M.R.O. 14—10,000—21-4-22.

MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

G.O. No. 2316 — Press ~~Mis.~~

144-145

Dated 16 — 12 — 1861.

Not to be folded or roughly handled

No. 144. Read the following Endorsement of the Chief Engineer, dated Chepauk, 10th December 1861, No. 8,158 :—

Read the following letter from Captain JOHN GODDARD, District Engineer of Coimbatore, to Lieutenant-Colonel W. I. BIRDWOOD, Deputy Chief Engineer, Southern Circle Madras, dated Coimbatore, 3rd October 1861, No. 292.

SIR,

1. In your Order No. 2,634, dated 13th July 1861, upon Proceedings Madras Government, No. 1,328, dated 3rd idem, I was requested to adopt measures for the immeditate construction of a Cinchona propagating house, in communication with Mr. McIvor at a cost not exceeding Rupees 1,500.

2. In consequence of receipt of the above order, I issued immediate instructions to Captain Farewell, and the result of the order is the submission by Captain Farewell, in communication with Mr. McIvor, of the enclosed documents,* in reference to which I have to solicit your immediate orders.

* 1 Plan.
1 Estimate amounting to Rupees 3,930.
1 Specification.
1 Original letter No. 51, dated 12th August 1861, from Captain Farewell.

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1 Letter from District Engineer, No. 292, dated 3rd October 1861.
1 Do. from Captain Farewell, dated 12th August 1861.
1 Specification.
1 Plan.
1 Abstract Estimate.

1. Submitted to Government, with reference to paragraph 5 of their Proceedings, No. 1,328, dated 3rd July 1861. A full specification accompanies the Estimate explaining the description of building intended to be erected, and the several details connected therewith. Government will observe that the estimated cost, viz., Rupees 4,100 is Rupees 2,600 in excess of the sum named by them in their Proceedings above quoted. This sum, therefore, will have to be provided, in the first instance, from the Reserve Fund of the current year and debited eventually to the Cinchona experiment.

2. The work is being executed under Mr. McIvor's immediate superintendence. It is not clear whether this was intended by Government. Captain Farewell will, however, be instructed to examine the building when completed, and report whether it has been carried out in accordance with the Plan, Estimate and Specification now submitted and in a satisfactory manner.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Chief Engineer.

No. 145. ORDER THEREON, 16th December 1861, No. 2,316.

The Government understand that the building is completed, and request that the Bill for it may be submitted without delay.

(Signed) C. G. MASTER,
Deputy Secretary to Government.

Indorsed 10th Sept 1861
No 1284

Executive Engineer's Office
Kilgiris
Ootacamund 12th August 1861.

From

Captain D. Forsyth.
Executive Engineer

To

Captain J. Goddard
District Engineer
Coimbatore

Sir,

With reference to your Letter No. 65 dy 28th July 1861, together with its Enclosure herewith returned, I have the honor to forward a plan and Estimate for a Cinchona propagating House to be built in the Government Gardens at this station - The plan has as much as been prepared in communication with Mr. McIvor Superintendent of the Government Gardens, who approves of all its details &c. and in token of which has signed the Plan and Specification -

2. The Plan Estimate &c. have been prepared by me but Mr. McIvor reports that he intends to Execute the work himself and states that most of the woodwork for the Building is already completed, glass and other materials for its construction have been collected; such being the case I think Mr. McIvor had better as suggested by himself, complete the work for which of course I cannot be held responsible, except so far as Examining it when completed, and comparing the work performed with Specification Plan &c. and reporting thereon -

3. The Estimate you will observe much exceeds the amount Sanctioned by Government, which is owing to several additions having been required to be made to the Propagating Stands by Mr. The Secr, and which have been included in the Estimate.

