M.R.O. 1—77,006—8-6-37.

(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. 2887 Press
149,150, Mis.

Dated 7 - 12 - 1872.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 7th December 1872.

No. 149. Read the following letter from the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, dated Coimbatore, 15th November 1872, No. 190:—

I HAVE the honour to forward for sanction and provision of funds the undermentioned estimates, which have been prepared at the request of the Local Military authorities on sanitary grounds, and duly approved of by His Excellency the Commander-in-Chief:—

2 Estimates.
2 Plans.

	Rs.
I.—Trapping the present storm water drains and laying earthen pipes to carry off the refuse water, etc., from the cook-houses of the Wellington Barracks, with two Plans	1,600
II.—Cleaning and coating the underground drains with asphalte and tar	280

2. Funds are not available in this division under Minor New Works, Military.

No. 150. ORDER THEREON, 7th December 1872, No. 2,887.

MILITARY WORKS, No. 4.

SANCTIONED as follows, namely,—

Kitchen drainage	Rs. 460
Placing stink traps in rain water drains	,, 1,040
Tarring underground drains	,, 280

For immediate execution, the works being for purposes of sanitation.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Neilgherries.
,, Controller of Public Works Accounts.
,, Military Department.

Erd. S. T. Austin.

24/61/14/11/7v 24/74/8/10/7v Estimate No. 35 of 1872-73.

Neilgherry Range — Neilgherry District —

Work Cost of laying Earthen Pipes to Carry off the refuse Water from the 3 Cookhouses of the Wellington Barracks, which are proposed to be fitted with Cutts Cooking Ranges — Iron Stink traps are also to be placed over the present Grated Openings —

No	Measurement L.	B.	H.	Contents	Particulars.	Rate	Amount	Total
5	3½	3½	¾	45.11¼	Flooring to Small Cisterns			
10	3	¾	1¼	25. 1½	Side Walls do			
10	1½	¾	1¼	14. ¾	do do do			
1	41½	1	1	41.10½	around Piping across Main road near Nos 2 & 4 Barracks			
				130	Cubic ft Brickwork in Cement	40	52	
				49	Sqr ft Plastering with Cookroc	12	5	14
130				180	From Nos 2 Barrack to Cistern marked 1			
45				155	From Cistern marked 1 to Cistern marked 2			
143				143.	From Cistern marked 2 to other side of road			
130				130	From Cistern No 5 Barracks			
170				170	From Cistern No 3 do			
				778	Rft of 4" Earthen Piping	6	23	12
778	1	2		1556	Channel for laying Pipes			
80	3	3		720	Open Drain at end of Nos 2 3 Barracks & Junction of pipes & under ground Surface drain			
150	3	3		1350	Open Drain between road in front of Nos 2 & 4 Barracks and Magazine Avenue road			
130	3	3		1170	other side of Magazine Avenue road.			
				4796				
				178	Cubic yards Excavation	4	44	8
					Carried forward			37	4	2

					Brought forward			394	2	
5	9½	3	5	2	11 8	Frames to Cisterns				
5	1½	1½	1	2	11 3	Doors to do				
			1	1	1	Add for wastage				
			5	0	0	Cubic ft Teak wood	6	25		
			1			Common Drain		15		
			10			Ths iron for trap Doors	5	3 2		
			12			Cast iron Stink Traps. Car- riage from Madras to Wellington and cost of fitting	85	1820		
									1457	4
						Supervision & Sundries			42	12
						Total Estimate Rupees			1500	

Actg Exec Engr Office
20th September 1872

Jos Morant Capt RE
Executive Engineer

Specification for improving the Drainage of the Barracks.

Estimate Rupees — One thousand & Fifteen hundred.

The present Water from the Cook houses is to be conveyed by means of flanged Earthen ware Pipes 4" diameter jointed with Hydraulic Mortar laid underground to a depth of 2 ft.

5 Cisterns 1½ x 1½ to be of Brick & Hydraulic Mortar & Plastered & Covered over with Teakwood Doors.

12 Cast Iron Stink Traps to be placed over the present Grated Openings as shewn in Plan — Three Traps to be procured from the Arsenal Fort St George.

Prov L Pte

Jos Morant.
Capt RE
Executive Engineer

W Hancock Lt Col RE
Supdg Engr 7 Circle

In a letter from the Supg Engineer & permission to the Secretary to Govt D. P.W. dated 15th November 1872. No 190.

