's room
	2	23-0	1-6	3-0	207-0	Military Secretary's room
	2	24-0	1-6	3-0	216-0	Principal staircase room
	2	30-0	1-6	3-0	270-0	Ante room
	1	166-0	2-0	12-0	3984-0	Front verandah wall
		„	„	„	400	Brickwork to kitchen staircase
	1	302-6	„	„	„	Longitudinal walls
4	1	24-6	„	„	„	Billiard room
1 2	1	262-6	„	„	„	Transverse walls
1 1	1	28-0	„	„	„	Longitudinal walls to the governor's room
2	1	617-6	2-0	23-0	28405-0	Total
1 1	1	25-3	2-6	23-0	1452-0	Principal stairs back wall
1 3	1	33-3	2-0	23-0	1530-0	The governor's retiring and Ante room
1 1	1	20-3	1-6	23-0	699-0	„ partition
2 2	1	30-0	1-9	23-0	1208-0	Drawing room partition
1 1	1	30-0	1-0	21-0	630-0	„ Bow
1 4	1	32-0	1-6	23-0	1104-0	South wall of the governor's room
1 5	1	32-0	1-6	14-0	672-0	rear wall of Private Secretary's room
1 3	1	19-0	1-6	14-0	399-0	„ South end wall
1 1	1	46-0	1-6	14-0	966-0	rear and end walls of Military Secretary's room
2 1	1	59-6	1-6	23-0	2053-0	rear and end walls of Entrance Hall
1 5	1	32-0	1-6	14-0	672-0	rear and end walls of A. D. C's room
1 3	1	58-6	1-6	23-0	2018-0	rear and end walls of servants stairs
	1	30-3	2-0	23-0	1392-0	Serving room partitions
	1	30-3	2-0	13-0	787-0	Serving room partitions
	1	30-3	1-6	10-0	454-0	„ above „
	1	113-6	1-6	14-0	2384-0	front and rear walls of servants room
	1	17-6	1-3	14-0	306-0	„ partition
	1	24-0	1-3	14-0	420-0	„ „
	6	2-7	2-7	0-7	23-0	Bases of Square pillars in Entrance Hall
	6	1-10	1-10	11-2	225-0	„ „ shafts
	2	24-6	2-0	11-3	1103-0	wall over pillars
	26	2-6	2-6	0-9	122-0	Verandah pillars pedestals, bases
	26	2-0	2-0	2-0	208-0	„ „
	1	140-0	0-6	2-9	193-0	„ Parapet between
	26	1-6	1-6	8-6	497-0	„ Square pillars
	1	179-0	1-0	2-0	358-0	Parapet over Verandah pillars
	25	1-3	1-3	1-0	39-0	„ bases to flower pots
	1	25-0	1-6	8-0	300-0	„ Entrance over pillars
	2	3-6	2-6	19-0	333-0	„ Ends
	4	2-0	2-0	13-0	208-0	Porch pillars
	1	57-0	1-6	5-0	428-0	above „
					91594-0	Total
					8502-0	Deduct
					83092-0	Total cubic feet of Brick in mortar, Lower story

4488/3

1	229-0	„	„	„	Longitudinal walls
1	31-9	„	„	„	„
1	58-4	„	„	„	„
1	62-0	„	„	„	„
1	226-0	„	„	„	Transverse walls
1	53-6	„	„	„	„
1	32-3	„	„	„	„
1	21-3	„	„	„	„
1	59-6	„	„	„	Servants staircase walls
1	60-0	„	„	„	Ladies Boudoir walls
1	924-7	1-6	14-0	17316-0	Total

1	20-0	1-0	14-0	280-0	Bed room partitions
1	25-6	2-6	13-0	829-0	rear walls of Principals stairs
6	2-3	2-3	0-9	23-0	Pillar bases
6	1-6	1-6	9-0	122-0	" Shafts
1	25-0	"	"	"	Partition in A. D. C's room
1	17-6	"	"	"	" Private Secretary
1	34-0	"	"	"	" Servants room
1	13-6	"	"	"	"
1	90-0	0-4	14-0	420-0	Total
1	15-0	0-4	22-6	113-0	The governors retiring room
1	28-6	"	"	"	North wing partition
1	14-7½	"	"	"	"
1	21-0	"	"	"	"
1	11-2	"	"	"	"
1	44-0	"	"	"	"
1	58-0	"	"	"	"
1	169-3½	0-4	14-0	790-0	Total
1	22-0	"	"	"	South wing partition
1	56-6	"	"	"	"
1	15-0	"	"	"	"
1	10-6	"	"	"	"
1	104-0	0-4	14-0	485-0	Total
				20378-0	Total
				2640-0	Deduct
				17738-0	Total c feet of Brick in mortar Upper story
1	98-6	1-6	14-6	2142-0	Principal stairs upper portion
1	468-4	1-6	2-0	1405-0	Parapet
12	3-0	3-0	2-9	297-0	Pedestals
				448-0	Skylight over Principal stairs
				4292-0	Total
				485-0	Deduct
				3807-0	Total c feet of Brick in mortar above 37 feet
				2075-0	Total c feet of Brick in Morgan's cement

3142 Total c feet of Archwork in chunam 4488/31

154 Squares of chunam plastering to ground floor

1	145-0	"	22-6	3263-0	Lower story drawing room
1	28-3	"	13-6	381-0	" Bow
1	85-6	"	22-6	1924-0	His grace's room
1	72-3	"	22-6	1626-0	"
1	88-0	"	22-6	1980-0	Principal stairs
1	101-0	"	22-6	2273-0	Ante room &c
1	96-0	"	13-6	1296-0	Chief Secretary's room
1	87-0	"	13-6	1175-0	Military
1	86-0	"	21-6	1849-0	Entrance Hall
1	109-0	"	22-6	2453-0	Hall
1	84-0	"	22-6	1890-0	Billiard room
1	153-6	"	22-6	3454-0	Dining room
1	101-6	"	22-6	2284-0	Library
1	96-0	"	13-6	1296-0	A. D. C's room
1	145-0	"	13-6	1958-0	Servants room
1	16-0	"	13-6	216-0	"
1	73-0	"	13-6	986-0	"
1	105-0	"	"		South wing bed room
1	87-0	"	13-6	3989-0	" Dining room
1	103-6	"			" bed and Dining room
1	88-6	"	26-0	2301-0	Principal stairs
1	196-0	"	11-6	2254-0	over Entrance hall
1	153-6	"	13-6	2072-0	North wing bed rooms over Dining rooms
1	104-6	"	13-6	1411-0	Bed room over Library
2	90-6	"	13-6	2444-0	" Serving rooms
				10500-0	Partition walls
				14083-0	ceilings of roofs
				71358-0	Total square feet of chunam plastering
				or 713½	Squares of "

