

(1) Number of pages 52(2) Date of repair 10-12-38(3) Initials of the Referencer GP**MADRAS RECORD OFFICE.****Government of Madras.***Public Works* **DEPARTMENT.***Consolidated 20.1.1860*

G.O. No.	95	Press Mis.
Dated	13-1-	1860.

Not to be folded or roughly handled*15/12/38*

*Proceedings of the Madras Government, Public Works Department,
for the month of January 1860.*

No. 25. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer ;
to J. D. BOURDILLON, Esq., Secretary to Government, dated 27th December 1859,
No. 8742.

In letter from Civil Architect, dated 16th
December 1859, No. 1065.
1 Original letter.
2 Plans.
2 Abstract estimates.
1 Memorandum.

I have the honor to submit the accompanying plan and
estimate for repairs and improvements to the building called
the Mahkama at Sépakkam designed to adapt it for a resi-
dence for the Principal of the Engineering College.

2. The estimate for the main building amounts to
Rupees 13,530 and provides for necessary repairs, and improvements.

3. The godowns and stables appear to me unnecessarily capacious ; but the submission of
the plans and estimates has been so long delayed by repeated discussions between the Civil
Architect and the Principal, that to avoid further loss of time by references, I think it best to
lay the papers as they are before the Government, with the intention under its approval of
making such reductions in the accommodation as may appear advisable.

4. As reported in my letter of the 18th November 1859 No. 7392, the repairs were
commenced some time ago, and I have now in compliance with the personal
Paragraph 5. direction of the Honorable the Governor instructed the Civil Architect to
prosecute the works vigorously to completion.

5. The rates of the estimate are those which the Civil Architect has found necessary in
consequence of the increased prices of material and labor and which have been approved in
this office.

6. The amount of the estimate for which sanction is now requested is Rupees 19,500
nineteen thousand five hundred.

No. 26. ORDER THEREON, 13th January 1860, No. 95.

The estimate submitted with this letter, amounting to Rupees (19,500) nineteen thousand
five hundred, is sanctioned for entry in the budget for the year 1860-61.

(Signed) T. PYCROFT,
Chief Secretary.

(Buildings)

(New Work)

Abstract of Estimate No of 185 / 5

District Madras.

Talook—

Work—Making additions alterations and thorough repairs to the building of the Mahkamah in Chippank Palace for the Residence of the Principal of the Civil Engineering College.

Quantities.	Description of Work.	Rate.	Amount.	Amount of each part.
C. Yards.		No. a p.	Rupess.	Rupess.
	No. 1			
	Lower Story			
4091	Cft Brick work in Channam	2 3	575	
102	D. Flat arch work in D. D.	3	19	
102	D. Cornice work in D. D.	3 3	21	
1142	Supft. Terracing with jelly in Channam over the plank	1 12	20	
1850	D. Plastering with 3 Coats Channam	3 8 6	65	
689	D. D. 3 Coats Yellow Channam	3 13	26	
3000	D. Taking off Old plaster & replastering with 3 Coats Channam	3 16 6	112	
2000	D. D. 3 Coats Yellow Channam	3 13	76	
1928	D. Removing the Old floor & reflooring with new 8 in sq bricks in Channam & a levelling Course of Old bricks underneath	6 12	130	
	Carried Over		1044	

Quantities.	Description of Work.	Rate	Amount	Amount of each part
C.Yards.				
24	Supp ^d Removing the old floors & reflooring with new 8 in. Sq. bricks in chimneys to the chimneys— 7.50	6	7	139
	Coaly hire for removing the old stair case & replacing new one & landing in house			11
	Cutting the walls & joining the beams in masonry—			8
	9 th the walls & fixing 10 new doors & 8 window frames in masonry—			56
	Coaly hire for taking down and removing part of the terrace & walls &c—			56
	Excavating the foundation			5
210	C ^{ts} Teakwood mantel & put up— 7.50			350
1034	Supp ^d Lining plans with battens & nails over the beams & joists— 2.50	16	12	175
	Lining with planb. & nail over the beams between the joists—			10
	14 Pairs Pannell'd Venetian doors with frames hooks hinges & bolts &c Complete—			195
		30	6	2139
	Carried over			

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over			2139
5	Pairs Pannell'd glazed shutters with thick iron hinges & bolts &c Complete &c	27	12	139
4	Pairs Pannell'd Venetian doors with frames hooks hinges & bolts &c Complete &c	20	4	81
4	Pairs D-glazed doors with thick iron hinges & bolts &c Complete— D	18		72
8	Pairs Venetian window shutters with frames hooks hinges & bolts &c Complete	26	1	209
8	Pairs Glazed window shutters with thick iron hinges & bolts &c Complete— D	18		144
1	Teakwood Stair Case &c Complete as of floor in line of old one for leading to the upper story—			200
10	Brass locks—			35
	White paint 3 Coats—			60
	Green paint— D —			100
88	Supp ^d Shed roof for covering over the doors &c Complete &c	35		31
	Difference of price in 680 C ^{ts} of teakwood between 1/4 & 3/8 C ^{ts} of			
	3 1/2 Ropes—			312
	Carried Over			3522

Quantities	Description of work	Rate		Amount	
		No	at	Rupies	Rupies
	Brought over			3522	
	Sundry Charges & scaffolding			78	3600
No 2					
2 nd Story					
1849	Brick work in Chuanam	2	6	289	
90	Flat arch work in D	3		17	
99	Cornice work in D	3	3	20	
1155	Suppl ^g Terracing with jellyin				
	Chuanam 2 in thick over				
	the planks	1	12	20	
1550	Plastering with 3 Coats				
	Chuanam	3	8 6	55	
640	D with 3 Coats Yellow Chu				
	nam	3	13	24	
3000	Taking off old plaster				
	& replastering with 3 Coats				
	Chuanam	3	11 6	111	
2000	D with 3 Coats Yellow				
	Chuanam	3	13	76	
1900	Flooring with 8 in Sq ^r				
	bricks in Chuanam	6	3	118	
	Cutting the walls & fixing 11				
	doors & 8 window frames			38	
	in Masonry				
	Cutting the walls & fixing the				
	beams in Masonry			3	
	Carried over			771	3600

Quantities	Description of work	Rate		Amount	
		No	at	Rupies	Rupies
	Brought over			771	3600
	Cooly hire for taking down				
	& removing part of the				
	old terrace & walls & collect				
	ing the old materials			60	
210	C ^t Teakwood wrought and				
	put up	1	13	380	
1034	Suppl ^g Lining planks with				
	battens & nails	16	12	173	
	Lining with planks & nails				
	over the beams between				
	the joists			10	
15	Pairs pannelled Venetian				
	doors & Complete	30	6	456	
4	Pairs	20	4	81	
8	Pairs Venetian window				
	Shutters & Complete	26	13	209	
5	Pairs Pannelled Glazed				
	doors & Complete	27	12	139	
4	Pairs	18		72	
8	Pairs Glazed window Shut				
	ters & Complete	18		114	
210	Suppl ^g Shed roof for covering				
	over the doors & windows				
	& Complete	35		84	
1	Teakwood Stair Case Complete			150	
10	Brass locks			35	
	Carried over			2764	3600

