

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 929	Press
19-20	~~Mis.~~
Dated 24	1870.

Not to be folded or roughly handled

10

*Proceedings of the Madras Government, Public Works Department,
2nd April 1870.*

No. 19. Read the following Note by the Acting Chief Engineer for Irrigation, dated Madras, 1st March 1870, No. 47 :—

Read the following letter from Lieutenant-Colonel F. J. MOBERLY, R. E., Superintending Engineer, 2nd Division, to the Chief Engineer for Irrigation, dated Bazoarah, 12th February 1870, No. 165.

Two Plans.

Sketches.

One Detailed and Abstract Estimate for three rest-houses, amounting to Rupees 3,480, and Specification Report.

I HAVE the honour to forward a revised plan and estimate for the rest-houses, altered agreeably to the instructions contained in your Memorandum No. 208, dated 17th June 1869.

2. The side-rooms on one side of the building have been dispensed with. The foundation is allowed to be 1' 9" deep below ground-level, which the Range Officer considers sufficient. A roof of teakwood rafters and pan-tiles is substituted for thatched one. Provision has been made for enclosure wall and for a gate: with all these additions the estimated amount has been increased from Rupees 950 to 1,160 rupees. Rates cannot be reduced.

3. The rest-house at Cowntaram will be built on land already in the possession of the department. The site required at Alapadu was made over to this department in Board's Proceedings, No. 8,727, 26th November 1869, and it was arranged by the Collector that the rest-house at Kaldindy might be built on a selected piece of land, provided the rights of the landholder in it and the trees were not interfered with.

4. I enclose the plans of the sites at Alapadu and Kaldindy, (to be returned.)

No. 47.

NOTE by the Acting Chief Engineer for Irrigation.

IN Government Order of the 18th February 1869, No. 538, estimates for building three rest-houses at Kaldindy, Alapadu, and Cowntaram, at an outlay of Rupees 520 each, were approved, and the cost of these buildings was to be met from savings on the estimates for the Lower and Upper Poolairoo Channels. In the May following the Superintending Engineer submitted revised estimates, Rupees 950 each, for these houses with reference to the Order of Government, No. 596, of the 24th February preceding, in which it was directed that all public buildings of a permanent description should be built with chunam. As the design provided for a thatched roof, the Superintending Engineer was instructed to estimate for a covering not so liable to be destroyed, and it was pointed out that a somewhat smaller size would probably suffice, and that a small compound should be provided.

2. Colonel Moberly now forwards an estimate for a rest-house on a revised design, and the accommodation to be provided has been limited to one principal and two verandah rooms, which are as few as would be likely to be of any use. The estimated cost of each is Rupees 1,160.

3. It will be seen that a depth of only 1' 9" is allowed for foundations. I do not think that this will be enough; but, as attention was called to this point, and as the sites have been selected and, it may be supposed, properly examined, the local

it was

*Proceedings of the Madras Government, Public Works Department.
2nd April 1870.*

officer must take care that the houses are properly built, as, in the event of any failure or increased expense, the responsibility should rest with him, and no further sanction should be given.

4. Permanent buildings the property of Government should not, I think, be built on private land, and, therefore, either the site indicated for that at Kaldindy should be regularly acquired or another site should be obtained.

5. With these remarks I beg to submit the estimates for sanction; but, as I have not found in the previous papers connected with this subject any definite information as to the amount of money saved on the Poolairoo Channels, the sanction should be contingent on funds being available after providing sufficiently for all the sanctioned channel works.

FORT ST. GEORGE,
1st March 1870.

(Signed) J. MULLINS, Major, R. E.,
Acting Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 20.

ORDER THEREON, 2nd April 1870, No. 929.

CIVIL WORKS, No. 2.

SUBJECT to the condition indicated in paragraph 5 of the Acting Chief Engineer's note, the Government sanction the revised estimates of Rupees 3,480 for the construction of rest-houses at Kaldindy, Alapadu, and Cowntaram, in the Kistna District.

2. Lieutenant-Colonel Moberly's particular attention will be drawn to the remarks and suggestions in paragraphs 3 and 4.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 2nd Division.
" Controller of Public Works Accounts.
" Chief Engineer for Irrigation.