1	491-9	„	14-0	6885-0	} Lower story
1	30-0	„	21-0	630-0	
1	483-0	„	9-0	4347-0	
1	49-0	„	18-0	882-0	
1	455-0	„	14-0	6370-0	} Upper story
1	88-0	„	25-0	2200-0	
1	110-0	„	12-6	1375-0	
				22689-0	Total square feet of chunam plastering
			n Squares	227	of ——„——
5	6-0	„	5-6	165-0	Landing
1	24-0	„	5-6	132-0	——„—— Upper
40	1-1	„	5-6	238-0	Steps
				535-0	Total square feet ————
2	5-6	„	5-0	55-0	Landing
6	18-6	„	5-0	555-0	——„——
64	1-0	„	5-0	320-0	Steps
				930-0	Total square feet
„	„	„	„	84	Lineal feet of Handrails of rose and teakwood Principal stairs ————
„	„	„	„	137	Lineal feet of Handrail to servants staircase
3	2-6	2-6	„	19-0	Sashes & panes & hinges &c to windows of detached kitch
3	4-0	9-6	„	114-0	Ledge doors complete
3	3-0	6-6	„	59-0	——„——
3	4-0	7-6	„	90-0	Pannelled doors
10	3-0	7-0	„	210-0	sashes & panes & to windows of detached kitchen
				702-0	Total square feet of doors & windows

4488/5

4	5-0	„	8-0	160-0	Iron doors complete
1	8-6	„	9-0	77-0	——„——
3	2-0	„	4-0	24-0	Iron windows to Ladder
				261-0	Total square feet of iron doors & windows
1	42-3	30-6	„	1289-0	Drawing room
1	$\frac{18^2 \times .7854}{2}$		„	127-0	Bay window
1	27-0	30-6	„	824-0	Governor's room
1	31-3	20-3	„	633-0	Governor's and Ante room
1	20-3	23-9	„	481-0	Principal staircase room
1	30-6	17-6	„	534-0	Military Private secretary's room
1	23-6	20-0	„	470-0	Military Secretary's room
1	68-0	20-6	„	1394-0	Entrance Hall
1	52-6	24-3	„	1273-0	Dining room
1	30-6	17-6	„	534-0	A.D.C's room
				7559-0	Total square feet of teak flooring &c complete
1	30-3	20-6	„	620-0	Library
1	30-3	14-0	„	424-0	Store rooms
1	30-3	14-0	„	424-0	Serving room
1	17-6	20-0	„	350-0	Servants Hall
1	34-0	17-6	„	595-0	Servants Bedroom
1	24-0	12-6	„	300-0	maid Servants Bedrooms
1	4-0	8-0	„	32-0	Passage
1	180-0	20-0	„	3600-0	Verandah
				6345-0	Total square feet of terrace flooring &c complete
1					
1	48-0	21-0	„	1008-0	Detached Kitchen & Scullery
				1008-0	Total square feet of terrace roofing with Brick in cement
2	58-6	„	53-6	6260-0	
				6260-0	Total square feet of terrace flooring with Brick on edge in mortar ————

1	158-0	21-0	„	3318-0	Verandah in front
1	30-0	24-0	„	720-0	"
1	56-0	32-0	„	1792-0	Central hall & billiard room
1	21-0	32-0	„	672-0	Entrance hall
1	24-0	26-0	„	624-0	Porch
2	60-0	56-0	„	6720-0	North & south wings over bedrooms
1	27-0	23-0	„	621-0	Military Secretary's room
2	31-0	21-0	„	1302-0	Private Secretary's & A.D.C's room
1	32-0	16-0	„	512-0	Portion of Ladies Boudoir
1	22-6	20-0	„	450-0	Servants Hall
1	36-0	16-0	„	576-0	Servants Bed rooms
1	27-0	14-0	„	378-0	Vallets
				450-0	Servants stairs
				18135-0	Total square feet of terrace roofing

1	19-0	10-0	„	190-0	Godowns
1	14-0	14-6	„	203-0	"
1	14-0	8-0	„	112-0	Passage to main building
				505-0	Total square feet of corrugated iron roofing to com

2	2-0	2-0	1-0	8-0	Column bases
2	1-6	1-6	8-9	39-0	" shafts
2	2-0	2-0	1-0	8-0	" Capitals
2	3-0	2-0	1-0	12-0	Imposts
2	2-0	2-0	1-0	8-0	"
2	6-0	2-0	1-0	24-0	"
2	5-0	2-0	1-0	20-0	"
2	3-3	2-0	1-0	13-0	"
2	2-6	2-0	1-0	10-0	"
3	2-0	2-0	2-6	30-0	Entrance Verandah pedestals
4	1-6	1-6	2-6	23-0	" "
4	1-0	1-0	9-0	36-0	" shafts
4	1-6	1-6	2-0	18-0	Entrance Verandah Imposts
25	1-6	1-6	0-6	28-0	Stones under breastsummers
				277-0	Total c feet of cut stone work

