

(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.	2573	Press
B.P. No.	348-349	Mis.
Dated	21-10-	1956/73

Not to be folded or roughly handled

No. 348. Read the following Endorsement of the Inspecting Engineer for Civil and Military Buildings, dated Chepauk, 26th September 1873, No. 1,205:—

From Captain J. L. L. MORANT, R.E., District Engineer, Neilgherries, to Colonel E. A. FOORD, R.E., Inspecting Engineer for Civil and Military Buildings, dated Ootacamund, 19th August 1873, No. 143.

1. Rupees 275 for drains and earthen pipes to 1 and 3 wash-houses.
2. Rupees 495 for extending ridge-ventilation of latrines.
3. Rupees 135 for paving urinaries with cut granite stone.

I HAVE the honour to submit three estimates as per margin, approved of and duly countersigned by the Commandant of Wellington, for certain alterations and additions to the bath-rooms, latrines, and urinaries.

These estimates have been prepared at the request of the Commandant at the instance of the medical officer. The foul water from Nos. 1 and 3 wash-houses on the south-east of the barrack-plateau escapes down the side of the same in an open, natural surface-channel. The ground is saturated to some depth with this liquid, and the sides of the channel are over-grown with vegetation. From a sanitary point of view, therefore, these defects require remedying in the proposed manner, which is fully explained in the plan and estimate.

The seated portion of the dry-earth barrack-latrine at Wellington (of which there are four) is 25 feet long. Ridge-ventilation is provided for only 7 feet of this length. This has been found insufficient. It is, therefore, proposed to extend the ridge-ventilation for 9 feet on each side of the present ventilator, or for a total distance of 18 feet on each of the four latrines. The latrines have corrugated iron roofs.

The width (2 feet) to which the urinaries are paved with granite is found insufficient. The urine spills on to the earthen floor beyond. The granite, moreover, has absorbed a good deal of the liquid. It is, therefore, proposed to take up, clean, and relay the granite already down, to pave with granite the whole floor of the urinary, and to coat the whole with a mixture of tar and asphalt.

1. Block-plan.
3. Estimates.
3. Specifications.

THE plans and estimates, amounting to Rupees 905, are forwarded for the sanction of Government.

2. There is a sum of Rupees 310 available under the head Minor New Works, Military, and the balance, Rupees 595, may be granted later in the year when funds are available.

3. The plans and estimates have met with the approval of His Excellency the Commander-in-Chief.

(Signed) E. A. FOORD, Colonel, R.E.,
Inspecting Engineer for Buildings.

Proceedings of the Madras Government, Public Works Department,
21st October 1873.

No. 349.

ORDER THEREON, 21st October 1873, No. 2,573.

MILITARY WORKS, No. 20.

His Excellency the Governor in Council sanctions the estimates submitted, and authorizes the execution of the work in anticipation of the allotment of the balance (Rupees 595) of funds required, which will be provided later in the year.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

Abstract Estimate No 29. of 1873/74
Velgherry District

Work cost of Paving with Cut Granite Stone the
wine rooms at Wellington

Quantities	Particulars of work	Rate	Amount	Total
136	Sq feet Paving with cut Granite	85	115 9 7	
64	do Coating with Tar & Asphalt mixed	10	6 6 5	
				122
	Supt & Sundries		13	
	Total Estimate Rupees		135	

for amount
Capt R.E.
District Engineer
Obtained
Distt Engrs Office
11th August 1873
Thos Pope
By order
11/8/73
a 2nd Engrs
J. Weston D/Engrs
Commr. Wellington
13th August 1873
EA and Colonel R.E.
Inspr Engineer for Building

Abstract Estimate No 28 of 1873/74
 Nilgerry District
 Work extending the Ridge Ventilation of the
 Latrines at Wellington

Quantities	Particulars of Work	Rate	Amount	Total
60	cubic ft. Oakwood wrought & put up	4	240	
120	6" Bolts and nuts	3	22 8	
24	18" do	8	12	
40	5' Sheet Corrugated iron	3 4	130	
72	Running feet Ridging	10	45	449 8
	Supdt & Sundries			45 8
	Total Estimate Rupees			495

By order
 District Engineer
 11th August 1873
 M. P. S.
 24th M.

per Mr. Morris
 Capt R.
 District Engineer
 M. P. S.
 Comm^d Wellington
 13th August 1873.