Exd A. S. Rodgers.

no 165

Supy Engrs Office 2d Div

Dayanah

12th February 1870

From Lieut Colonel T. J. Moberly R.E.
Superintending Engineer 2nd Div
The Chief Engineer
for Irrigation

Sir.

I have the honor to forward a revised

Enclosures

2 Plans

2 Sketches

1 Revised & altered

estimate for 3

rest houses

amount Rs 3480

specific report

plan and estimate for the Rest houses, altered

agreeably to the instructions contained in

your Memorandum No 2082/17. June 1869.

2 The side rooms on one side of the building

have been dispensed with. The foundation is

allowed to be 1'-9" deep below ground level, which

the Range Officer considers sufficient. A roof

of teak wood rafters and pantiels is substituted

for thatched one - Provision has been made for

enclosure wall and for a gate - with all these

additions the estimated amount has been increased

from Rs 950 to 1160 Rs. - rates cannot be reduced.

3 The Rest house at Cowntaram will be

built on land already in the possession of the

department - the site required at Alapadu

was made over to this Department in Board's

Proceedings No 8727. 26th November 1869. and it was

it was arranged by the Collector that the best
house at Kuldindy might be built on a selected
piece of land provided the rights of the land
holder in it and the trees were not interfered with.
4 I enclose the plans of the sites at Alahand
and Kuldindy (to be returned).

I have the honor to be
Sir,

Yours most Obedt Servant
H. Roberts. *22 Feb 1861*
Superintending Engineer D.D.

order of Government No.
596 of the 24th February preceding, in which it was
directed that all public buildings of a permanent
description should be built with Churnam. As
the design provided for a thatched roof the Super-
intending Engineer was instructed to estimate for
a covering not liable to be destroyed, & it was
pointed out that a somewhat smaller size would
probably suffice & that a small compound should
be provided.

Colonel Roberts has forwarded an estimate

N^o 47.
 Note by the Acting Chief Engineer for Irrigation
 In Government Order of the 18th February 1869 N^o
 538 estimates for building 3 rest houses at Haldin,
 Alapadu and Pankaram at an outlay of Rupees
 520 each were approved, and the cost of these build-
 ings was to be met from savings on the estimates
 for the Lower & Upper Goolan channels. In the
 May following the Superintending Engineer sub-
 mitted revised estimates, Rupees 950 each, for these
 houses with reference to the order of Government N^o
 596 of the 24th February preceding, in which it was
 directed that all public buildings of a permanent
 description should be built with Churnam. As
 the design provided for a thatched roof the Super-
 intending Engineer was instructed to estimate for
 a covering not liable to be destroyed, & it was
 pointed out that a somewhat smaller size would
 probably suffice & that a small compound should
 be provided.

Colonel Moberly now forwards annexed
 estimate

25 8/11/5
 The Chief Engineer
 for Irrigation
 23 Division
 27
 2/12 1869
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 17 June 1869

Kalyan Gudevada

Роман

4737/1869-20

Estimate for Constructing Post-houses at Cooveram, Kildandi
and Akapandoo in the 7th or Masulipatam Range Madras
District.

Particulars of Works	N ^o	Length	Breadth	Depth	Cubic Contents
Foundation to Outer walls of Main room	1	65-8	2-0	1-9	229-10
Do. to Outer walls of Verandah room	"	48-4	2-0	1-9	169-2
Do. Cross wall of Do.	"	7-2	2-0	1-9	25-1
Do. to front Verandah wall	"	40-8	1-7	1-9	113-8
Do. Rear Do.	"	23-4	1-7	1-9	64-7
Do. Steps	"	9-4	1-0	1-0	9-4
Do. Do.	"	4-0	1-0	1-0	4-0
Reinment to Outer wall of Main room	1	65-8	1-7	1-0	103-10
Do. Outer wall of Verandah room	"	48-9	1-7	1-0	77-2
Do. Cross wall of Do.	"	7-7	1-7	1-0	12-0
Do. to front Verandah	"	41-1	1-2	1-0	47-11
Do. Rear Do.	"	23-9	1-2	1-0	27-8
Walls of Main room	1	65-8	1-2	12-6	957-7
Outer wall of Verandah rooms	"	33-0	1-2	7-6	288-9
Do.	1	8-0	1-2	10-0	93-4
Do.	1	8-0	1-2	9-6	90-6
Cross wall of Do.	1	8-0	1-2	10-0	93-4
					2406-9
				Deduct	177-4
					2229-5
					or
					Cubic yards 82 ⁵ / ₉
Deduct for Doors and windows					
Doors	2	3-6	1-2	7-0	57-2
Do.	4	3-0	1-2	6-6	91-0
Windows	2	2-6	1-2	4-0	23-4
Small window	1	2-0	1-2	2-6	5-10
				T.O.C. Deduct	167-10

district Hivua

Kalyan Gudevada

Роман

4737/1869-20

Estimate for Constructing Post-houses at Cooveram, Kildandi
and Akapandoo in the 7th or Masulipatam Range Madras
District.

