M.R.O. 1—10,006—28-2-50.

(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. 1809	Press
~~B.P. No.~~	~~Mis.~~
Dated 18-7-	1876 ~~195~~.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 18th July 1876. No. 1,809.

No. 278. Read again Miscellaneous G.O., No. 86-A., dated 12th June 1876.

No. 278-A. Read also the following letter from Lieutenant-Colonel R. B. KENNEDY, District Engineer, Malabar, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Calicut, 4th July 1876, No. 73 :—

Your No. 86-A, dated 12th June 1876.

	Rs.
1 Plan and estimate for constructing four latrines for the officers' quarters at Malliapuram...	600
1 Plan and estimate for constructing two verandahs on the west end of officers' quarters at Malliapuram.	640

I HAVE the honor to forward plans and detailed estimates for works as per margin.

No. 279. ORDER THEREON, 18th July 1876, No. 1,809.

MILITARY WORKS, No. 5.

(a) *Head of Service.*—Imperial.
Fund.—Ordinary.
Class.—Original Works.
Main-head.—Military.
Sub-head.—Military Buildings. Quarters for Officers.
Name of Works.— Four Latrines for officers' quarters at Malliapuram. Two Verandahs on west of do. do.
Amount.—Rupees 600 for Latrines.
,, 640 for Verandahs.
To be carried out by the Public Works Department.

THE plans and estimates, amounting to Rupees 1,240, as specified below, are sanctioned :—

		Rs.
No. 42-W.—	Constructing four latrines for officers' quarters at Malliapuram	600
,, 43-W.—	Constructing two verandahs on the west side of the officers' quarters at Malliapuram	640

2. The District Engineer should provide the necessary funds from the budget allotment for the district under Minor New Works, Military.

3. These sanctions have been registered as Imperial Nos. 42 and 43-W. of 1876-77.

(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

To the District Engineer, Malabar.
,, Examiner of Public Works Accounts.
,, Military Department.

Exd. W. H. French.
Spare Copies

Specification to accompany the Estimate for constructing 2 verandahs on the west ends of the Officers Quarters at Malliapuram in Ernaad Taluq.

Amount of Estimate Rs 640.

Provision — The verandah is to measure 6½ ft wide in the clear and to be built along the west end of the building.

Foundation &c. — Foundation of the pillars to be 3 ft wide and 2½ ft deep and that of the Returning walls 2¼ ft wide and 1½ ft deep; a basement 2¼ ft wide and 1 foot high will be given. The Retaining walls to be 1½ feet wide and 1 foot high.

Superstructure. — The Pillars to be 6½ ft high and 1½ ft thick

Masonry. — The masonry to be of picked laterite laid in mortar composed of 1½ parts of sharp clean River sand to 1 of fresh burnt shell-lime, well mixed together.

Plastering &c. — The building throughout to be plastered with one coat of Chunam prepared in the same proportion as for the mortar applied to the masonry. The joints in the masonry to be scraped to a depth of ½ an inch throughout before the plaster is put in.

Floor — The Verandah to have a floor of laterite in Chunam 3" thick over a levelling course of 3" concrete.

Roof — The Roof will consist of Brussummers Rafters and keepers of Cadol or Karumaruda wood covered with corrugated iron.

Wood — The wood to be sound and free from knots or cracks and to be of scantling as noted on the plan.

Tarring — The rafters and keepers are to be tarred.

Surplus or Rejected materials &c. — All rubbish, surplus or rejected materials to be removed after completion of the work and the site left clean.

Ernaad Range office
Calicut. 22nd June 1876

H. H. Bayley Captain
Ex. Engr. Ernaad Range

Calicut
4th July 1876

Lt. H. Keeves Lieut. Colonel
District Engineer, Malabar

Malabar District

Estimate of the probable cost of constructing a verandah on the west ends of the Officer's Quarters at Mallisseri in Ernaad Taluq.