6488 / 6

9	44-0	1-3	„	495-0	Front steps - tread
9	44-0	0-6	„	198-0	" rise
1	23-0	4-6	„	104-0	Landing
4	28-0	1-3	„	140-0	Steps - tread
4	28-0	0-6	„	56-0	" rise
1	190-0	2-0	„	380-0	Coping to border of Front Verandah
4	24-0	1-3	„	120-0	Steps of Carriage entrance - tread
4	24-0	0-6	„	48-0	" rise
1	50-0	17-6	„	875-0	Flooring to kitchen
1	40-0	19-0	„	760-0	Larder
1	52-6	18-6	„	971-0	Wine & dry stores
1	18-6	12-0	„	222-0	Staircase well
1	24-0	12-6	„	300-0	Pantry
1	34-6	17-6	„	604-0	detached kitchen
1	17-6	9-0	„	157-0	Scullery
1	6-0	1-6	„	9-0	Doorway
1	12-6	6-0	„	75-0	Kitchen yard
2×16	3-0	1-2	„	112-0	stone under beams
1	46-0	14-0	„	644-0	kitchen yard
1	30-0	24-0	„	720-0	"
2×4	3-0	1-2	„	28-0	stone under beams
1	8-0	11-0	„	88-0	kitchen yard
24	4-6	1-8	„	180-0	tread of 8 steps to kitchen staircase
1	25-0	4-6	„	113-0	Passage between scullery & cook house
10	4-0	3-0	„	120-0	Hearth stones to fire places of bed rooms
2×8	5-0	1-2	„	93-0	stone under beams
2	5-0	5-0	„	50-0	Landings
				7662-0	Total square feet of cut stone work

2	190-0	0-9	1-0	285-0	Verandah breastsummer (in 2 pieces)
1	12-0	1-0	1-0	12-0	" Beams
1	20-0	1-0	1-4	27-0	" "
2	15-0	1-0	1-0	30-0	" sides of Entrance
80	20-0	0-4	0-8	35-6-0	" Joists
8	22-0	0-4	0-8	39-0	" "
12	24-0	0-4	0-8	64-0	" "
32	4-0	0-4	0-8	28-0	Small Joists
2	23-0	1-0	1-6	69-0	Entrance Verandah beams
15	31-0	0-4	0-6	78-0	" Joists
4	22-0	1-1½	1-0	99-0	Porch - Breastsummer in 2 pieces
2	24-0	1-1½	1-0	54-0	" "
1	23-0	1-0	1-6	35-0	Beams
20	22-0	0-3	0-6	30-0	Joists
2	27-6	1-0	2-0	110-0	Entrance - beams
19	22-9	0-3	0-4½	41-0	Entrance joists
1	120-0	0-6	0-3	15-0	Hall gallery - Longitudinal beams
40	5-3	0-4	0-6	35-0	" Cantilivers
4	6-6	0-4	0-6	4-0	" at angles
44	1-0	0-4	1-0	14-0	" brackets
1	73-0	0-2	0-2	2-0	" moulding
1	73-0	0-1½	0-3	2-0	Plank below moulding
2	17-0	1-0	1-2	40-0	Drawing room cross beams
4	13-0	1-0	1-2	61-0	" "
34	13-6	0-3½	0-6	67-0	" joists
34	12-0	0-3½	0-6	60-0	" "
34	11-0	0-3½	0-6	55-0	" "
12	averg. 9-0	0-3	0-4½	10-0	" bow "
2	15-6	1-0	1-0	31-0	His grace's room - beams
2	16-6	1-0	1-0	33-0	" "
22	17-0	0-6	0-8	125-0	Joists
18	6-6	0-4	0-5	16-0	"
18	9-0	0-4	0-6	27-0	"
4	27-0	1-2	1-6	189-0	Dining room beams
	15-0	0-3	0-5	5-9-0	Joists
57	11-0	0-3½	0-4½	69-0	"
3	23-6	1-0	1-3	86-0	beams
14	32-0	0-3	0-4½	42-0	Joists
4	20-0	1-0	1-2	94-0	Chief Secretary's & A.D.C's room beams
8	33-0	0-3	0-5	96-0	Joists
0	4-0	0-4	0-8	36-0	Military Secretary's room - joists
	26-6	1-2	1-6	93-0	beam
	33-0	0-3	0-5	69-0	Joists
	4-0	0-4	0-8	36-0	Small joists
2	17-0	1-0	1-0	136-0	Sewing room - beams
	33-6	0-3	0-6	201-0	Joists
	23-0	1-1	1-4	66-0	Library beams
	33-6	0-3½	0-6½	90-0	Joists
4	20-0	1-0	1-2	93-0	Servants rooms beams
19	13-6	0-4	0-7½	5-3-0	Joists
10	11-0	0-4	0-7	21-0	"
[illegible]	13-6	0-3½	0-6½	51-0	"
	36-0	0-5	0-6	8-0	between skylight "
	16-6	0-4	0-7	64-0	" "
	42-0	0-4	0-3	4-0	Skylight wall plate
	39-0	0-3	0-6	5-0	"
	3-0	0-3	0-4	1-0	Uprights over beams
	6-0	0-3	0-3	9-0	Rafters
	20-2	0-4	0-2	1-0	Horizontal pieces
	39-0	0-2	0-4	2-0	"
	5-6	0-2	0-2	7-0	Sashes
	14-0	0-4	0-4	30-0	Framed partitions uprights
	72-0	0-4	0-4	8-0	horizontal pieces
	72-0	0-4	0-5	10-0	" upper
1	72-0	0-4	0-8	16-0	Ties
22	5-0	0-4	0-5	15-0	Struts
31	14-0	0-2	0-4	24-0	uprights
1	62-0	0-2	0-4	4-0	horizontal pieces
2	17-0	1-0	1-2	40-0	Bed room over Drawing room - cross beams
	13-0	1-0	1-2	61-0	" "