Quantities	Description of work	Rate		Amount of each part	
		Rs	P	Rupies	Rupies
	Brought Over			2766	3600
8	Teakwood water Sprouts each 3 feet long			8	
8	Teakwood water trunks 8" & also lead Colour				
3	Coats over the same &	17	8	140	
	Only here for fixing the water trunks with teakwood &				
	Complete			16	
8	Granite Stones			3	
	White paint 3 Coats			66	
	Green paint 9			110	
	Difference of price in 690				
	Ct of teakwood between 1 & 2 1/8 Ct of 3 1/2 Rupies				
	Charged in the date & the rates of the Market			316	
	Sundry Charges & Scaffolding &			77	
					3500
	Total Cost for the Repair				7100

reams in

Quantities	Description of work	Rate		Amount of each part	
		Rs	P	Rupies	Rupies
	Brought Over				
	No 3 Portcocher				
552	Ct Brick work in Churnam & Ct	2	3	78	
6	Columns 8" & plastering				
	8" Complete as per Plan &	10	8	63	
38	Ct Cornice work in Churnam & Ct	3	3	8	
352 1/2	Suppl. Terracing with brick on edge Jelly 3 in thick 3				
	Course flat tiles & plastering				
	3 Coats Churnam — 7 1/2 Sq. m	23		81	
700	D. Plastering with 3 Coats Churnam — D	3	8	6	25
375	D. Laying with laterite stone jelly in Clay & Gravel of 6 in thick & well beaten down with water — D	2	9	4	9
	Excavating the foundation —				1
110	Ct Teakwood wrought and put up — 7 Ct	1	13	199	
	White paint 3 Coats —				12
	Difference of price in 151 Ct of teakwood between 1 & 2 1/8 Ct of 3 1/2 R. Charged in the date & the rates of the Market				69
	Sundry Charges & Scaffolding &				15
					560
	Carried Over				560

Quantities	Description of work	Rate	Amount	Amount of each part
		Rosd P	Rupess	Rupess
	<u>No. 1</u> Brought over			560
1	Circular Portico on the South Side of the building adjoining the Porticoes			
346	C ^t Brick work in Churnam of C ^t	2 3	119	
6	Columns 8 th and plastering 8 th Complete as per Plan	10 8	63	
9	C ^t Cornice work in Churnam of C ^t	3 3	2	
275 1/2	S ^{up} Terracing with brick on edge jelly 2 ins thick and plastering 3 Coats Churnam to the Ceilings — 7 Sq ^m	12	33	
200	D ^o Plastering with 3 Coats Churnam — 200 — 200	3 8 6	7	
230	D ^o Flooring with 8 ins Sq ^m bricks in Churnam & a levelling Course of old bricks underneath — 200	6 8 10	15	
1	Circular Masonry Steps 8 th Complete as per Plan for bonding to the Portico		13	
	Excavating the Foundation		1	
	Cooly hire for taking down & removing the 2 Old V ^o — 10		10	
58	C ^t Teakwood wrought and put up — 58	1 13	108	
	Carried over		298	560

Quantities	Description of work	Rate	Amount	Amount of each part
		Rosd P	Rupess	Rupess
	Brought over		298	560
	Joining with planks & nails over the beams between the Joists —		5	
	White paint 3 Coats —		7	
	Difference of price in 80 C ^t of teakwood between 18 2/3 C ^t & 3 1/2 Rupess —		37	
	Sundry Charges & scaffolding &c —		7	
				35 1/2
	<u>No. 5</u>			
1	Portico on the east side of the Building			
790	C ^t Brick work in Churnam of C ^t	2 3	111	
25	D ^o Cornice work in — D ^o — 25	3 3	5	
240	S ^{up} Terracing with brick on edge jelly 2 ins thick & plastering 3 Coats Churnam to the Ceilings — 7 Sq ^m	12	29	
175	D ^o Plastering with 3 Coats Churnam — 200 — 200	3 8 6	6	
5	Columns 8 th Complete as per Plan — 5	10 8	53	
160	S ^{up} Flooring with 8 ins Sq ^m bricks in Churnam & a levelling Course of old wall bricks underneath — 160	6 8 10	10	
	Carried over		214	914

Quantities	Description of work	Rate	Amount each part	Amount of
		Rd & P Rupees	Rupees	Rupees
	Brought over	214	914	
56	Suppl ^d Flooring with 8 in Sq ^d bricks in Chunam between the Columns & sq ^d	6 3	3	
	Constructing a Masonry Step 8 th Complete as of Plan		25	
	Cutting the walls & fixing the breastsummers & Joists in masonry		6	
	Excavating the foundation		1	
57	Cft ^d Teakwood wrought & put up	1 13	104	
	White paint 3 Coats		7	
	Difference of price in 78 1/2 Cft ^d of teakwood between 14 & 2 1/8 Cft ^d & 3 1/2 Rupees		36	
	Sundry Charges & scaffolding &c		11	
			405	
<u>No. 6</u>				
<u>Back Stair Case Room</u>				
1728	Cft ^d Brick work in Chunam & sq ^d	2 3	213	
114	D Flat arch	3	3	
25	D Cornice work	3 3	5	
1075	Suppl ^d Plastering with 3 Coats Chunam	3 8 6	38	
	Carried over	289	1319	

Quantities	Description of work	Rate	Amount each part	Amount
		Rd & P Rupees	Rupees	Rupees
	Brought over	289	1319	
160	Suppl ^d Flooring with 8 in Sq ^d bricks in Chunam & a levelling Course of old bricks underneath & sq ^d	6 8 10	10	
	Constructing a Masonry Step 8 th Complete as per Plan for landing to the Stair Case Room		6	
	Cutting the walls & fixing the Joists of the landing in masonry		3	
	Excavating the foundation		2	
19	Cft ^d Teakwood wrought & put up	1 13	35	
118	Suppl ^d Lining planks with battens and nails over the Joists of the landing	16 12	8	
	1 Teakwood Common Rails 1/2 ^d over the planks of the landing		5	
	1 Pair Batten door with frames hooks hinges & bolts &c Complete		15	
	1 Iron lock of 8 in Complete		2	
	Carried over	375	1319	

Quantities	Description of work	Rate	Amount	Amount of each part
		Rs. & P.	Rupess	Rupess
	Brought Over		375	1319
1	Common Teakwood stair Case with rise tread and side planks joists String boards plain skirting nosing and common rails inclu- sive of top frames & also wood Oil 1/2 ^{co} Complete as 7 Plan —		220	
	Wood Oil 3 Coats to the beam & landing —		1	
	Green paint 3 Coats with Europe Undypress to the doors —		3	
	Difference of Price in 38 C ^{ts} of teakwood between 1/4 & 2 7/8 C ^{ts} & 3 1/2 Rupess charged in the data of the rates of the Market —		17	
	Sundry Charges & scaffolds ing 1/2 ^{co} —		11	
				530
	Carried Over			1849

Quantities	Description of work	Rate	Amount	Amount of each part
		Rs. & P.	Rupess	Rupess
	Brought Over			1849
	No 7 Platform and a step all round the building			
935	C ^{ts} Brick work in Chur- nam for building foundation and basement of retain- ing walls — 7 C ^{ts}	2 3	132	
350	Sup ^{ft} Plastering with 2 Coats Chumam — 7 sq ^{ft}	2	7	
972	D Flooring with 8 ins Square bricks in Chumam and a levelling Course of old wall bricks under neath — D	6 8 10	64	
234	D Flooring with 8 ins Square bricks in Chur- nam over the Retain- ing walls — D	6 3	14	
	Carried Over		217	1849

Quantity	Description of work	Rate	Amount	Amount of each part
		Rs 49	Rupies	Rupies
	Brought over	217	1849	
1	Masonry step sim- square bricks flow- ing and plastering 8" Complete as per Plan within the plat- form		7	
	Excavating the founda- tion filling and levelling the earth to the basement		3	
	Sundry Charges and Scaffolding 8"		13	
				240
	No 8 2 nd Story			
230	1 Circular Portico on the South Side of the build- ing			
	Cft Brick work in Chunam	26	36	
	Carried over	36	2089	