Particulars of Works	No.	Length	Breadth	Depth	Cubic Contents
Foundation to outer walls of main room	1	65-8	2-0	1-9	229-10
Do. to outer walls of Verandah room	"	48-4	2-0	1-9	169-2
Do. cross wall of Do.	"	7-2	2-0	1-9	25-1
Do. to front Verandah wall	"	40-8	1-7	1-9	113-8
Do. Rear Do.	"	23-4	1-7	1-9	64-7
Do. Steps	"	9-4	1-0	1-0	9-4
Do. Do.	"	4-0	1-0	1-0	4-0
Reinment to outer wall of main room	1	65-8	1-7	1-0	103-10
Do. outer wall of Verandah room	"	48-9	1-7	1-0	77-2
Do. cross wall of Do.	"	7-7	1-7	1-0	12-0
Do. to front Verandah	"	41-1	1-2	1-0	47-11
Do. Rear Do.	"	23-9	1-2	1-0	27-8
Walls of main room	1	65-8	1-2	12-6	957-7
Outer wall of Verandah rooms	"	33-0	1-2	7-6	288-9
Do.	1	8-0	1-2	10-0	93-4
Do.	1	8-0	1-2	9-6	90-6
Cross wall of Do.	1	8-0	1-2	10-0	93-4
					2406-9
			Deduct		177-4
					2229-5
					or
					Cubic yards 82 ⁵ / ₉
Deduct for Doors and windows					
Doors	2	3-6	1-2	7-0	57-2
Do.	4	3-0	1-2	6-6	91-0
Windows	2	2-6	1-2	4-0	23-4
Small window	1	2-0	1-2	2-6	5-10
			T.O.D. Deduct		167-0

Flor to the Table with 8 th by 12 th inch			
Main Room	16-0	14-6	118
Verandah rooms	10-9	8-0	172
Front Verandah	27-6	8-2	224-7
Rear	17-2	8-2	142-2
			768-9

Plastering 10 1/2 ft. 2 Coats of Chamois		Qty	7 1/2
Outside of the Main Room	52-4	12-0	628
of the Verandah wall	35-4	7-0	241
	8-2	9-6	71
Inner Side of Main Room	9-2	9-6	87
Verandah Rooms	61-0	13-0	77
	10-9	8-0	171
	8-0	10-0	24
	10-9	12-0	129
	3-4	12-0	4
	7-3	10-0	7

[illegible]

Painted Doors front and Rear to main room 2				
Painted Doors 2 for <u>Main Room and</u>	4			
2 for Verandah Room				
Painted windows for <u>Main Room</u>	2			
Painted window for <u>Verandah Room</u>	1			
Wooden gate with Pillars	1			
Fencing with earth and Brick				
Pears				
Superintendence and sundries				

Executive Engineer's Office
7th Range, Philadelphia
20th January 1870

Mr. M. S. Repine.
Executive Engineer in charge,
7th or Madulipatam Range.
R.D.

District Ristua Revised Talay Gudevadab
Abstract Estimate of 739184-72.
Post houses to be constructed at Koutaram,
Halishidy, and Halipancher in the 7th on Masulipatam Range M.D.