	31	34-0	0-3½	0-7	179-0	Joists ×
	34	32-0	0-3	0-3	68-0	sleepers for floor
2 1½	32	14-0	0-4	0-4	50-0	Partition uprights
1 1	1	119-0	0-4	0-4	13-0	— " — Lower horizontal pieces
1 2	1	119-0	0-5	0-4	17-0	— " — Upper — " —
2 1	1	119-0	0-4	0-8	26-0	— " — Ties
80 2	10	9-0	0-4	0-4	10-0	— " — Struts
8 2	10	4-6	0-4	0-4	5-0	— " — " —
12 2	6	5-6	0-4	0-5	5-0	— " — " —
32	6	5-0	0-4	0-4	3-0	— " — " —
2 2	3	4-3	0-3	0-4	1-0	— " — straining piece
15 3	5	3-6	0-3	0-4	2-0	— " — " —
4 2	35	14-0	0-2	0-4	27-0	Partition - uprights
2 2	1	20-0	1-0	1-2	23-0	Ladies Boudoir - beams
1 23-	20	20-0	0-4½	0-9	113-0	— " — Joists
20 22-	10	6-6	0-4½	0-9	18-0	— " — " —
2 27-	12	27-0	0-3	0-3	20-0	Sleepers below floor
	3	14-0	0-3	0-3	3-0	— " —
19 22-9	2	15-6	1-0	1-0	31-0	Bed room beams
1 120-0	10	34-0	0-4	0-6	57-0	Joists
40 5-3	6	32-0	0-3	0-3	12-0	sleepers
4 6-6	3	28-0	1-1½	1-6	116-0	Bed and Dressing rooms south side - beams
44 1-0	16	34-0	0-4	0-6	91-0	Joists
1 73-0	9	32-0	0-3	0-3	18-0	sleepers below floor
1 73-0	6	14-0	0-4	0-4	9-0	Partition uprights
2 17-0	1	25-0	0-4	0-4	3-0	Lower horizontal pieces
4 13-0	1	35-0	0-4	0-5	3-0	Upper — " —
34 13-6	1	25-0	0-4	0-8	6-0	Tie
34 12-0	2	5-6	0-4	0-5	2-0	struts
34 11-0	4	5-0	0-4	0-5	3-0	— " —
12 every 9-8	2	24-6	1-1	1-6	80-0	Principal staircase room - beams
2 15-6	18	27-0	0-3½	0-7	82-8	Joists
2 16-6	1	27-0	1-0	1-6	41-0	beam
22 17-0	3	27-0	1-2	1-6	142-0	Wall upper part - beams
18 6-6	2	9-8	1-0	1-0	19-0	— " —
18 9-0	1	8-2	1-0	1-0	8-0	— " —
	19	10-9	0-3	0-5	21-0	Joists
4 27-0						

H 4088/8

19	10-6	0-3	0-5	20-0	Joists
57	10-0	0-3	0-4½	53-0	— " —
4	27-6	1-2	1-6	193-0	Beds & dressing rooms over Dining room - beams
19	56-0	0-3½	0-7	181-0	Joists
32	14-0	0-4	0-4	50-0	Partition - uprights
1	110-6	0-4	0-4	12-0	Lower horizontal piece
1	110-6	0-4	0-5	15-0	Upper — " —
1	111-6	0-4	0-8	25-0	Tie
8	9-0	0-4	0-4	8-0	Struts
8	4-6	0-4	0-4	4-0	— " —
8	5-6	0-4	0-5	6-0	Partitions - struts
8	5-0	0-4	0-5	6-0	— " —
4	4-3	0-3	0-4	1-0	Straining pieces
4	3-6	0-3	0-4	1-0	— " —
28	14-0	0-2	0-4	22-0	uprights
19	54-0	0-3	0-3	64-0	Sleepers below floor
2	24-0	1-1	1-5	74-0	Bed & Dressing rooms over ~~Sewing room~~ North side over Library - beams
18	33-6	0-3½	0-7½	110-0	Joists
4	17-0	1-0	1-0	68-0	Bed & Dressing rooms over Sewing room - beams
26	33-6	0-3½	0-7	148-0	Joists
29	14-0	0-4	0-4	45-0	Partition uprights
1	76-0	0-4	0-4	8-0	Lower horizontal pieces
1	76-0	0-4	0-5	11-0	Upper — " —
10	10-0	0-4	0-4	11-0	Struts
10	5-6	0-4	0-4	6-0	— " —
1	79-0	0-4	0-8	18-0	Tie
3	3-6	0-3	0-4	1-0	straining piece
19	31-0	0-3	0-3	76-0	Sleepers below Floor
2	22-0	0-6	0-6	11-0	Servants Stair - wall plates
2	22-0	1-6	1-2	77-0	Beams
16	20-0	0-7	0-3	46-8	Joists
2	18-9	0-6	0-9	14-0	Skylight in north wing - breastsummers
2	9-4	0-6	0-9	7-0	— " —
10	4-0	0-4	0-4	5-0	uprights
1	37-0	0-4	0-3	3-0	wall plates
1	56-0	1-0	0-3	14-0	— " —
1	45-0	0-8½	0-1	3-0	Planking