Taluq	Name of Work	Number	Measurement in feet. Length	Breadth	Depth	Suppl.	Content cubic.	Particulars	Rate	Per	Amount Rupees	Amount Work	Explanation of necessary Remarks.	By whom prepared & recommended.
Ernaad	Erecting a verandah on the west end of the Officer's quarters at Mallisseri.	5	3	3	2 p.	-	92 p.	Foundation of Pillars						
		4	8 5/8	2 1/4	1 p.	-	116 7/10	do Retaining walls between pillars in front						
		2	3 1/4	2 1/4	1 p.	-	21 15/16	do do at ends of verandah.						
		5	2 1/4	2 1/4	1	-	25 5/16	Basement of Pillars						
		4	8 5/8	1 p.	1	-	51 3/4	do Retaining walls between pillars in front						
		2	3 1/4	1 p.	1	-	9 3/4	do do at ends of verandah.						
		5	1 p.	1 p.	6 p.	-	73 3/8	Pillars alone.						
				Total			390 13/16	Cub. ft. of Laterite Sun chunam	@ 14	100 Cub ft	54	115	To defray the Main Cost of the Erection	Capt. Lt. Engrs. Chandler & Assistant
		5	6	-	6 p.	195	-	Pillars all round						
		1	56 p.	-	1	56 p.	-	Basement						
				Total		251 p.	-	Sqr. ft of Plastering with 1 coat of chunam	@ 1 8	100 Sqr ft	3	114		
								Carried over				58-6-9		

Detailed Estimate of verandah on the west end of the Officers' Quarters at Mallia-puram — Continued.

Entry	Name of work	Number	Measurement in feet Length	Breadth	Sq.ft.	Sub.ft.	Cubl.	Particulars	Rate	Per	Amount Article	Amount Work
								Brought forward				586 9 ✓
		1	44 3/4	3 3/8	-	137 17/32	✓	Verandah				
		4	8 3/8	3/4	-	25 2/8	✓	— do — between pillars				
						163 13/32	✓	Total of Flooring				
		1	5	3	-	15	✓	Deduction for steps				
			Total			148 13/32	✓	Sqr. ft. of Flooring with Territe in Chunam over a levelling course of 3" concrete — @	✓	12 - -	100 Sqr.ft	17 12 ✓
		1	44	9	-	396	✓	Verandah				
			Total			396	✓	Sqr. ft. of Roofing with Crool Tylers, Reepers Corrugated iron nails, Tarring &c complete @	✓	50 - -	do	198 - - ✓
		1	43	9"	6"	-	16/8	Breastsummer				
			Total				16/8	Cubl. ft of Crool or Furniture wood wrought and put up — @	✓	1 4 - -	Cubl.ft	20 2 6 ✓
								Excavating foundation and levelling site				2 - - ✓
								Total				296 5 5
								Sundries and Superintendence — @ 7 8 - - Cent				23 10 7 ✓
								Grand Total				320 - - ✓
								Total Estimate for one verandah			Rs	320 - - ✓
								Add for another			Rs	320 - - ✓
								Amount of Estimate			Rupees	640 - - ✓

Ernaad Range Office
Calicut 22nd June 1876.

W. J. Lawley Captain
Ex. Engr. Ernaad Range.

Malabar Dt. Engr Office
Camp Cochin Calicut 6 July 1876.

Mt. B. Reeves Lieut: Colonel
District Engineer, Malabar.

E P W

Detailed Estimate of verandah on the west end of the Officers Quarters at Mallapuram — Continued.

Malabar District

Abstract Estimate of the probable cost of constructing a verandah on the west end of the Officer's Quarters at Malliapuram in Ernaad Taluq.