P.W. 5659/72.

Estimate for laying earthen pipes to carry off the surface water &c, from the 3 Cook houses of the Wellington Barracks which are proposed to be filled with Duffs Cooking Ranges. Rupees 1602.

In Dy No 545
D.D. dated 2111

Nº 34.

Estimate No. 64 of 1872/73

Neilgherry Range — Neilgherry District

Cost of Cleaning & Coating the underground Drains Asphalte & Tar — Wellington

Sanctd. Estimate.	Particulars	Rate.	Amount.	Total.
Rft.	900 Drain between Staff Block & Barracks			
Rft.	1875 do do No. 2 & 4 Block Barracks			
Rft.	1210 do do No. 4 & 5 do do			
Rft.	1200 do do No. 5 & 3 do do			
Rft.	1500 do do No. 3 & 1 do do			
Rft.	1875 do do No. 1 Block Barracks & Staff Block			
	8610 Sqr. ft. Cleaning & Coating interior of Drains with Tar mixed with Asphalte & repairing Joints &c	3	25849	25849
	Incidental Charges			21 113
	Total Estimate Rupees			280 — —

The Engineer's Office
Neilgherry Range.
Examined 26th Sept. 1873

Assistant.
Captain R.E.
Executive Engineer
Neilgherry Range
Engr. Engr. & Divn
Please turn over

Specification

The whole of the underground Masonry Cisterns to be Cleaned thoroughly & then prepared all ~~cisterns~~ Cisterns &c. being filled up with brick Jelly and Hydraulic Mortar plastered the whole being Coated with a Composition of Pitch & Tar & Two Sq. Asphalte.

Prot Pole

Jas Morant
Capt RE
Executive Engineer

the Arsenal Fort St George

Bundle Inward 342.

In a letter from the Supg Engineer 7th Division to the Secretary to Govt of P.W. dated 15th November 1872. No 190

P.W. 5859/72.

Estimate for cleaning and coating the underground drains with asphalte and Jar Wellington.

Rupees 280

Engr. 7 Divn

No 190

Supg Engineer's Office
7th Division
Coimbatore 15th Novr 1872.

From,

The Supg Engineer,
7th Division

To,

The Secretary to Govt
of Madras.

Sir,

Enclosures 4
2 Estimates
2 Plans.

I have the honor to forward for sanction and provision of funds, the undermentioned Estimates which have been prepared at the request of the Local Military authorities on sanitary grounds, and duly approved of by His Excellency the Commander in Chief —

I For fencing the present bottom water drains and laying Earthen pipes to carry off the effluence water from the Cook house & from the Wellington Barracks with 2 Gullies — Rs 1600

II Cleaning and Coating the underground drains with asphalte and Jar — 280

2 Funds are not available under Minor this Division Military Head Works

Chief

P.W. 1872. Despatch.

From No. 5659.

The Supg Engineer

7th Div.

To

The Secretary to

Government

D.P.W.

Madras

Dated 15th November 1872

Rec'd 18th 1872

2nd Rec'd

Regd No. 190

Enclosures 4.

Forwards Plans and Estimates for Barrack drainage at Wellington.

No. 2887 - 7th Div. - 72

Letter and Order

Issue Nil

Issue Rs.

Issue Rs.

Signature illegible

Supt Engineer

Copy Rec'd

Copy Sent

Copy Rec'd Rs.

Copy Sent Rs.

1187

Whether the objects in view can be obtained more cheaply than proposed. The Estimate should be worked - 12 Iron stink traps and to cost Rs 1020. - There should be no necessity for this elaborate scheme in Kitchens with Earth ~~Drains~~ Drains to late Boys in the Cookhouse at the Military Asylum Madras. W.V.

Sanctioned as follows

Rs.

Kitchen Drainage Rs. 460

Placing Stink Traps

Rain Water Drains - 1040

Paving Underground

Drains - 280

Der immediate &c. The work for which Estimates being of Rs. 1780 are sanctioned.

Controller & Auditor

Duty Deputy

27.11.72

No. 5659

Govt. of {1872} Madras.

PUBLIC WORKS.

To the District Engr
Neilgherries

Dated

Read. Encl. 4

G. O. 4 Decr 1872. 2887.

Nos. 149 & 150

Drainage of Wellington Barracks. Estimates for the Drainage of Wellington Barracks, Sanctioned with remarks.