2	16-0	0-8	0-1	2-0	Planking
4	6-6	0-4	0-6	4-0	struts
2	5-6	0-3	0-4	1-0	Straining pieces
14	11-4	0-3	0-6	20-0	joists
1	500-0	0-4	0-2½	35-0	Bond plates to partition in bed rooms
8	14-0	0-4	0-4	13-0	Partitions in sewing rooms - uprights
2	5-0	0-4	0-4	1-0	struts
1	15-0	0-4	0-8	3-0	Straining piece
400	2-6	0-5	0-3½	121-6	projecting joists to roof
1	478-0	0-5	0-3½	58-0	horizontal piece to —"—
				6764-3	Total cubic feet of teakwood wrought & put up
1	6-0	..	8-6	51-0	Entrance door including frames and bar fastenings
				51-0	Total square feet —
1	6-0	..	8-6	51-0	glazed outer shutters for entrance door including frames
				51-0	Total square feet
1	23-0	..	2-4	54-0	Pannelled side for Entrance door
				54-0	Total square feet
				10-0	Lineal feet of moulding over entrance door
15	5-4	..	9-6	760-0	Doors with rosewood panels and satinwood carvings including jambs complete —
				760-0	Total square feet
10	4-6½	..	8-6	386-0	Teakwood doors with Red cedar panels with frames pannelled jambs and soffits complete —
				386-0	Total square feet —
20	4-6½	..	10-0	908-0	Doors - Lower story
3	4-6½	..	7-3	99-0	windows - His grace's room
8	3-6	..	5-0	140-0	—"— Servants rooms
8	3-6	..	5-0	140-0	—" Secretary's & a.d.c's room
1	3-6	..	7-0	25-0	windows in Servants ~~room~~ stairs
4	3-0	..	7-0	84-0	—"— Sewing room
2	4-0	..	3-6	28-0	—"—"— upper part
22	4-6	..	6-9	668-0	—"— upper storey
2	2-3	..	6-9	30-0	—"—"—
5	4-6	..	8-7½	194-0	—"— in principal Servants stairs
16	4-6	..	6-0	432-0	windows and doors with circular heads taken square over all
6	4-6	..	10-0	270-0	—"—"—"—
1	112-0	..	3-6	392-0	Skylights to Principal stairs
12	2-9	..	5-0	165-0	Upper lights in Servants stairs
				3575-0	Total square feet —
22	3-6	..	8-0	616-0	Pannelled & Venetian doors for upper bed rooms & Servants rooms
				616-0	Total square feet —
1	43-0	..	5-6	237-0	over Servants passage
4	4-2	..	2-9	46-0	Skylight in upper north wing
4	4-9	..	2-9	52-0	—"—"—
2	5-5	..	2-9	30-0	—"—"—
				365-0	Total square feet —
28	2-2½	..	1-1½	69-6	Lights over entrance
				69-6	Total square feet —
3	1-9½	..	3-11	21-0	Lower story - His graces room - windows
2	4-6	..	1-8½	15-0	Governors Ante room
4x3	1-6½	..	3-7	66-0	Servants staircase windows
4x2	1-6½	..	3-7	44-0	Principal staircase —"—
6	3-6	..	2-6	53-0	Chief Secretary's and A. D. C's room —"—
21	1-7	..	3-9	125-0	Upper bed room windows
34	1-10¼	..	3-10¼	243-0	Upper lights
6	1-9¾	..	3-9¾	41-0	—" His graces room
				608-0	Total square feet —
2x3	1-5	..	3-11	33-0	His grace's room windows
2x22	1-5	..	3-11	224-0	Upper windows

2	1-5	„	3-11	11-0	Upper windows
30	1-6½	„	6-0	278-0	Outer windows
18	1-10¼	„	3-10¼	129-0	„
16	1-2½	„	4-0½	78-0	Chief Secretary's & A.D.C's room
				773-0	Total square feet
5	5-0	„	4-6	113-0	Total square feet of rough cast plate glass in iron fram
1	49-0	„	30-3	1482-0	over Serving room
1	57-3	„	30-9	1760-0	South wing upper story
1	31-9	„	20-3	643-0	„
1	53-6	„	24-9	1324-0	North wing
1	50-6	„	31-0	1566-0	„
1	89-0	„	4-6	401-0	„
				7176-0	Total square feet
1	1540-0	„	0-9	1155-0	Lower story
1	969-0	„	0-9	727-0	Upper story
				1882-0	Total square feet
2×15	5-4	„	9-6	1520-0	Drawing room doors
14	25-0	„	2-0	700-0	„
2×10	4-6½	„	8-6	772-0	Teakwood doors with red cedar panels
10	22-0	„	2-0	440-0	„
1	2509-0	„	0-9	1882-0	Skirting boards
				5314-0	Total square feet
				73-0	Lineal feet of wooden railing for gallery
				2364-0	Lineal feet of interior plaster mouldings - Upper & Lower Story
				145	Lineal feet of Drawing room plaster mouldings
				455	Lineal feet of Exterior Lower string cornice
				30	Lineal feet of Exterior Lower string cornice over bow

4488/10

	710	Lineal feet of Upper main cornice
	150-0	Square feet over entrance verandah pillars in garden front
4		Capitals and bases to Verandah pillars
25		Capitals and bases to Verandah Pillars
2		Capitals and bases to Porch stone Pillars
66		Brackets for Upper windows
	476-0	Lineal feet of mouldings upper windows
	710-0	Lineal feet of Parapets
25		Vases over Verandah posts
	153-0	Lineal feet of Dining room cornice
	30-0	Lineal feet of parapet over Drawing room bow
2		Stone columns for Porch
1		Ornamental screen partition with curtain in Hall
1		Teakwood gate 8'x9' to kitchen yard
12		Cast iron saddles for Drawing room beams
1		Bake oven of brickwork with cast iron doors complete
		Excavation &c

Abstract Estimate No. of 1878-79 4488/11

Nilgiri District

Work - Cost of constructing Norwood Government House at Ootacamund, including everything except internal fittings, fixtures, water supply and Drainage -