Quantity	Description of work	Rate	Amount	Amount of each part
		Rs 49	Rupies	Rupies
	Brought forward		36	2089
25 1/2	6 Columns each of 6 in. diameter with granite banding stones and plastering 3" Complete as per plan	33	5	
245 1/2	Suppl. Ironing with built on edge 3 1/2 in thick 3 Cores flat tiles and plastering 3 Cores Chunam	25	63	
250	1/2 Ironing with 3 in square bricks in Chunam	6	15	
1175	1/2 Plastering with 3 Cores Chunam	3	14	
	Putting the wall and fixing the 2 ends of the brass runners		1	
54 1/2	Cft Teakwood wrought and put up	1	98	
	Lining with planks and nails over the brass runners between the doors		1	
	White paint 3 Cores to the brass runners & doors 3"		6	
	Difference of price in 1/2 Cft of Teakwood between 4 & 25 1/2 Cft per 3 1/2 Rs. charged in the Rates the rates of the market		3 1/2	
	Carried over	330	2089	

Quantities	Description of work	Note	Amount	Amount of each part
		Rs. P. S. P. S.		Rs. P. S.
	Brought forward		330	2089
	Sundry Charges and Scaffolding &c.		7	337
<u>No. 9.</u>				
	1 Portico on the east side of the building			
210 7/8	Culfr. Brickwork in Channam	2 6	35	
21 3/4	Do. Cornice work in Channam	3 3	5	
	4 Columns each of Doric order with bonding Granite Stems and plastering &c. complete	8 7	34	
232	Suppt. Terracing with broken edge. 3 ins thick			
	3 courses of fluted stone plastering 3 coats Channam	Sq. 23	53	
530	Do. Plastering with 3 coats Channam	Rs. 3 8 6	19	
200	Do. Flooring with 8 ins square bricks in Channam	6 3	12	
	Cutting the walls and fixing the breastsummers and Joists in masonry		7	
47-10-6	Culfr. Teakwood wrought and put up	Sq. 1 13	34	
	Carried over		255	2426

Quantities	Description of work	Note	Amount	Amount of each part
		Rs. P. S. P. S.		Rs. P. S.
	Brought forward		255	2426
	Lining with planks and nails over the breastsummers between the Joists		4	
	White paint 3 coats to the breastsummers and Joists &c.		6	
	Difference of price in Culfr. of teakwood between 1 and 2 1/2			
	Culfr. 7 3/4 Rs. charged in the Data and the rates of the Portico		30	
	Sundry Charges and Scaffolding &c.		7	302
<u>No. 10</u>				
	Wooden Balcony on the east side of the building ad. joining Portico			
18 1/2	Culfr. Teakwood wrought & put up	Sq. 1 13	33	
115 1/2	Suppt. Lining with teakwood planks bottom and nails of 3/4 ins thick over the Joists of the balcony	Sq. 16 12	19	
	Lining with teakwood planks and nails to the Cove of the balcony	" "	7	
	Carried over		53	2728

Quantity	Description of work	Rate	Amount	Amount of each part
			Papies	Papies
	Brought forward		53	2728
	White paint 3 coats to the above wood work		7	
	Cutting the walls and fixing the Sills 9" in masonry		4	
	Difference of price in 15 Calf. of treated wood between 1825 & 1827 per 3 1/2 Cts charged in the Data and the rate of the Market		21	
	Sundry charges & Scaffolding 8"		5	
				90
	N ^o 11			
	Paint Put over the wooden Balcony			
15 3/4	Calf. Treated wrought iron put up	1-15	28	
8	Treated posts each with leadings, caps and iron hooks 8"	2	16	
210	Sup ^t Lining with plank and nails 5 1/2 thick including lapping 1" over the rafters of the roof	Sup ^t 16	34	
	Lining with treated plank and nails to the roof of the above roof		1	
	Carried over		79	2818

Quantity	Description of work	Rate	Amount	Amount of each part
			Papies	Papies
	Brought forward		79	2818
30	Sup ^t Lining with plank frame and nails at the 1/2 gable ends over the breastings 16"		5	
	Treated Common rails with top and bottom frames between the posts over the wooden balcony		17	
	Cutting the walls and fixing the rafters and breastings in masonry		6	
	White paint 3 coats to the roof		13	
	Difference of price in 112 Calf. of treated wood between 1825 & 1827 per 3 1/2 Cts charged in the Data and the rate of the Market		19	
	Sundry charges and Scaffolding 8"		6	
				115
	N ^o 12			
	Back Stair Case Room			
99 1/4	Calf. Brick work in Chancery	2 6	155	
11	Do. Plaster work in	3	3	
25	Do. Cornice work in	3 3	5	
700	Sup ^t Plastering with 3 coats Chancery	Sup ^t 3 8 6	25	
	Carried over		188	2963

Quantities	Description of work	Rate	amount	amount of each part
		Pt 1st 2d Paper Paper		
	Brought forward		188	2963
2017/8	Suppl ^e Terrace with brick on edge, belly 3 in thick and 3 courses flannels and plastering 3 coats Chumam	Spr 23	46	
	Cutting the walls and fixing the seats 9" in masonry	" "	2	
19	Culps ^e masonry wrought and put up	" "	35	
	Lining with planks and nails over the beams between the seats	" "	3	
	1 Pair latten window shutter with frames, locks, hinges and bolts 9" complete	" "	23	
	1 Common teakwood Stairs Case with rail head and side planks 9" inclusive of steps frame and also wood of 9" complete	" "	120	
	White paint 3 coats to the beams and seats 9"	" "	3	
	Green paint 3 coats with in Empire redigres to the windows	" "	3	
	Carried over		423	2963

Quantities	Description of work	Rate	amount	amount of each part
		Pt 1st 2d Paper Paper		
	Brought forward		123	2963
	Difference of price in 35 Culps ^e of teakwood between 122 2/3 Culps ^e per 3 1/2 Pt. Charged in the Rate and the rates of the market	" "	16	
	Sundry Charges and Scaffolding	" "	10	
	N ^o 13			1119
	Removing the terrace of the old Stair Case room in Cluding teakwood Case			
211	Culps ^e Brickwork in Chumam	Spr 29	31	
235 1/2	Plaster in wall	" 29	36	5
196	Suppl ^e Terrace with brick on edge, belly 3" thick 3 Courses flannels and plastering with 3 coats Chumam	Spr 23	115	
550	Plastering with 3 coats Chumam	" 3 86	20	
58	Plastering with 2 coats Chumam to the floor in Squ ^{re} 2	" 8	1	
	Only here for taking down and removing the old terrace and walls, seats 9" and Collecting the same	" "	8	
	Carried over		116	3412

Quantity	Description of work	Rate	Amount	Amount of each part
		M N P	Pupus	Pupus
28 3/4	Put up Teakwood wrought and put up	Brought forward	116	3412
	Teakwood partition with plaster posts side and end frames and a door in Centre and also had 3 coats over the same as per plan for forming closet	1 15	52	
	White paint 3 coats to the frames and doors &c	" "	12	
	Green paint 3 coats to the window	" "	1	
	Difference of price in 110 Culps of teakwood between 22 3/4 Cplts 7 3/2 P charged in the data and the rates of the market	" "	2	
	Sundry charges and scaffolding &c	" "	18	
			6	240
No. 11				
Bath Room				
55 7/8	Culps Brickwork in chimney	2 7	96	
10 5/8	Plaster arch work in	3	2	
23 3/8	Plaster work in	3 3	5	
182 1/2	Suppl. Plastering with bricks set in Jolly 3 in thick 3 coats of plaster and plastering &c	23	112	
	Carried over		145	3682

Description of work	Rate	Amount	Amount of each part
	M N P	Pupus	Pupus
Brought forward		145	3682
15 ft Plastering with 3 coats			
Chimney	3 8 6	18	
Plastering with 2 coats chimney to the floor in	2 8	4	
Teakwood wrought and put up	1 15	29	
Put Bathroom door with frames, hooks, hinges and bolts &c complete	" "	20	
Put window shutter with frames, hooks, hinges and bolts &c complete	" "	18	
White paint 3 coats to the doors &c	" "	3	
Green paint 3 coats with turpentine varnish to the door and a window	" "	5	
Difference of price in 38 Culps of teakwood between 22 3/4 Cplts per 3 1/2 P charged in the data and the rates of the market	" "	17	
Sundry charges and scaffolding &c	" "	6	
			265
Carried over			3947