By order
 M. P. S.
 a. 2nd. 11/12
 11/12

Edmond Colonel R. E.
 Insp^g Engineer for Buildings

Nilgerry District.
 Enclosure in a Letter
 No 1205 dated 26 Sept 73
 Abstract Estimate
 Specification
 No 29 of 1873/74
 P. M. 5310/73
 Cost of having put
 out from the
 the same corner
 at Wellington
 No. 135-2
 11/12/73

Specification

Amount of Estimate Rs Four Hundred & ninety five

General— In the Latrines the present Ridge Ventilation is carried, only $\frac{1}{3}$ of the length of the whole Latrine in the centre, leaving a space of 9 ft. at each side to be ventilated. This is to be extended in the same manner as the part already done.

Woodwork— Purlins & Ridge Poles to have a scantling $3' \times 3\frac{1}{2}"$ cross pieces $4' \times 3\frac{1}{2}"$ uprights $4' \times 4'$ Battens $2' \times 1\frac{1}{2}"$. Purlins & Ridge Poles to be firmly bolted to the walls. Teakwood to be sound & free from cracks.

For Amount
Capt R. E.
District Engineer

Cotacamund
Distt Engrs Office
11th August 1873
W. D. P. O.

Neelgherry District:

Enclosure in a Letter
No 1205 dated 26 Sept 73

Abstract Estimate
& Specification

No. 28 11873/74

P. P. M. 5310/73

Explaining the Ridge
Ventilation of the
Latrines at Neelgherry

Rs. 495/-

By 1873/74

Specification

Amount of Estimate \$101 hundred & thirty five

but Granite — The portion of urinal rooms at present unpaved, to be paved with cut granite stone to prevent soakage of urine in present earth floor

boating with Tar, The cut stone under urinals to be & asphalted. 3 coated with Tar and asphalt.

J. M. Smith
District Engineer

Potacamund
Distt Engrs Office
11th August 1873
Wm L. Rife

Meigsbury District.

Enclosure in a Letter
No 1205 dated 26 Sept 73

\$ 5310/73.
2

Specification Report
to accompany Estimate
for extending the Ridge
Ventilation of the Latrine
at Wellington.
Estimate \$495.
J. M. Smith
11th Aug 73

Neilgherry District

Work _____ cost of making open drain & earthenware pipes
to carry off water from No 1 and 3 Wash Houses _____

Quantity	Particulars of work	Rate	Amount	Total
37	Cubic Yards excavating	4	9 4	✓
301	Cubic feet Brick in Chunam	40	120 6 5	✓
290 1/2	Square feet Plastering with Looker	10	29 10	✓
35 1/4	Square feet Asphalt	75	26 4 4	✓
52	Running feet Earthenware pipes 10" diameter	12	39	✓
70	Running feet Earthenware pipes 4" diameter	4	17 8	✓
2	Cubic feet Teakwood brought & put up	4	8	✓
			249	10 3
	Supdt and Sundries		25	7 7
	Total Estimate Rupees		275	8 5

Potacamund
 Distt. Eng^s Office
 11th August 1873
 Mr. L. P. Ho -
 Esq.

Geo. Horanby
 Capt. R. E.
 District Engineer

J. H. Austin, U.S. Consul
 Command. Wellington

EA and Colonel R.C.
Super Engineer for Building 13.7 August 1873.

Belghien District.

Enclosure in a Letter
No 1205 dated 26 Sept/72

$$\frac{1.9 \times 5310}{5}$$

Specification Report to accompany Estimate for Carving with Cut Granite Stone the Clinical Room at Wellington.

Estimate No. 135.

Neilgherry District:

Enclosure in a Letter
No 1205 dated 26 Sept 1873

Abstract Estimate
& Specification
No 26 of 1873/74.
P.W. 5310/73

Cost of making open
Drain & Earthenware
pipes to carry off
Water from No 1 & 3
Wash houses.

Rs. 275-

Sept 1875/73

Specification

Amount of Estimate Rupees Two hundred & seventy five
Earthenware

Foundations to be excavated $1\frac{1}{2}$ feet
by $1\frac{1}{2}$ feet in rear No 1 Wash house and
3 feet by 3 feet in rear of No 3 Wash house

Brick in Chumam—An open drain to be constructed from
the existing round cistern in rear of
No 3 Barracks to carry off surface
as well as Wash House water, for
a distance of 41 feet. A cistern $1\frac{1}{2}$ feet
by $1\frac{1}{2}$ feet to be built at end, and drain
continued with 10" earthenware pipes
the flooring of open drain to be 3 feet wide
and 9 inches thick. Side walls to be $1\frac{1}{2}$
feet thick at bottom and 1 foot at top, so
as to make the drain 9" wide at the
bottom and 1 foot at top. The cistern
walls to be $1\frac{1}{4}$ feet thick and $1\frac{1}{2}$ feet
high.

Plastering—The open drain & cistern side walls to
be plastered with loor kee.

Asphalting—The floors of open drains & cistern to
be asphalted.