Number	Contents	Particulars	Rate	Per	Amount Article	Amount Work	Remarks
390 13/16	Cub. ft.	of Laterite in chunam	@ 14	100 cub. ft.	54 11 5		
251 1/2	Sqr. ft.	of Plastering with 1 coat of chunam	@ 1 8	100 sqr. ft.	3 11 4		
148 13/32	do	Flooring with laterite in chunam over a levelling course of 3" concrete	@ 12	do	17 12 2		
396	do	Roofing with Broad rafters, purlins, corrugated iron nails, tarring &c complete	@ 50	do	198		
16 1/8	Cub. ft.	of Croal or Karamaranda wood wrought and put up	@ 1 4	Cub. ft	20 2 6		
		Excavating foundation and levelling site			2		
				Total		296 5 5	
		Sundries and superintendence	@ 7 8	Cent	23 10 7		
		Total of Estimate				Rupees 320	
		Add for another				Rupees 320	
		Amount of Estimate				Rupees 640	

Ernaad Range Office
Calicut 22nd June 1876

Calicut
4th July 1876

W. B. Kennedy Lieutt. Colonel
Distt. Engineer, Malabar.

W. J. Bailey Captain
Ex. Engr. Ernaad Range.

No. W. 4882/1/76.

Estimate for Constructing 2 Verandahs on the Head and Flat for Officers Quarters at Mallapuram.

Dated 22nd June 1876.

Received June 1876.

Conrad Range
Calicut

Amount of Estimate Rs. 600---"

Latrines are to be 9÷×10÷ outside. The foundations of walls to be 2÷÷ broad and 2' deep throughout; a basement of 1 foot high and 1½ ft. broad will be given.

The walls to be 8 ft. high and 9" thick. Screen wall 6 ft high and the same thickness

The masonry to be of picked laterite stones laid in mortar composed of 1½ parts of sharp clean river sand to 1 of freshly burnt shell lime well mixed together.

Joints in the masonry to be scraped to a depth of ½" and the building throughout plastered with one coat of Chunam prepared in the same proportion as for the mortar applied to the masonry.

The latrines to have an asphalte floor of ÷ inch thick laid over a levelling course of Concrete in chunam 5½" thick. Holes 9" square to be made over the floor as shown in the plan. The upper part of the walls to have open stone work as shown in the section

The roof will consist of Ridge beam 5"×8", rafters 4"×3" wall plates 4"×3" and rafters of Sool or Karumaruda wood and to be covered with pan-tiles of best description.

The two Gable ends to be finished with a plain Cornice in the usual way

The wood work to be sound and free from knots or cracks.

After the completion of the work all rubbish to be removed and the site cleared up.

Conrad Range Office
Calicut 22nd June 1876

W. Bailey Captain
Ex. Engr. Conrad Range.

Lieut. Colonel
Dist. Engineer, Malabar.

Amount of Estimate Rs. 600---

Malabar District

Estimate of the probable cost of constructing 4 Latrines for the Officer's Quarters at Mallapuram in Cumarad Taluq.

Taluq Cumarad
Constructing 4 Latrines for the Officer's Quarters at Mallapuram Name of Work

Number	Length	Breadth	Depth	Measurement in feet Sup. ft	Content Cub. ft	Particulars	Rate	Cts	Amount Article	Amount Work	Explanation of increase or decrease.	By whose order commenced.
1	42	2¼	2	"	189	Foundation to walls						
1	42	1½	1	"	63	Basement to do						
1	37	¾	8	"	222	Superstructure of do all round						
1	5	¾	6	"	22½	do of screen wall						
2	8¾	¾	1½	"	19 11/16	Gables of End walls						
				516 3/16	316 3/16							
1	3	¾	6	"	13½	Deduct for door way						
				Total	502 11/16	Cub. ft of Laterite stone in chunam	@	1 4	100 cub ft	7 0 6	No latrines have been built for the Quarters lately erected.	Brigadier General Commanding Malabar and Canara.
1	37	"	8	296	"	Walls out side						
1	31¾	"	8	254	"	do inside						
2	8	"	6	96	"	Faces of screen wall						
1	6	¾	"	4½	"	End of do						
				650½	"							
2	3	"	6	36	"	Deduct for doorway						
			Total	614½	"	Squr. ft of Plastering with 1 coat of chunam	@	1 8	100 sqr ft	9 36		
						Carried over				79 96		