Quantities	Description of work	Rate	Amount	Amount of each part
2300	Brought forward			399
	No 15			
	Semi terraced roof for			
	Covering over the stair			
	Cave Room			
122	Supp ^t Brick work in flumant	2 9	21	
300	Supp ^t Plastering with 3 coats			
	Chunam	Sgt 3 8 6	11	
11 1/2	Semi terraced roof with batt.			
	wood Beams, nails 1/2			
	Selly 2 courses of batts 9			
	plastering 3 coats Chunam	16	8	
1	Off ^t Teakwood wrought and			
	put up	Off 1 15	1	
1	Door Bottom Door with frame			
	luth, hinges, and bolts			
	3 ^d Complete		9	
	White paint 3 coats to the			
	Joists 8 ^d		1	
	Green paint 3 coats to the door			
	with Dulce Verde green		1	
	Difference of price in off ^t of			
	of teakwood between 1/2 & 3/4			
	Off ^t per 3 1/2 ^d charged			
	in the rate of the			
	Market			
	Sundry charges & scaffolding		1	
	Carried over		63	1010

Quantities	Description of work	Rate	Amount	Amount of each part
				2010
	No 16			
	Bed Room & Verandah			
	with thatched roof			
2303	Supp ^t Brick work in flumant	2 9	399	
101 1/2	Supp ^t Plastering with 3 coats	3	19	
3700	Supp ^t Plastering with 3			
	Coats Chunam	Sgt 3 8 6	138	
1200	Supp ^t Plastering with 2 coats			
	Chunam to the floor			
	in Square	Off 2 8	30	
	Taking down and removing			
	the old building and			
	collecting the old made			
	nails		30	
11 1/2	Off ^t Teakwood wrought and			
	put up	Off 1 15	261	
207 1/2	Supp ^t Lining with teakwood			
	rafter and nails over			
	the rafters of the roof	Sgt 5 4	109	
13	Teakwood posts each with			
	bindings Caps and Iron			
	hooks 8 ^d	Off 2	26	
	Teakwood turned rails with top			
	and bottom frames between			
	the doorway		15	
	Carried over		1024	4010

Quantity	Description of work	Rate	Amount	Amount of each part
	Brought forward		1037	1010
12 Pairs	Pannelled elevation Doors with frames, locks, hinges and bolts &c			
Complete		£ 30 6.	366	
10 Pairs	Pannelled glazed Doors with thick iron hinges and bolts &c	£ 20 11.	81	
Complete		£ 27 12.	278	
6	Brass knobs of brass lining with twisted wire and nails under the poles for lining slung cloth	£ 18	92	
980 1/2	Suppl. Lining with slung cloth gilded iron nails under the Cupola of the roof	£ 11	39	
	Covering over with a layer of thick bamboo mats and 3 in thick thatch and base over &c Complete over the roof of the roof		125	
	Brought over		2032	1010

Quantity	Description of work	Rate	Amount	Amount of each part	Total
	Brought forward		2032	1010	
	Painting the Ceiling Cloth with 3 coats of milk white paint consisting over a ground color previously with a coat of ochre flour		25		
	White paint 3 coats to the glazed doors &c		11		
	Green paint 3 coats with Empire Verdigris to the doors windows		70		
	Difference of price in 178 Cft of timber between 17 2 1/2 Cft per 3 1/2 ft charged in the data and the rates of the market		219		
	Sundry Charges and Scaffolding &c		63		
	Total for Alterations & additions		6130		
	— for thorough repairs of the building		7100		
	Grand Total Rupees				13530

Central Office of the
Fort Saint George
27- Dec- 1859.

N.B. The cost of masonry has been reduced to 23 Rupees per square in this estimate as the parties who have tendered to supply for next year have agreed for thick and thin flat tiles as also terrace bricks for 1600 the 1000 lbs.

W. L. Smith
Chief Engineer S. P. M.

Memorandum

Estimate for making additions
alterations and thorough Re-
pairs to the Building of the
Mahkamah in Chapank
Palace for the residence of the
Principal of the Civil Engineer-
ing College

Ruppes

Ruppes

13,530

Godown Compound wall
& Stables 2 Coach houses and
Kitchen &c

7,090

Total Ruppes 20,620

Amount of General Estimate 20,620

If the 8 Stables 2 Coach houses
and Kitchen be built
with Brick in clay it will
be reduced by

1120

Total Ruppes 19,500

Amount of General Estimate 20,620

If 5 Stables 1 Coach house and
Kitchen be built with Brick
in clay it will be reduced by

1670

Total Ruppes 18,950

Central Office of P.W.

Fort St George

27th December 1859

M Bell Lieut Col.
Chief Engineer

Enclosure

In a letter

From

The Chief Engineer
P.W.

To

The Secretary to
Government P.W.

Dated 27th Dec 1859

Received 28th Dec

Pr 3389/59

No 8742

Abstract Demand of
Making additions, alterations and
thorough repairs to the building of
the Mahkamah in Chapank
Palace for the residence of the
Principal of the Civil Engineering
College at Madras. Amounting
to Ruppes 13,530

Building

(New Work)

Abstract of Estimate No. of 185 / 5
District Madras

Work Constructing the Out Offices attached to the Mahakumrah at the Chepauk Palace for the use of the Principal of the Civil Engineering College

Quantities	Description of Work	Rate			Amount		Amount of cash part
		Rs.	a	p	Rupies	Pasas	Rupies
	<u>No. 1.</u>						
	Godowns Compound wall and wells.						
64.68 Cts.	Brickwork in Chumam	2	3		909		
58 1/2	" Flat arch work in Chumam	3			11		
1307 1/2	Suppl ^g Hip roof with palm. rah Couples flat & panted & Chumam borders — square	15	8		203		
528 3/4	Shed roof with Di-Di	14			74		
5800	Plastering with 2 Coats Chumam — square	2			116		
1440	Flooring with 8 in square bricks in Chumam and a levelling course of 3rd sort wall bricks underneath	7	10	6	110		
30	Suppl ^g Flooring with 8 in square bricks in Chumam to the Doorways — square	6	3		2		
Grand Total					1125		

Enclosed in a letter from the Chief Engineer to the Secy. to Govt. of Madras dated 27th Decr 1854 No 3389/54 110742

Mean of Estimate for materials estimated. See also No. 1 of the list of the materials placed for the restoration of the cupola of the Civil Engineering College.