Qty	Particulars	rate	Per	Amt	Total
28895	Cubic feet of broken blue stone in mortar well rammed for concrete	45 . .	100 cft	13002 12 .	
2075	Cubic feet of Brick in Morgan's Cement	160 . .	100 cft	3320 . .	
83092	Cubic feet of Brick in mortar, Lower Floor	50 . .	100 cft	41546 . .	
17738	Cubic feet of Brick in mortar, Upper Floor	55 . .	100 cft	9755 14 4	
3807	Cubic feet of Brick in mortar above 37 feet	60 . .	100 cft	2284 3 2	
3142	Cubic feet of Archwork in mortar	60 . .	100 cft	1885 3 2	
154	Squares of chunam plastering to ground floor	10 . .	sqre	1540 . .	
1	Square of plastering with Morgan's cement	50 . .	sqre	50 . .	
713½	Squares of Plastering interior of walls and ceilings of roofs	15 . .	sqre	10702 8 .	
227	Squares of plastering exterior walls	15 . .	sqre	3705 . .	
7559	Square feet of teak flooring &c complete to L. Floor	102 . .	sqre	7710 2 10	
1008	Square feet of terrace Roofing with brick in cement including woodwork	200 . .	sqre	2016 . .	
6345	Square feet of terrace flooring including woodwork	150 . .	sqre	9517 8 .	
63	Squares of terrace flooring with brick on edge &c	32 . .	sqre	2016 . .	
18135	Square feet of terrace roofing &c complete excluding woodwork	100 . .	sqre	18135 . .	
505	Square feet of corrugated iron roofing &c complete	80 . .	sqre	404 . .	
277	Cubic feet of cut stone work	4 8 .	cft	1246 8 .	
7662	Square feet of cut stone work over rammed Concrete	120 . .	sqre	9194 6 4	
6764	Cubic feet of teakwood wrought and put up	5 . .	cft	33820 . .	
4	Large beams for Drawing room including Carving	1250 . .	each	5000 . .	
535	Square feet of Principal staircase including supports	4 . .	sqft	2140 . .	

	Qty	Description	Rate	Unit	Amount
	930	Square feet of Servants stairs	3 . .	sqft	2790 . .
2 1	84	Lineal feet of Handrail of rosewood and teak wood for Principal stairs	2 . .	Ll. ft	168 . .
1	137	Lineal feet of Handrail to Servants stairs	2 . .	Ll. ft	274 . .
2	702	Square feet of Doors and windows in ground floor	2 4 .	sqft	1579 8 .
80	261	Square feet of iron doors and windows	2 8 .	sqft	652 8 .
8 12	51	Square feet of Entrance Door including frames and brass fastenings	2 8 .	sqft	127 8 .
32 2	51	Square feet of glazed outer shutters for Entrance Door including frames &c	2 8 .	sqft	127 8 .
15	54	Square feet of Pannelled sides to Entrance Door	2 . .	sqft	108 . .
4	10	Lineal feet of moulding over Entrance Door	1 . .	Ll. ft	10 . .
2 1 20	760	Square feet of Doors with rosewood panels and Satinwood Carvings including jambs &c complete	13 . .	sqft	9880 . .
2 19 1	386	Square feet of teakwood doors with Red Cedar panels with frames, pannelled jambs and soffits &c complete	7 . .	sqft	2702 . .
40	3575	Square feet of outer doors and windows with frames	3 . .	sqft	10725 .
4 44	616	Square feet of Pannelled and Venetian doors for Upper bed rooms	2 8 .	sqft	1540 .
1	365	Square feet of Plain glass in frames for skylights	. 8 .	sqft	182 8 .
1	69½	Square feet of colored glass in leaden sashes	3 . .	sqft	208 8
2 4	608	Square feet of colored glass in leaden sashes painted and Stained	3 8 .	sqft	2128 .
34	773	Square feet of Plate glass	4 . .	sqft	3092 .
34	113	Square feet of rough cast plate glass in iron frame	8 . .	sqft	904 . .
34	7176	Squarefeet of boarded floor of 1¼" planks	60 . .	sqre	4305 9 .
12 2	1882	Square feet of skirting boards	. 12 .	sqft	1411 8 .
2	53	Squares of varnishing doors &c	10 . .	sqre	530 . .
22	605	Squares of woodoiling to woodwork 2 coats	3 . .	sqre	1815 .
18	73	Lineal feet of wooden railings for gallery	3 . .	Llft	219 . .
18	2364	Lineal feet of interior plaster mouldings	1 4 .	Llft	2955 . .
4	145	Lineal feet of Drawing room plaster mouldings	3 . .	Llft	435 . .

4488/12

Qty	Description	Rate	Unit	Amount
455	Lineal feet of Exterior Lower string cornice	4 . .	Llft	1820 . .
30	Lineal feet of exterior Lower string cornice over Bow	4 . .	Llft	120 . .
710	Lineal feet of Upper main cornice	4 . .	Llft	2840 . .
710	Lineal feet of Terracotta parapets	5 . .	Llft	3550 . .
150	Squarefeet of Terracotta work over Entrance Verandah pillars in garden front	2 . .	sqft	300 . .
4	Terracotta Capitals and bases to Verandah Pillars	10 . .	each	40 . .
25	Terracotta Capitals and bases to Verandah pillars	5 . .	each	125 . .
2	Terracotta Capitals & bases to Porch, stone Pillars	20 . .	each	40 . .
66	Terracotta brackets for Upper windows	4 8 .	each	297 . .
476	Lineal feet of Terracotta mouldings, U. windows	1 . .	each	476 . .
25	Terracotta Vases over Verandah Posts	6 . .	each	150 . .
30	Lineal feet of Terracotta Parapets over Drawing room Bow	5 . .	Ll. ft	150 . .
153	Lineal feet of Dining room cornice	2 8 .	Ll. ft	382 8 .
2	Stone columns for Porch	300 . .	each	600 . .
1	Ornamental screen partition with curtain in Hall	700 . .	each	700 . .
12	Cast iron saddles for drawing room beams	30 . .	each	360 . .
1	Bake oven of Brickwork with cast iron doors &c complete			500 . .
1768	lbs of iron work for partitions &c	. 5 .	lb	500 . .
1540	lbs of sheet lead weighing 7 lbs to the foot	. 5 .	lb	481 . .
1	Teakwood gate 8' x 9' to Kitchen yard			130 . .
	Excavations &c			1000 . .
	Total			242422 11 5
	Sundries at 10 percent			24237 4 7
	Total Estimate Rupees			2,66660 . .