Estimate for constructing 4 latrines for the Officer's Quarters at Malliapuram ——— Continued ———

Taluq Ernaad

Remarks & Latrines for the Officer's Quarters at Malliapuram Ernaad Taluq

Numbers	Measurement in feet: Length	Breadth or depth	Content: Sup. ft.	Cub. ft.	Particulars	Rate	Per	Amount: Article	Amount: Rupees
					Brought forward			97	96 ✓
✓1	8	5½	42	✓	Large Room				
✓1	8	3	24	✓	Small do				
✓1	3	½	1½	✓	Doorway				
		Total	67½	✓	Sqr. ft of flooring with asphalt ½ inch thick over a levelling course of Concrete 5½"	@	18 -- 100 Sqr. ft	12	24 ✓
		Inches							
✓1	10½	5" 8"	.	✓2 11/12	Ridge beam				
✓1	31½	3" 4"	.	✓2 5/8	Wall plates				
		Total		✓5 19/24	or 5½ Cub. ft. of Coral or wood wrought & put up	@	1 4 -- Cub. ft	6	14 -- ✓
					Latrine throughout				
✓1	15	10½	157½	✓	Sqr. ft. of Roofing with Coral Rafters Rupees nails pan-tiles chunam ridges &c complete	@	20 -- 100 Sqr. ft	31	8 -- ✓
	30		157½	✓	26 Rg. ft. of plain cornice to Gables	@	-- 2 -- Rg. ft.	3	4 -- ✓
					& excavating foundation and levelling site			3	-- -- ✓
					Seat for latrine			5	-- --
					Total			141	5 10
					Superintendence and Sundries	@	7 8 ℅ Cent	8	10 2
					Total Cost of Constructing one Latrine			150	-- --
					——— do ——— four Latrines	@	150 -- -- Each	600	-- --
					Amount of Estimate			Rupees 600	-- --

Ernaad Range Office
Calicut 22nd June 1876

Lt. Bailey Captain.
Ex. Engr. Ernaad Range

Calicut
4th July 1876

Lieut. H. Kennedy Lieutt. Colonel
Distrt. Engineer, Malabar.

Application for the sanction of the Brigadier General Commanding Malabar and Canara.

No Latrines have been built for the quarters hitherto occupied by Europeans.

Malabar District

Abstract of the probable cost of Constructing 4 Latrines for the Officer's Quarters at Malliapuram in Ernaad Taluq.

Quantities	Particulars	Rate	Per	Amount: Article	Amount: Rupees	Remarks
502 11/16	Cub. ft of Laterite Stone in chunam	@	14 -- 100 Cub. ft	70	6 --	
614½	Sqr. ft of Plastering with one coat of Chunam	@	1 8 -- 100 Sqr. ft	9	36	
67½	——— Do ——— Flooring with asphalt ½ inch thick over a levelling course of Concrete 5½" thick	@	18 -- ——— do ———	12	24	
5½	Cub. ft. of Coral or Karumaruthu wood wrought and put up	@	1 4 -- Cub. ft	6	14 --	
157½	Sqr. ft of Roofing with Coral Rafters Rupees nails pan-tiles chunam ridges &c complete	@	20 -- 100 Sqr. ft	31	8 --	
26	Rg. ft of Cornice to Gables	@	-- 2 -- Rg. ft	3	4 --	
	Excavating foundation and levelling site			3	-- --	
	Seat for latrine			5	-- --	
	Total			141	5 10	
	Superintendence and Sundries	@	7 8 ℅ Cent	8	10 2	
	Total cost of Constructing one Latrine			150	-- --	
	——— do ——— four Latrines	@	150 -- -- Each	600	-- --	
	Amount of Estimate			Rupees 600	-- --	

Ernaad Range Office
Calicut 22nd June 1876

Lieut. H. Kennedy
Lieutt. Colonel
District Engineer, Malabar.