Quantities.	Description of Work.	Rate.	Amount.	Amount of each part.
C. Yards.		Rs. A. P. Rupees.	Rupees.	Rupees.
51 1/2	Brought Over Ryft Granite stones of one line dressed forming on edge in the front side & fixing them with Chumans over the retaining walls under the posts of the verandah — Ryft	3	10	11 25
	Stone cutters cooly hire for notching 8 holes in the granite stones of 6 ins Diameter by 1/2 in deep for letting the posts of the verandah Oak	2	1	
	Filling with river sand 1 foot in depth under the foundation		21	
	Excavating the foundation filling and levelling the earth to the Basement		15	
1	Sinking a brick well 3 feet Diameter in the Clear by 20 feet in depth with parapet walls &c Complete		50	
16-2-3 Cft	Teakwood wrought and put up — Cft	1 13 "	29	
137 8 1/2 Ryft	Lining with teakwood keepers and nails over the Consoles & rafters of the roof &c	5 11 "	72	
	Carried Over		1623	

Quantities.	Description of work.	Rate.	Amount.	Amount of each part.
	Brought Over		1623	
8	Auchawood Posts Each with teak wood Caps & iron hoops &c — Each	3	24	
6	Pairs Batten doors with frames hooks hinges & bolts &c Complete — Each	13 13 9	83	
1 Pair	D: — D: — D: —	"	16	
1	Pairs Batten window shutters with frames hooks hinges and iron bars &c Complete — Each	11 10 "	116	
1	Iron Cross round bar bolt 1 1/2 feet long with staples and nails —		2	
7	Single bolt iron Padlocks of 3 1/2 ins — Each	8 "	56	
	Paying tar with 2 Coats to the Roof	"	15	
	Red paint 3 Coats —	"	9	
	Difference of Price in 136 Cuffs of teakwood between 4 & 2 5/8 Cft of 3 1/2 Rupees charged in the Data and the rates of the Market —	"	62	
	Sundry Charges & scaffolding &c —		96	
	N ^o 2		1980	
	Stables and Coach House			
5788 Cft	Brickwork in Chumans — Cft	" 2 3	814	
	Carried Over		814	1980

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		811	1980
8	Plain Columns Complete	8 10	69	
1167 1/2	Suppl ^{ts} Roofing with Palmisak Com- ples flat and fantiles and Chumam borders	15 8	181	
1637 1/2	Suppl ^{ts} Roofing with Palmisak rafters nails flat and fantiles and Chumam borders	11 1/4	229	
5800	Suppl ^{ts} Plastering with 2 Coats Chumam	2	116	
1700	" Laying with laterite stone jelly in Clay and gravel of 6 in thick & well beaten down with water including slope	2 9 3	116	
	Constructing 2 Ramps at the door way with laterite stone floors & levelling Course underneath & also with retaining walls all round for Conveying the Coaches		40	
	Constructing 8 urine Cisterns Each 1 1/2 feet in square in masonry and Plastering		8	
	Filling with River sand 6 foot in depth under the foundation		20	
	Excavating the foundation filling & levelling the earth to the Basement		7	
	Brought Over		1528	1980

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		1528	1980
107	Ct ^{ts} Teakwood wrought up	1 10	194	
2300	Suppl ^{ts} Lining with teakwood reapers and nails over the Couples and rafters of the roof	5 4	121	
8	Teakwood planks Each with holes for covering over the urine Cisterns	4 8	4	
2	Pairs thick Batten Doors with hinges hooks laid in stones including granite blocks and lead and also bolts & Con- plete	80	160	
9	Anchawood posts Each with teakwood Caps and iron hoops & Con- Complete	3	27	
2	Small Anchawood posts Each with thick iron fastening hoops 9 in long & fixing them in masonry for fastening the Coach Doors		1	
16	Iron rings of 1 1/2 in Diameter with teakwood blocks for fastening the head ropes of the horses & fixing them in the walls	8	8	
	Brought Over		2046	1980

Quantities	Description of work	Rate	Amount	Amount of each Part
	Brought Over		1907	1280
68 Suplf	Flooring with 8 in square bricks in Chumam to the door and arch ways	6 3	4	
56 Rgft	Granite stones of one size dressed forming on edge in the front side & fixing them with Chumam over the retaining walls under the posts of the Verandah	3	10	
	Stone Cutters Cooly hire for notching 9 holes in the granite stone of 6 ins Diameter by 1/2 an inch deep for letting the posts of the Verandah		1	
	Constructing a Chimney of 20 1/2 by 8 feet in height with side and cross walls including vents for smoke to the ground & covering over the top with brick on edge jelly 2 Course flat tiles & plastering 2 Coats Chumam inclusive of Cornice work &c Complete		75	
	Filling with river sand 1 foot in depth under the foundation		25	
	Carried Over		3022	1280

Quantities	Description of work	Rate	Amount	Amount of each Part
	Brought Over		3022	1280
	Excavating the foundation filling and levelling the earth to the Pavement		11	
9	Auchawood posts each with teakwood Caps and iron hoops &c		27	
22.5	Teakwood wrought & put up for 1 13		11	
1809	Suplf Lining with teak wood, sleepers and nails over the Couplers and rafters of the roof &c	5 1/4	95	
8	Pairs Batten Doors with frames hooks hinges & bolts &c Complete Each	15 13 6	127	
2	Pairs Batten window shutters with frames hooks hinges and iron bars &c Complete Each	11 10	23	
	Teakwood Shelves with 22 Brackets & nails		27	
1	Iron Cross Round bar Bolt 1 1/2 feet long with staples and nails		2	
	Carried Over		3375	1280

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		3375	11280
8	Single belt iron Rodlocks of $3\frac{1}{2}$ ins	5		
	Paying tax with 2 Cents	17		
	Red paint 3 Coats	10		
	Difference of Price in 165 Cts of Oakwood between 1/4 & 2 1/8 Culst. & 3 1/2 Ropes Charged in the Duties and the rates of the Mar- ket	76		
	Sundry Charges and leaf- folding &c	117		
	<u>Net</u>			2600
	Add, Cost of iron articles for Kitchen to be supplied by Dr. Duff's school of Arts at the follow- ing Rates Viz: Oven and Boiler	100		
	Iron Plates	50		
	Doors	20		
	Bars	20		
	Copper / grating	7		
	Brought Over		197	6880

Quantities	Description of work	Rate	Amount	Amount of each part
	Brought Over		197	6880
	Sheet iron	"	10	
	Sundries	"	3	
				210
				7090
	Deduct difference for Building the Stables Coach House & Godown with Bricks in Clay in lieu of bricks in Chunar			1120
	<u>Total Rupees</u>			5970

Central Office of P.W.
Fort Saint George
27th December 1859

W. L. Lieut-Colonel
Chief Engineer D.P.W.

Enclosure

In a letter

From
The Chief Engineer
D P W

To
The Secretary to Govt.
D P W

Dated 27th Dec 1859
Received 18th Dec
PW 3389/59 No 8742-

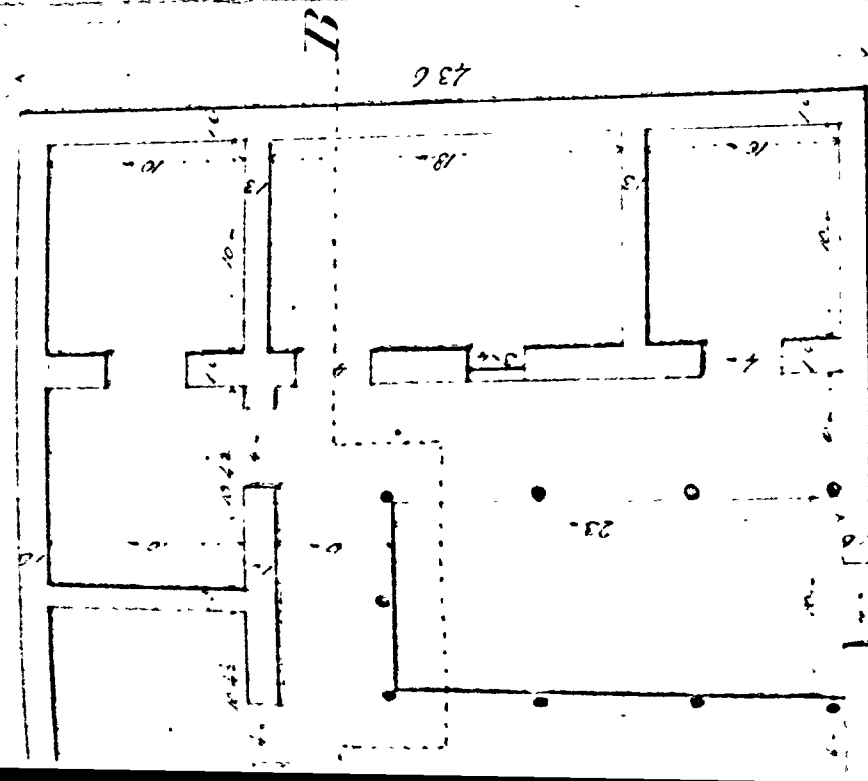
Abstract Estimate for Construct-
ing the Out-Offices attached to the
Mahisamahi in the Chhapra Pa-
lance for the use of the Principal of
the Civil Engineering College Madras
Amounting to Rs 5970-0-0