John Morant
Major R.E.
District Engineer

Ootacamund
25th Sept. 1878

P. W. D.
4488/13

The Chief Engineer has already pointed out that the high rates for labor and materials on the Hills cannot be avoided. In 1859 Colonel Lawford R.E. was deputed by Govt. to examine the existing data at Wellington - and after going very closely into the whole question he is said to have found it necessary to raise most of the rates. Since that time the rates of labor have risen with the prices of food to what they are now - But few of the indigenous tribes

tribes ever became Artificers these have therefore to be mostly imported from the plains as is also the case in reference to ordinary laborers when large works are undertaken. The rates of course are affected by the expence of living on the Hills and the exceptional climates, [illegible] requirements and great loss accruing from wet days &c, thus the unit of all data the laborers being expensive material is naturally so.

Then again in the matter of lime, none is locally obtainable. The Stone has to be quarried some 45 or 50 miles from Ootacamund carried here 6500 feet above the quarries at considerable expense. while the firewood to burn it is very dear.

The experiment of bringing it up however has often been tried but the loss in carrying up slaked lime is very great and its or adulteration with white clays (Kaolin) invariably takes place. Sand again is obtained with difficulty in small quantities at great cost.

No respectable Contractors are forthcoming on the Hills and the native manufactured bricks are infamous spongy half burnt ill shaped things half of which disappear in loading, unloading and the most jolting of the carts. The cost of carriage is another expensive item due to the high rates of labor, the heavy cost of bullocks and the small loads the carts take in comparison with what they carry in the plains.

Teak has to come from the Mudamullai forest, between 30 and 40 miles from Ootacamund to which it has to be lifted some 3 or 4000 feet. Attempts have been made to obtain timber in scantlings direct from the forest but have been unsuccessful in consequence of the extreme unhealthiness of that locality. The P.W.D. have nothing to do with price charged all round for teak by the Forest Dept. and although the P.W.D have sent, selected and marked beams in the forest it found a very difficult task to get the

Forest Dept. Carriage contractors to cart up beams so marked. Experience shows that the timber coming from Mudamullai has not improved and that for every foot of timber actually placed in a building two have to be cut up, while there is no market for waste timber. The carpenters rates used in the data of 5 Rs per cubic foot of timber wrought and put up are all round rates deduced from the cost of working up all kinds of heavy work such as beams joists trusses struts in &c &c including the labor for sawing, &c &c. The rates for light work requiring greater skill &c. are charged separately - of course if the Forest Dept. charge less per cubic foot delivered in Ootacamund the cost of timber wrought and put up would similarly be affected and reduced. It has been reported that frequent unsuccessful attempts have been made to obtain timber in scantlings from Contractors - a few have come forward but have invariably dropped the work as unremunerative. Lastly it is understood that private individuals gladly× get work done for them by the District Engineer Nilgiris at the District rates and that annually work so done

× obtain Teak Scantlings and

4088/16 ✻

✻ During 1877-78 Rs 35,000 [34890.5..-] were thus expended

amounts to large sums. The District Engineer is compelled to take up such in order that he may find employment for the skilled artificers when no Govt. work is in hand and that he may retain his work people who would otherwise be off to the plains and be not available when required.

15.10.78

This [illegible]
[illegible]

An Extract from Notes supplied to Mr. Grigg for his forthcoming manual is appended. (H)

Detailed Data of Work
at the Lawrence Asylums
(E) - and at Norwood
(F) are attached.
As also a Memoran-
:dum explaining
certain exceptional
circumstances are
explained. (G)

Lodge with other papers
8
1.6.75

P

No. 256

District Engineer's Office
Ootacamund 25th Sept. 1878

4488/17

From
The District Engineer
Nilgiris

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

Sir

I have the honor to forward Plans and Estimates, the latter amounting to Rupees 2,66,660 -.- for constructing a Government House at Upper Norwood at Ootacamund.

2. The Plans as per margin relating to Government House have been sent to the Military Secretary to His Grace the Governor at his request -

1. Final revised tracings of Lower and Upper Floors
2. Tracings of Kitchen, stores &c
3. Two rolls of detailed tracings shewing Sections on lines A.B - C.D - E.F - and G.H

I have the honor to be
Sir
Your most obdt. Servant
John Morant Major R.E.
District Engineer

Roads and Buildings

From

The District Engineer
Nilgiris

To

The Secy to Government
P. W. D.
Madras.

No 256 G O 11 Nov: 1878. 4334 W
" 16 Sepr " 3654 W
3653 W

Dated 25th Septr 1878

Number of enclosures. 1

Government House at Upper Norwood Ooty.

Submits an estimate amounting to Rs 266,660-0-0 for constructing a -

Cir 4-10-78
O. h. Shul: 5 Octr

P. W. D.
4488/18
R 2

The Chief Engineer has already pointed out that the high rates for labor and materials on the Hills cannot be avoided. In 1859 Colonel Lawford R.E. was deputed by Govt. to examine the existing data at Wellington - and after going very closely into the whole question he is said to have found it necessary to raise most of the rates - Since that time the rates of labor have risen with the prices of food to what they are now - But few of the indigenous tribes ever became Artificers - these have therefore, to be mostly imported from the plains as is also the case in reference to ordinary labourers when large works are undertaken - The rates of course are affected by the expense of living on the Hills and the exceptional climate, frequent and great loss accruing from wet days &ca. thus the unit of all data the labourers, being expensive, material is naturally so -

Then again in the matter of lime, none is locally obtainable - The stone has to be quarried some 45 or 50 miles from Ootacamund carried here 6500 feet above the

the quarries at considerable expense - while the firewood to burn it is very dear - The experiment of bringing it up slaked however has often been tried but the loss in carrying up slaked lime× is very great and its adulteration with white clays (Kaolin) invariably takes place - Sand again is obtained with difficulty, in small quantities at great cost.

× Contractors will not carry burnt lime as it injures their cattle -

No respectable Contractors are forthcoming on the Hills and the native manufactured bricks are infamous spongy half burnt, ill shaped things half of which dis-appear in loading, unloading and from the mere jar of the carts. The cost of carriage is another expensive item due to the high rates of labor, the heavy cost of bullocks and the small loads the carts take, in comparison with what they carry in the plains.