Calicut
4th July 1876

Lt. Bailey Captain.
Ex. Engineer Ernaad Range.

Br. 4832/2/96.

Estimate for Cantonments
4 Latrines for the Officers'
Quarters at Mallajpuram

Amount of Estimate Rs. ...

Estimate No. 1 of 1876.
Revised & June 1876

Estimated Value Rs.
Malabar District

Malabar Dist. Engr's Office
Calicut 4 July 1876

No 73.

From

The District Engineer,
Malabar

To

The Secretary to Government
S. I.

(a) Heads of Service— Suspended -

Fund. Ordinary -

Class. Original Works -

Main-head. Military -

Sub-head. Military Buildings - Quarters for Officers Recommended ~~for Execution~~
~~Infantry~~ -

Name of Work. 4 Latrines for Officers' Quarters at Mallajpuram
& Verandahs on west of do — do -

Amount. Rs 600 for Latrines
" 640 for Verandahs

To be carried out by the P. W. Department.

Print in the margin of G.O. No 1809 of 18 July 1876 -

District Engineer
Malabar

Dr. 4882

2/

Malabar Distt. Engrs Office
Calicut 4th July 1876

No 73.

From

The District Engineer,
Malabar

To

The Secretary to Government
Public Works Department,
Madras

Sir,

Your No 86 A. dated 12th June 1876.

I have the honour to forward plans and detailed Estimates for works as per margin.

1 Plan & Estimate for constructing four Latrines for the Officers Quarters at Malapuram — 1 — Rs. 600—

1 do. do. for constructing two Verandahs on the west end of the Officers' Quarters at Palghaut Rs. 640.—

I have the honour to be
Sir
Your most obedt. Servt

Wm. S. Keene Lt. Col.
District Engineer
Malabar

116

P.C. 86 A. of 12 June 76 Rig 2

No. 1876 Dept.
No. 4832.

From
The Sec. Govt
Madras

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

Dated 4th July 1876
No. 1809

Transmitting Estimate
for Constructing
Latrines for Officers
Quarters at Trichinopoly
Cantonment.

I am directed by the Lieutenant Governor to request that you will cause the accompanying Estimate for Rs. 1240 for the construction of Latrines for Officers Quarters at Trichinopoly Cantonment to be submitted for the sanction of Government.

2 Rough Plans
& Estimate

No 278

Cir - 12.7.76 Rtd 18.7.76
Depd to Ch - 8-7-76

No 1809 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 18th July 76.

Read ~~the following:~~ again
his Ltrs No. 86 A, dated 12 June 1876.
from
D.C.E. Trichinopoly (A.C. No. 73 Dt 4th July 1876.)

Read also the following

The plans and estimate
amounting to Rs 1240
as specified below are
sanctioned.

No 42 W.	Constructing 4 latrines for officers Quarters at Trichinopoly	600
No 43 W.	Constructing 2 Verandahs on the West side of the officers Quarters at Trichinopoly -	640

2. The District Engineer
should provide the
necessary funds from
the Budget allotment
for

for the District under
Mexico New York
Military -

3 - These sanctions
have been registered
as Imperial Nos 42.
& 43 Ir of 1876-77 -

WK
8.7.76

№ 278-279

Cir: 10-7-76.

x C.H. Despr to Ag 8-7-76

H. Mulahar ✓
Eq - P. W Accts ✓
Mily: Dept ✓ dated 31/7/76

4832 Ch.

Govt. of {1876} Madras.

PUBLIC WORKS.

To

The H. S. Malabar

Dated

Issued

Read

Encl.

G. O., 18th July 1876, No. 1809.

Nos. 278-279

Sanctioned

by the Collector from the allotment under Inner Revenue Establishment

Estimate for Police Quarters at Mallapooram

New Police Quarters at Mallapooram, Malabar

Dr. The Plans & Estimates amounting to Rs 1240 for constructing four latrines and two verandahs for the ——— sanctioned, funds being furnished by ——— vide ——— 5/1876