A^c 2. see A^c 1

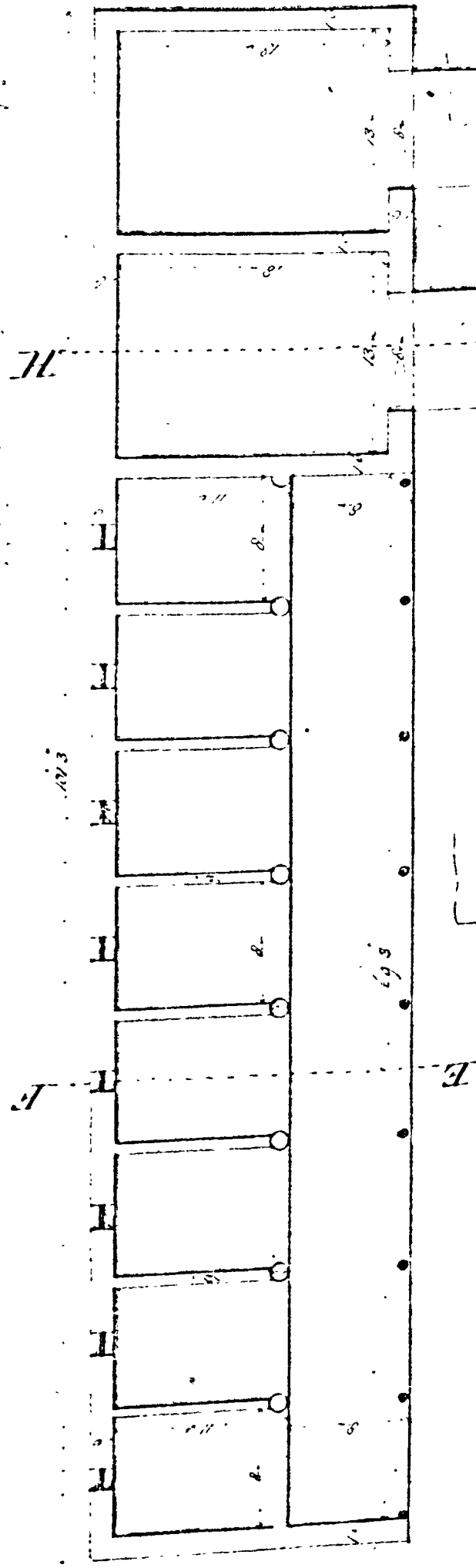
Plan of the Out Office proposed to be built adjoining the Mahanmah at the Polytechnic School
for the use of the Principal of the Civil Engineering College,
Prepared according to the Orders of the Chief Engineer D. H. W. dated 20th Sept^r
1859. N^o 5185.

Estimate Amt. Rs 7990. ---

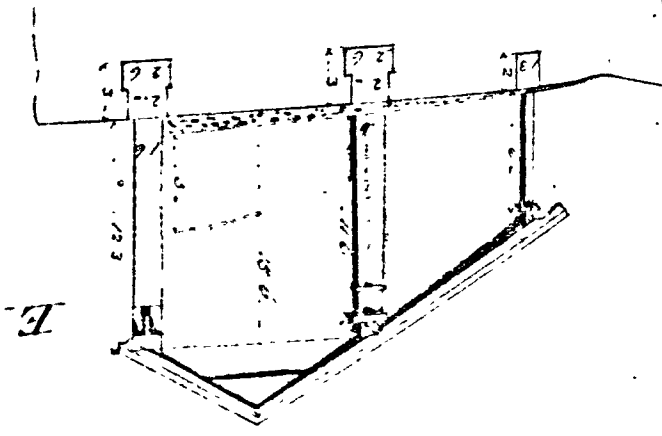
Kitchen.



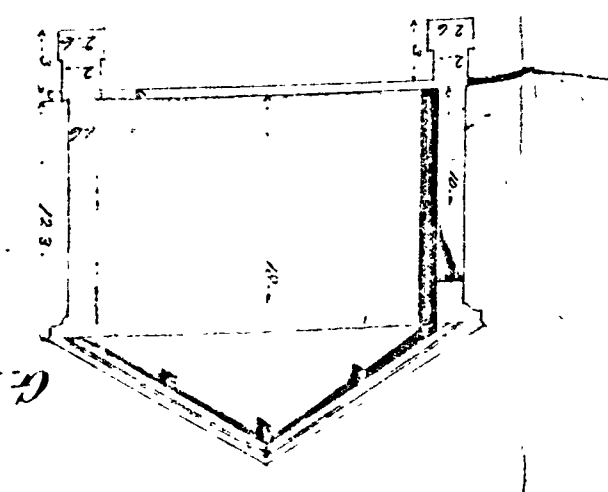
Stables and Coach Houses.