Quantity	Description of work	Per	Rate	Amount
82 $\frac{5}{9}$	Cubic yards of brick in Chumam	hy	5 6	443 11 9
7 $\frac{68}{100}$	Squares of flooring with 8" hye brick in Chumam	hye	6 "	46 1 3
24 $\frac{88}{100}$	Squares of Plastering with 2 Coats of 2" of whitewashing with 2" Chumam	2"	3 "	74 10 2
24 $\frac{88}{100}$	2" of whitewashing with 2" Chumam	2"	4 "	6 3 6
47 $\frac{3}{4}$	Cubic feet of Teak wood wrought and put up	ft	2 8	119 6
11 $\frac{93}{100}$	Squares of Roofing with Teak rafters, Bamboo Reapers, nails, Pan Tiles, Chumam Borders	hye	16 8	196 13 6
	Complete	Carried forward		286 4 2

2	Functioned Doors front and Rear L. main room	Brought from 25	25	50
4	Batten Doors; 2 for main room, and the others for Verandah rooms	2	18	72
2	Functioned windows for main room	2	10	20
1	Batten window for Verandah room	2	8	16
1	Leak wooden gate with Pillars as per detailed & abstract estimate and plan attached			38 10
200	Running yards of fencing with earth and prickly pear			16 18 12
	Excavating foundations			5
	Superintendence & sundries			60 15
	Total for each house			1160
	Grand Total for 2 Houses			2320

Executive Engineer's Office
7th Range Masulipatam
20th January 1870

W. M. McAlpine
Executive Engineer in charge
7th Range Masulipatam Range

Computed by P. V. Doughty
man of the 7th Range

Supr Engr's Office
2nd Division
Berasnabad
12th February 1870

Let by P. V.

District Hista
Taluk Gudwadah
Work Constructing a wooden gate with brick Pillars to the Compound of Rest house at Kalidindi in the Kaloon Division.
The attached Detailed Estimate No. 73 of 1869-70

Particulars of work	No.	Length	Breadth	Depth	Cubical Contents
Foundation to Pillars	2	2-0	2-0	1-6	12-0
Pillars	2	1-6	1-6	6-6	29-3
					41-3
				Cy. 1 1/2	
Cutstone Caps	2				
Plastering to Pillars	2	6-0		6-6	78
					Two Coats of Plastering Squares 7 1/2
					with chunam
Wooden gate					
Verticals of the frame	2	0-4	0-2 1/2	5-6	0-9-2
Do. Do.	2	0-4	0-2 1/2	4-3	0-7-1
Crosses of Do.	4	0-4	0-2 1/2	4-8	1-3-6
Do. of Do.	2	0-4	0-2 1/2	4-10	0-8-0
Square bars	12	0-1 1/4	0-1 1/4	3-3	0-5-0
					3-8-9
					Cubi feet - 3-9-0

Iron Hinges and straps &c
Complete
Pad lock and bolt &c
Superintendence and sundries

Executive Engineer's Office
7th Range Masulipatam
20th January 1870

Supr Engr's Office 2nd Div
Berasnabad 12th February 1870

W. M. McAlpine
Executive Engineer in charge
7th Range Masulipatam Range

Supr Engr's Office 2nd Div
Berasnabad 12th February 1870

*District Pista
Taluk Gudavada*

To be attached to Abstract Estimate No 73 of 1869-70
Work. Constructing a wooden gate with brick pillars
to the Compound of Post house at Halidindy in
Hyd Caloor Division

<i>Quantity</i>	<i>Description of work</i>	<i>Per</i>	<i>Rate</i>			<i>Amount</i>		
<i>1 1/2</i>	<i>Cubic yards of brick in chumam</i>	<i>Cy</i>	<i>5</i>	<i>6</i>	<i>.</i>	<i>18</i>	<i>1</i>	<i>.</i>
<i>2</i>	<i>Cut stone Caps</i>	<i>each</i>	<i>2</i>	<i>8</i>	<i>.</i>	<i>5</i>	<i>.</i>	<i>.</i>
<i>7 1/2</i>	<i>Squares of Plastering with</i> <i>two Coats of Chumam</i>	<i>Sq</i>	<i>3</i>	<i>.</i>	<i>.</i>	<i>2</i>	<i>5</i>	<i>5</i>
<i>3-9</i>	<i>Cft. of wood for gate</i>	<i>Cft</i>	<i>3</i>	<i>.</i>	<i>.</i>	<i>11</i>	<i>4</i>	<i>.</i>
	<i>Iron Hinges and straps Complete</i>	<i>"</i>	<i>.</i>	<i>.</i>	<i>.</i>	<i>8</i>	<i>.</i>	<i>"</i>
	<i>Padlock & Iron bolts</i>	<i>"</i>	<i>.</i>	<i>.</i>	<i>.</i>	<i>4</i>	<i>.</i>	<i>"</i>
						<i>38</i>	<i>10</i>	<i>5</i>

Executive Engineer -
Office 7th Ranghialipatan
20th January 1870
Executive Engineer Incharge
of the Range R.D.