I have the honor to be
Sir
Your most Obd. Servant

W. Chamberlain
Executive Engineer

To
Isaac Stain
Esq.
&c. &c. Coimbatore

New work

BUILDINGS

Abstract of Estimate No. of 186 -6

District Coimbatore

Work Constructing a Propagating House with Furnaces, Hot air flues Pro-pagating frames &c Complete for the Cinchona Forest Govt Gardens at Kotacamund

Quantities.	Description of Work.	Rate. Rs.	A.	P.	Amount. Rupees.	Amount of each part. Rupees.
1200½	Cy^d Excavation ——— Cy^d	"	2	"	150	
3515½	C^ft Brick in Chunam — 100 C^ft	35	"	"	1230	
636	do Brick in Mud ——— do	20	12	"	132	
449½	do Brick in Cement ——— do	38	"	"	171	
54148⅔	Sup^ft Plastering Polished — Square	7	"	"	381	
1131⅓	do Coloring outside ——— do	"	12	"	9	
4365	do Whitewashing inside ——— do	"	8	"	22	
1299	do Tiled Roofing ——— do	37	"	"	481	
1140	do Untiled Roofing ——— do	21	"	"	92	
1500	Fire Bricks ——— per 1000	20	"	"	30	
15	Frames and Glazed Sashes for Roof —— Each	32	"	"	480	
15	Frames for Propagating House inside ——— Each	18	"	"	270	
1	Windows Complete ——— Each	10	"	"	40	
5	Doors Complete ——— do	18	"	"	90	
8	Sets of Rollers and Sun Shades Complete Each	17	"	"	136	
55	Running feet of Lead gutter, per foot	1	"	"	55	
10	do Lead pipe —— Each	"	8	"	5	
1	Table for potting room ——	8	"	"	8	
1	Box for —Do— ———	18	"	"	18	
	Carried Over ———				3800	

Quantities.	Description of Work.	Rate. Rs.	A.	P.	Amount. Rupees	Amount of each part. Rupees.
	Brought Over				2800	
2	Wrought Iron furnace grates Each	6	"	"	12	
2	—D:— furnace doors Each	12	"	"	24	
101	Rft. of 3/4 inch teakwood boarding — 1 foot	"	1	"	25	
1	Mastry for 2 months 1 Month	20	"	"	40	
	Sundries				199	
					Rupees —	4100
	Deduct Amount already sanctioned once on the 3d July 1861 Rs. 1326					1500
	Net Amount requiring sanction					2600

Central Office of D.W.
Chepauk,
10th December, 1861.

Lt. Colonel & Lieut
Chief Engineer D.P.W.

In charge 1st Sept 1861
by the 14th

Specification of Sundry works required to be done in Building a Propagating House, with, Furnaces Hot air flues and propagating frames complete, for the Conchord Forest Government Gardens, Ootacamund

Amount of Estimate, Rupees ~~Three~~ Four Thousand ~~and eighty~~ (~~3080~~ 4100)

The Building is to be raised on Stone dw 2 feet high which are to be sunk 1 foot 6 inches, below the face of the earth. The principal walls are to be 1 feet 6 inches thick

The building is to contain Four rooms viz

One Propagating Room	50 Feet 6 inches long	by	12 Feet 6 in broad	
One Potting Room	18 " 8 "	by	10 " — "	
One Store Room	20 " 0 "	by	5 " — "	
One Furnace and Store Room.	29 " 4 "	by	5 " — "	

The Walls of the building to be of Brick in Chunam, Pillars at 6 feet 8 inches from centre to centre, the intermediate portions of the walls, above the foundations, to be of burnt bricks in mud and sand, The bricks to be the best hard burnt, sound bricks, and the mortar, to be composed of One of Chunam to Three of the best dry sand

The whole of the Building inside, and outside, to be plastered with mortar and finished off with two coats of jelly rubbed quite smooth, the outside will be colored stone color and the inside whitewashed. in the furnace room will be built two furnaces, with wrought iron grates, Frames, Doors, Latches, and Hinges complete, the hot air flues and ascending flues will be cored and pargetted, and inside the furnaces and about 10 feet along the hot air flues, next the fire space will be lined with fire bricks, the chimney shafts will be carried 5 feet above the roof. The potting room will be supplied with a good, sound, strong teakwood table 4½ feet long by 2½ feet wide, the top to be 3 inches thick, firmly bolted together with iron bolts, a box with three compartments, each compartment to be 2 feet 10 inches by 3 feet, will be fixed alongside of the table fitted with three lids or flaps, hung with two 3 inch wrought iron butts &c. The Doors and windows throughout the Building to be of 1½ inch prepared teakwood, with all necessary fastenings hooks, eyes &c. and hung with 3 inch wrought iron butts