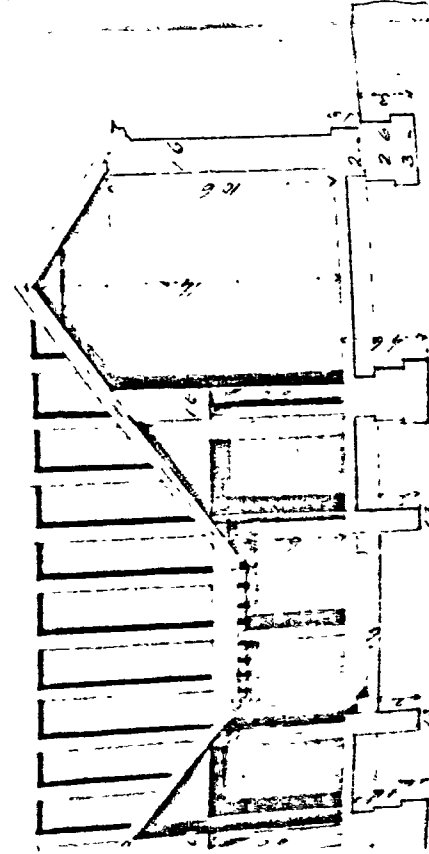
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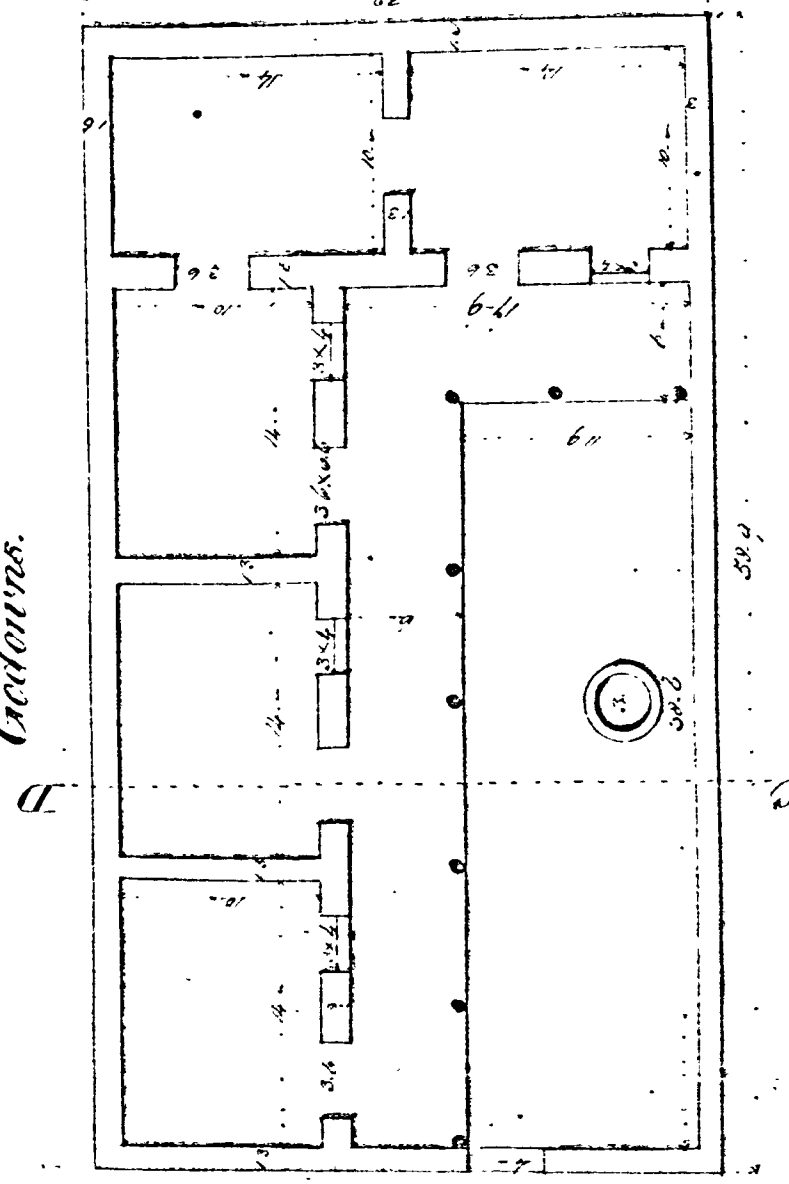
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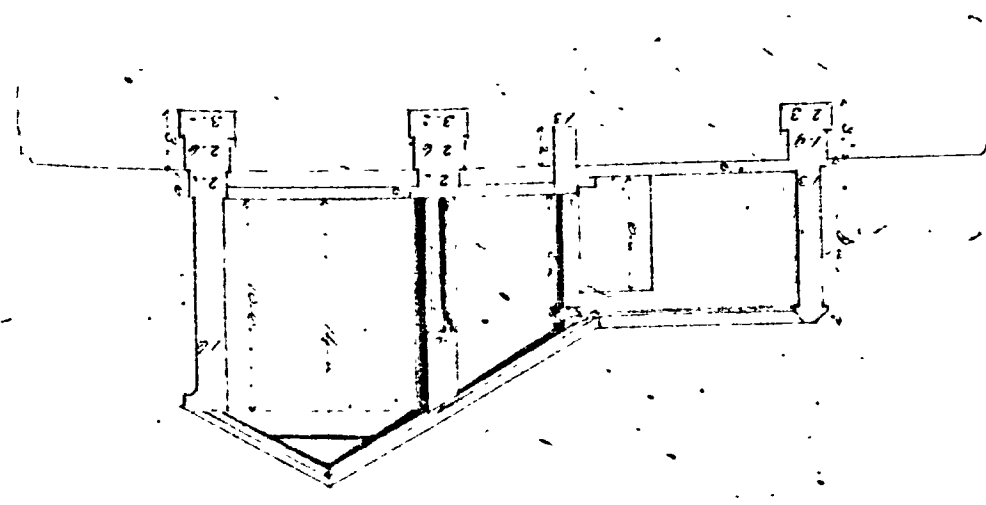
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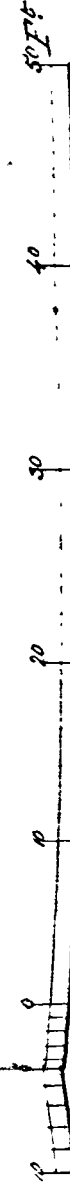
Godowns.



Section thro' C.D.



A. O. Nicholson. Captain,
Civil Architect at the Presidency.

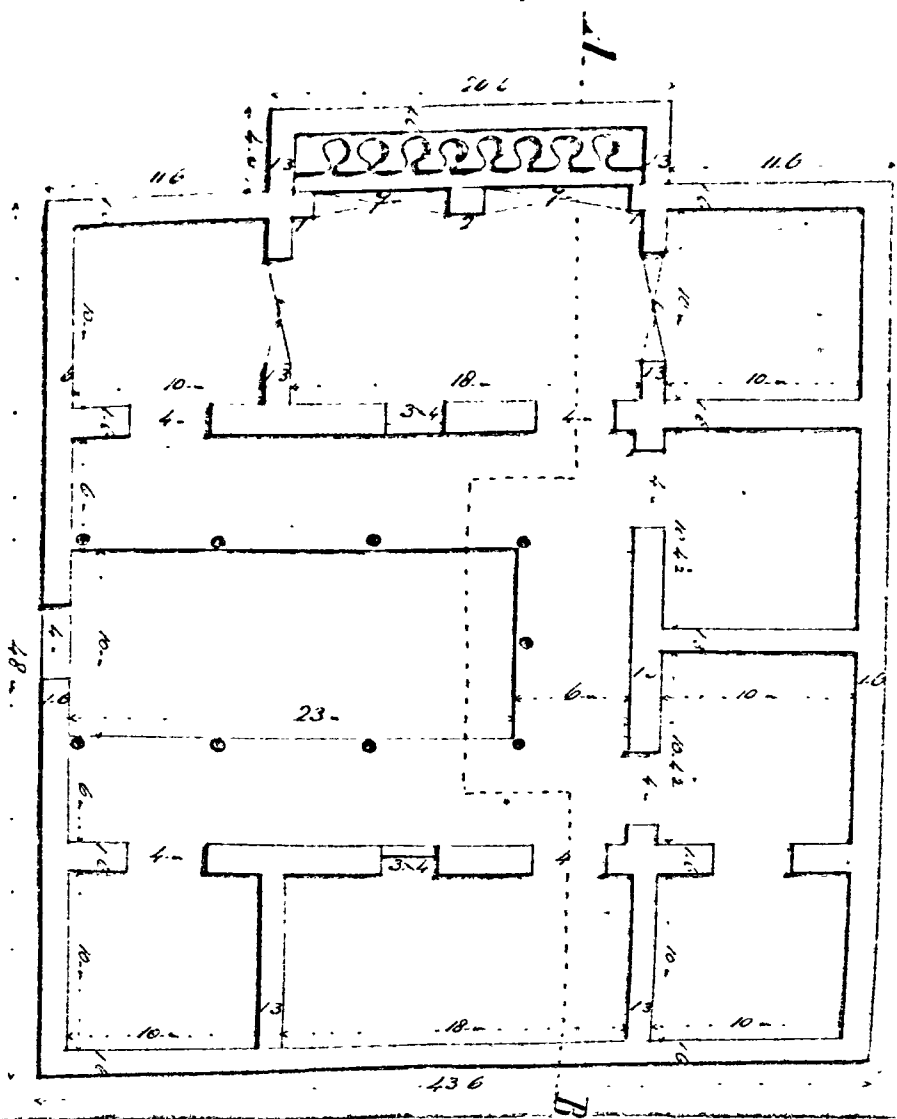


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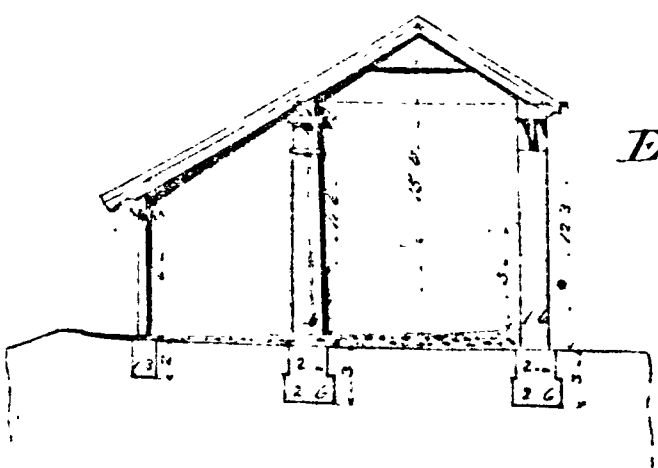
For the use of the Transcript of the Court's proceedings, being
prepared expressly to the Orders of the Chief Commissioner D. H. dated 20th Sept.
1859. N^o 5185.