Teak has to come from the Mudamullai forest, between 30 and 40 miles from Ootacamund to which it has to be lifted some 3 or 4000 feet. Attempts have been made to obtain timber in scantlings direct from the forest, but have been unsuccessful in consequence of the extreme unhealthiness of that locality. The P.W.D.

have

have nothing to do with price charged all round for teak by the Forest Depart^t. And although the P.W.D. have sent, selected and marked beams in the forest it is found a very difficult task to get the Forest Depart^t. Carriage Contractors to cart up beams so marked. Experience shows that the timber coming from Mudamallai has not improved and that for every foot of timber actually placed in a building *quite two* have to be cut up — while there is no market for waste timber. The carpenters rates used in the data of 5 Rs per cubic foot of timber wrought and put up are all round rates deduced from the cost of working up all Kinds of heavy work such as beams, joists trusses, struts in partitions &ca. &ca. including the labor for sawing, moving, lifting &ca. &ca. &ca. – The rates for light work requiring greater skill &ca. necessarily are charged separately – of course if the Forest Depart. charge less per cubic foot delivered in Ootacamund the cost of timber wrought and put up would similarly be affected and reduced. It has been reported that frequent unsuccessful attempts have been made to obtain timber in scantlings from Contractors

a few have come forward but have invariably dropped the work as unremunerative. Lastly it is understood that private individuals gladly obtain teak scantlings and get work done for them by the District Engineer, Nilgiris at the District rates and that annually work so done amounts to large sums. The District Engineer is compelled to take up such in order that he may find employment for the skilled artificers when no Govt. work is in hand and that he may retain his work people who would otherwise be off to the plains

and

and tea not available when required -

E A Wood Coll R.E.
Chief Engineer P.W.D.

Fort St George
21st Nov /78

P.S. An extract from Notes supplied by Dr. Cage to Mr. Grigg for his forthcoming manual is appended (H.)
Detailed Data of work at the Lawrence Asylums (E) and at Norwood (F) are attached - and also a Memorandum explaining certain exceptional circumstances. (G)

Cir 21-11

P. W. D.
4488/22

Letter from the D.C. Nilgiris No. 256 d/ 25th Septr. 1878.

The estimate has been reduced 32,000 Rupees - but the ates Nevertheless excessive s they Stand -
eak wood is charged at R5 r cub foot - In the rough heavy beams joists & tuds in partitions - all ight work flooring or boxing harged separately -
he total of this item is 33000 R.
e excess for this is the ate charged by the Forest - and excessive waste - which is tated to be 25 p.c. on sawing d another 25 p.c. on working — The cartage rate from yard to building is excessive -

Circulated to His Grace the Governor.
The estimate has been revised and reduced in amount in accordance with the verbal instructions of His Grace the Governor. The rates remain the same the reduction has been effected by the omission or alteration of some of the items.

The Consulting Architect has been called on to supply a less expensive

design for the Coachman's
house, gate, lodge &c.

E A [illegible] Col: R.E.
Secy: to Govt. P.W.D.

4th Octr 1878.

His Grace the Governor

The waste arises from the Forest
[illegible] up timber with a
large amount of wastage instead
of trimming close in the Forest
[illegible] instead cut of castage
up — The P.W.D. take [illegible]
from Forest — as if the [illegible]
was solid timber — without
insisting on any allowance for
faults decayed places &c
&c —
In fact a fictitious [illegible]
is given to Forest dept which
general market does not &
would not give — & I think
it is not right that ~~that~~ [illegible]
the case for Govt work — I think
P.W. should endeavour to obtain
tenders for the [illegible]
requirements of either [illegible] or
Native Teak deliver at Ooty
or at Mettapollium &c as [illegible]
be judged best — to test the [illegible]
rates — Forest dept can of course
tender — I have not yet —

Seen the complete elevations of the two houses.
16/10

recd 21-11
Cir 4-10-78. ret 21-11.
O. h. Shiel 5 Octr
Cir 21-11

6

No 4488 W **Public Works Department** 4488/23

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 25th Novr /78.

Read the following :—

From, The District Engr.
Neilgherries } (H.E. No 256 d/ 25th Septr /78.)
Memorandum by Chief Engr. P.W.D. dated Novr /78.

The plans and estimates amounting to Rs 2,66,660 for a Government House at Upper Norwood, Ootacamund, are sanctioned.

The excessive ~~cost~~ charge for teak supplied by the Forest Department, [without ~~the~~ allowance being made for faults which may possibly be afterwards discovered in the timber] will be brought

and the great wastage in [illegible]

8/11

23/11

brought to the notice of the Conservator of Forests. The Government cannot but come to the conclusion that in this way a purely fictitious revenue ~~is~~ has been & is made to appear in the accounts of one Government Department, and correspondingly shown as a debit in the accounts of another.

The extreme highness of the rates generally has also attracted the attention of Government, [But the Memorandum by the Chief Engineer recorded in these Proceedings

The D.C. will obtain tenders for future supplies needed - & only purchase from F.D. when their price ~~or equal~~ does not exceed the prices so obtained & their conditions as to quantity & quality are equally favourable.

7 P.W. Works 448/24

satisfactorily explains the reason of this.]

The Examiner is authorized to pass the expenditure incurred prior to this Official year. The expenditure to date since 1st April has been covered by appropriations. And the question of supplementing these grants is now under consideration in the Financial Department.

EMF 19/11

WH 18.11.78

upt. Engr. Fourth Circle

ngr: Architect

xec. P. W. Acctnt With 1 Estimate

Revenue Dept.
enl. Departt

Private Secy: to His Grace the Governor

This sanction has been registered as Provincial No: 1313 of 1878-79.

Dept 9-12-78

Cn 13807

Govt. of (1878) Madras.

PUBLIC WORKS.

K.W.

27-11-78

2-30 PM

To

Dated

Issued

Recd.

G. O. 25th Nov 1878, No. 4488 W.

Nos. 272-273

Govt. House at Upper Norwood, Ootacamund

Sanctions with remarks plans & Estimates for a —