The Roof

Roof of the Potting room potting store room
room, and likewise part of the propagating
tiled, the tiles to be of the best malm clay
and free from cracks, the front part of the pro
ion, will be roofed with Teakwood frames and
scantlings of frames 4 inches by 3 inches and sashes
4 inches, the under flange of the rabate of the
grooved to allow of the water running from
sash and the frame into the lead gutter provided
drainage. The sashes will be hung or fastened to
the three 3 inch wrought iron butts at the top, and
will be fitted a semicircle, saw edged wrought
with wrought iron staples, Studs, Stud pins, com-
of the sashes being raised and for keeping them
admission of fresh air as often as required
ole of the sashes inside and outside, to be painted
of good lead paint, the whole of the glass
own glass, 8 inches wide, to be fixed in putty
Boiled Linseed oil in which they will be bedded
erlaid with putty to prevent any leakage
ts of Teakwood rollers for Sun blinds, provided
shades, fixed with sliding rods, Boxings Pully's
&c. complete.

gutterng will be fixed to convey the Roof drain
roof to 1½ inch lead pipe at each end of the
ding into cisterns as shewn in plan, 8 feet long
es wide, The cisterns to be built of Brick in Cement
perfectly prater tight

.....
Office } Superintendant of
..... } Government Gardens

Executive Engineer

Captain
Dy Engr Commanding

A128/20
22/154

Plan Section and Elevation
of the proposed Propagating House for the
Cinchona Farm
Cotacamund

Scale of 10 feet to one Inch

Plan of Roof

Plan

the dotted lines over the flues shew the divisional walls to receive the propagating frames

Table

Store Room 20.0 × 8.0

Furnace and Store Room 29.8 × 8.0

Potting Room 29.8 × 10.0

Propagating Room 30.6 × 12.6

Cistern 6.0

Cistern 6.0

A

B

C

43 0"

Section A.B.
shewing hot air flues

Elevation

Section
shewing Fixings and Sashes

Section C.D.

Scale 1 inch to 1 foot

Section
shewing roof, round gutter and pipe for discharge of Rain from roof and preventing the rain water

Reference

Amount of Estimate Rupees ~~3050~~ 6030

Nature of Soil Hard

Brick in Chunam

Brick in Mud

Executive Engineer

Cotacamund
Executive Engineers Office
9th August 1861

Superintendant of Government Gardens
Cotacamund

No 8158.

Encls: 5

1 Letter from Dr Eng.r No 297 d/3 Oct.r 61.
1 do- from Capt.n Farewell d/12.th August 1861.
1 Specifications
1 Plan
1 Abstract Estimate

Submitted to Government with reference to para 5 of their Proceedings No 1328, dated 3.d July 61.

A full specification accompanies the Estimate explaining the description of building intended to be erected and the several data on which the Government will base

Rupees 4,500 or Rupees 2,600 in excess of the sum named by them in their Proceedings above quoted. This sum, therefore, will have to be provided in the first instance from the Reserve fund of the Current Year and debited eventually to the Cinchona experiment.—

2. The Work is being executed under Mr. Mc Ivor's immediate Superintendence - It is not clear whether this was intended by Government - Captain Farewell will, however, be instructed to examine the Building when completed and report whether it has been carried out in accordance with the Plan, Estimate & Specifications now submitted, and in a satisfactory manner.—

Central Offices of P.W.
Chepauk
4.th December 1861

Chief Engineer L. P. W.

To
J. D. Sim Esq.re
Secretary to Government P.W.D.
Fort St. George.

Cord K

To Gauntlett & Co's No 8158.

Specn
Worked
a Rod
the Ca
Inscd

R. 3 July 61 No. 49 to 54
" 4 Sept 61 " 17 68

No. 144 & 145.

1861. Revenue Department
Pro. of Govt. Fort St. George
No. 2316

From
Lt. Colo. H. H. Horsley
Chief Engr. D. P. W.

To
J. D. Sim Esqre
Secy. to Govt. F. St. D.
Fort St. George

Dated 10th December 1861
Rec'd 10th
Read 11th
No. 8158.
Encs 5

Submits, for sanction, a Plan & Estimate amounting to Rs. 100. for constructing a Cinchona Propagating House at Kotacamund in the District of Coimbatore.

No. 2316. 16th December
With an Order

No 2316

The Govt. understand that the building is completed and request that the bill for it may be submitted without delay.

Fort St George
16th Decr 61

J. R. S.

W. M.

The Copies to the Chief Engr
Dec. 16