10

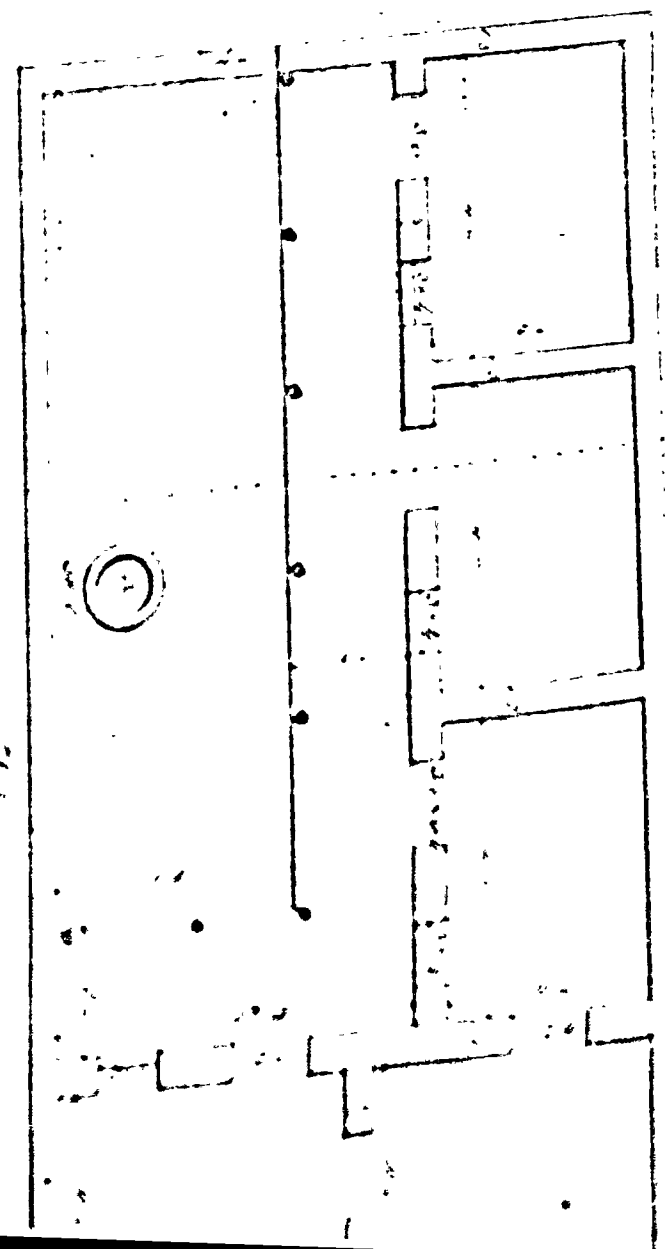
Trüben!



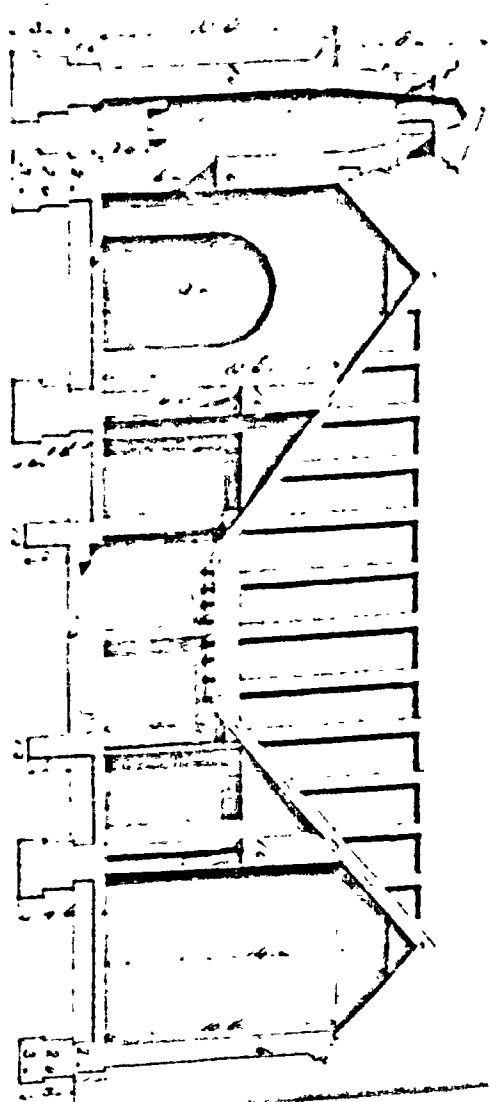
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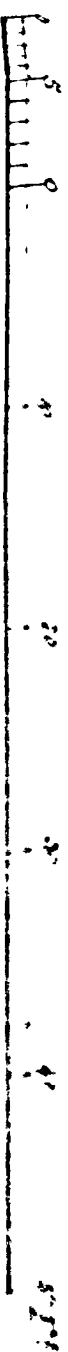
Indurina.



Section 21.11



*and Architect's Office,
at the Presidency,
16th December 1850.*



Control Office of M.
Fort St. George
27th December 1854.

N^o 42.

From
The Chief Engineer
To
The Secretary to Government
M.C.
Sir,

Public

I have the honor to submit

in letter form and
includes a description
N^o 465
the accompanying plan and estimate for
repairs and improvements to the building
called the Mahanama at Septhamam

Inclines -

1 Original letter

2 Plans

2 Abstract Estimates

1 Memo.

designed to adapt it for a residence for
the Principal of the Engineering College

2. The Estimate for the main
Building amounts to Rs 13530 and provides
for necessary repairs and improvements

3. The godowns and stables ap-
pear to me unnecessarily capacious, but
the submission of the plans and estimates
has been so long delayed by repeated dis-
agreements between the Civil Architect and
the Principal that to avoid further loss
of time by reference I think it best
to lay the papers as they are before the
Government with the intention under

it

the approval of matters, such resolutions in the accommodation as may appear advisable.

4. As reported in my letter of the 10th November 1859 No 392. the repairs were commenced some time ago, and I have now in compliance with the personal direction of the Honorable the Governor instructed the Civil Architect to prosecute the works vigorously to completion.

Para 5

5. The rates of the Estimate are those which the Civil Architect has found necessary in consequence of the increased prices of materials and labor and which have been approved in this Office.

6. The amount of the Estimate for which sanction is now requested is Rupees 19,500 Nineteen thousand five hundred.

Civil Office of Mr. I have the honor to be
27th Decr 1859

Sir,
Your Most Obedt Servant

J. Bell Secy to Govt
Chief Engineer

Oct. 10th Dec. 1/59 Dec. 15-19

Placed 1852. In the
 No. of 1852 to 1853
 No. 3389.

down the first highway
to the city of Rome

From the West Congo 2/17
January 6th 1895
original

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Ms. A. 9. 2. 10.

21096. 13th January/60.

Wm. au order

295

Ms. Estimate end.

with this letter,
enclosed

to Post: (19500)

Mr. Allen
Thousand fire

Mr. Green has been
hunted, is sometimes
early in the morning for the

Wm Jan 18 60/81

h/k



Howard W. Sears
 130 South 1st St
 St. Louis Mo
 10 Copies to the Chief of Dept.

26 January 1811