10" Earthenware Pipes—In rear of No 3 Wash house a Brick
in Chumam open drain, to be constructed
to edge of Plateau to catch surface
water for a distance of 41 feet after
which 10" Pipes to be carried down
the slope.

4" Earthenware Pipes—To be carried from round cistern in
rear

rear of No 3. Barracks as there is no surface water
but the water of Wash house to be provided, for 4" Pipes
to be carried to a distance of 70 feet. a cistern to be
built at edge of Plateau to enable slope of Pipes to
be altered.

Woodwork— Small doors with frames $1\frac{1}{2}$ feet by $1\frac{1}{2}$ feet
to be supplied to 2 small cisterns
at edge of Plateau

Olatamund }
Distt Engrs Office }
11th August 1873 }
W. H. B. }
Prob. B. }
Capt R. E.
District Engineer

310
500
6

Neilgherry, District.

Enclosure in a Letter
No 1205 dated 26 Sept/73.

P.W. 5310/73
3

Specifications Report
to accompany Estimate
for making Open Drain
& Earthenware pipes to
carry off water from
Nos 1 and 3 Wash Houses.
Estimate No 275.

No 1143.

D. O. L. a. m. u. d.
Distt Engrs Office
19 August 1873.

From

The District Engineer
Neilgherry.

To

The Inspecting Engineer
for Civil & Military Buildings
Madras.

Sir,

I have the honor to submit three
Estimates, as per margins, approved of,

1. Rs 275 for drains and earth-
-en pipes to Nos 1 & 3 wash houses and duly countersigned
by the Commandant
of Wellington, for
certain alterations
and additions to the Bath rooms, La-
-vines and Urinaries.
2. Rs 495 for extending Ridge
Ventilation of Lavines
3. Rs 135 for having Urinaries
with cut granite stone

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*

These Estimates have been
prepared at the Request of the Command-
ant, at the instance of the Medical
officer. The foul water from Nos 1 & 3
Wash houses on the S.E. of the Barrack
Platform escapes down the side of the same
in an open natural surface channel.

The

The ground is saturated to some depth with this liquid and the sides of the channel are overgrown with vegetation. From a sanitary point of view therefore these defects require remedying in the proposed manner which is fully explained in the Plan and Estimate

The seated portion of the dry earth Barrack Latrines at Wellington (of which there are 4) is 2.5 feet long. Ridge Ventilation is provided for only 7 feet of this length. This has been found insufficient. It is therefore proposed to extend the ridge ventilation for 9 feet on each side of the present Ventilator, or for a total distance of 18 feet on each of the 4 Latrines. The Latrines have corrugated iron roofs.

The width (2 feet) to which the urinals are paved with granite is found insufficient. The urine spills on to the earthen floor beyond. The granite moreover has absorbed a good deal of the liquid. It is therefore

therefore proposed to take up, clean, and relay the granite already down; to pave with granite the whole floor of the urinary and to coat the whole with a mixture of tar and asphalt.

* * I have the honor ^{* * *} Vca. Vca.
Signed / J. D. Inouant Capt. R.E.
District Engineer.

N^o 1215

Enclosures 4

1 Block Plan

3 Estimates

3 Specifications

The Plans and Estimates amounting to Rs. 905, are forwarded for the sanction of Government.

2. There is a sum of Rs. 310 available under the head Minor new works Military; and the balance Rs. 595 may be granted later in the year when funds are available.

3. The Plans and Estimates have met with the approval of His Excellency the Commander-in-Chief.

Officer of the Insp. & Engr.
for Civil & Mil. Buildings,
Chennai 22 September 1873

Ed. Inouant Capt. R.E.
Inspecting Engineer
for Buildings

To. Colonel G. W. Walker, R.E.
Secretary to Government
S. W. Department.

From 105310-

The San Francisco Engineer
for Bonding

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The Secretary to Government
P. M. O. Calcutta

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Bill Price

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W. J. H. H.

W. L. Garrison the Librarian in
the Library of the Boston Public Library

I cannot annex the Portraits
 submitted and authorize the
 execution of the work in an-
 -tegration of the abatement
 of the balance (\$595) of
 funds received which will be
 provided later in the year.

Sign

20

John de Buss

Dr. Hallinan

the Hamilton

C. E. Smith 29/10/13
 Alfred Dobson 1-4 d.c.

Cp 5310
Govt. of 1873 Madras.
PUBLIC WORKS.

To the Inspecting Engg
for Buildings

Dated

Recd.

Encl. /

G. O. 21st Oct. 1873. 2573.

A 13
Nos. 348 & 349

Military works at
Wellington. Estimates
for certain works,
sanctioned; authority
granted for the execution
of the work in anticipa-
tion of the allotment
of the balance of the funds