Supr Engrs Office
2nd Division
B. Saravada
12 February 1870

J. Leobachy.
Supr Engrs 2 Division

20th January 1870
Engrs Office
2nd Division
12 February 1870
Engrs Office
2nd Division

Specification of Rest house

- 1 The foundation of the walls to be 2-3 thick and 1-9 deep.
- 2 Basement of whole building to be 1-7 thick and 1-0 high.
- 3 Main walls to be 1-3 in breadth and 12 feet in high at outside.
- 4 The building will contain the following rooms.
 - 1 Living Room 16-0 x 14-0
 - 1 Servants Pentry 10-9 x 8-0
 - 1 Bath Room 10-9 x 8-0
 - 1 Front Verandah 27-6 x 8-2
 - 1 Rear do 17-2 x 8-2
- 5 Gates and Ventilated Doors & windows in Teakwood to be fixed.
- 6 The whole building to be built with cement mortar in Chumam, as per Memo No 42 Dated 6th April 1890 of the Superintending Engr 2nd Division.
- 7 Walls to be Plastered in 2 Coats of Chumam and white washed in 2 Coats of Chumam.
- 8 The Roof of the building will consist of that of the Bamboo Reapers, nails and covered with that of the Chumam house complete.
- 9 Best timbers and Verandah posts to be made of Teak wood.
- 10 The Compound of the Rest house to be enclosed by a fence formed of earth and Brickly Bars in which there will be a gate supported by Pillars.

Prepared by Engr. J. J. ...
Checked by Engr. J. J. ...
20 January 1890
Engr. J. J. ...
20 January 1890
Engr. J. J. ...
20 January 1890

No 928

Proceedings of the Madras Government.
N. 1. to the 2^d April/70

Under date the 2^d April/70

Read the following

From The Chief Engineer
for Migration

H.E. No 47 of 1st March 1877

Subject to the con-
dition indicated in
para 5 of the Acting
Chief Engineer's note,
the Govt. sanction the
revised estimates of Rs.
3480 for the construction
of Rest Houses at
Kaldinohy, Alapadi,
and Conlaram in the
Nizama District -

Particular attention will
be drawn to the remarks

[illegible]

[Faint, illegible handwritten text]

A handwritten signature in black ink, appearing to be "M. J. ...". The signature is written in a cursive style with some loops and flourishes. It is located at the bottom right of the page, below the typed name "M. J. ...".

Handwritten signature: *Handwritten signature*

where assigned police

...the ...

217. *Alnus incana*

and ordered with 10046.

(Faint handwritten notes)

... ..

3. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1) converge to the solutions of the system (2) as $\epsilon \rightarrow 0$.

Journal of Management Studies, 19(1), 67-80.

[illegible][illegible]

1. The first group of people who are likely to be affected by the proposed changes are those who are currently employed in the public sector. This group includes a wide range of individuals, from those who are employed in the public sector to those who are employed in the private sector. The proposed changes are likely to have a significant impact on the public sector, as it is the largest employer in the economy. The public sector is likely to be affected in a number of ways, including a reduction in the number of employees, a reduction in the number of hours worked, and a reduction in the number of jobs available. The public sector is also likely to be affected by a reduction in the number of jobs available, as the public sector is likely to be the first to be affected by the proposed changes. The public sector is also likely to be affected by a reduction in the number of jobs available, as the public sector is likely to be the first to be affected by the proposed changes.

10 March 1870 A. 25

76

The PC, 2 3" ✓

Concluded

Chief Dep for

Amx

Dep: 4/4/70.



1. *Handwritten signature*
 2. *Handwritten signature*
 3. *Handwritten signature*

[The page contains several lines of handwritten text, which is mostly illegible due to extreme blurring and poor contrast. A large, dark, circular mark or signature is visible at the top center.]

10. In March 1870 @ 25

The Superintendent Eng.
2nd Division

Page 6

60 22 April 1870 No. 379

Nov 19-20

West Kansas Revised estimate
of Rs. 3480 for the construction
of West Kansas at Haldimand,
Clapare and Conlaram
in the Healdia E-4, sand
Credentia -

11/16/70. 17