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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1887	Press	<i>Original</i>
B.P. No.		Mis.	
Dated	15-5-	1875	
		195	

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*Proceedings of the Madras Government, Public Works Department,
15th May 1875.*

No 340. Read the following Proceedings of the Madras Government in the Military Department, dated 25th March 1874, No 999

Read the following papers —

From Lieutenant-Colonel D SCOTT, Officiating Deputy Quarter Master General, to Colonel A C SILVER, Secretary to Government, Military Department, dated Fort St George, 23rd January 1874, No 495

In continuation of this office letter, No 7,531, dated 29th October 1873, I have the honor by order to submit, for the approval of Government, the accompanying estimate of the income and expenditure of the cantonment fund at Wellington for the year 1874-75

2. The receipts of this cantonment are estimated at Rupees 2,324, and the expenditure at Rupees 4,694, but in this latter sum is included an item of Rs 2,370 for the construction of a new latrine, in place of one which was sanctioned in the estimate* of 1873-74, at a cost of Rs 300,

* O G, No 156, of 14th January 1873 on the supposition that the present system of conveying the latrine refuse into the river would be continued. To this system the Sanitary officer strongly objects, and considers that the use of the existing latrines, which are on that system, should be discontinued, and the proposed new latrine on the dry-earth system substituted for all, in which view the Cantonment Committee fully agree. The District Engineer has prepared a plan and estimate for this new latrine costing Rupees 3,750, which is submitted to Government in a separate letter. If this estimate is sanctioned for execution from Imperial Funds, the item of Rupees 2,370 entered in the Cantonment Fund estimate will have to be struck out, and no additional sum will have to be granted by Government for 1874-75, but if it is considered that the latrine should be built by the Cantonment Committee, the additional sum required to meet the expenditure of the year will stand at Rupees 3,750

CANTONMENT OF WELLINGTON

*Abstract of the estimated income and expenditure of the Cantonment Funds for the official year
1874-75*

Funds	Gross collection for 1874 75	Amount to be sanctioned by Government	Total,
	RS.	RS	RS
Receipt for cattle pound	24		
Bandypettah, at 2 Rupees per month	180		
Fines and penalties under Cantonment Rules	733		
Grazing and lopping of trees	65		
Rental of arable land	50		
Sale of manure	216		
Proceeds of bazaar sweepings	1,056		
Government grant for conservancy purposes			
Total	2,324		
Additional sum required to be granted by Government to meet the expenditure of the year ..	...	2,370	
			4,694

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15th May 1875*

Classification of proposed Expenditure					Estimate, 1874-75
Classification.					RS
Conservancy establishment	.	..	.	.	1,962
Original works	.	..	.	..	2,370
Repairs	..	..	...	.	212
Contingencies	...	...	..	.	150
Total					4,694

Detailed list of Estimated Expenditure in the Cantonment of Wellington

Nature of Expenditure					Total amount.
SANCTIONED CONSERVANCY ESTABLISHMENT.					RS
1 Inspector, at 20 Rupees	...	.	..	.	240
1 Writer, at 15 Rupees	..	...	...	.	180
1 Superintendent, at 10 Rupees	..	...	..	..	120
3 Sweepers, at 6 Rupees	.	..	..	...	216
12 Coolies, at Rupees 8-2-0	..	...	..	.	1,170
Peons	.	.	..	..	.
Carts	..	.	...	..	.
Toties	..	.	.	..	.
Pair of bullocks for the night soil	.	.	..	.	.
					1,926
ADDITIONAL CONSERVANCY ESTABLISHMENT					
Carts	..	.	.	..	.
1 Sweeper, at 3 Rupees per month	.	...	..	.	36
Superintendent	.	...	.	..	.
					1,962
ORIGINAL WORKS					
Construction of latrines	.	.	.	.	2,370
Do. of drains	...	.	...	..	.
Miscellaneous public improvement in bazaar and cantonment	...	.	.	..	.
					2,370
REPAIRS					
Minor repairs to bazaar and cantonment roads	...	...	..	.	100
Roads, bridges and drains, &c.	...	..	...	...	112
					212
CONTINGENCIES.					
Purchase and planting of trees, &c.	.	...	..	...	50
Tools and baskets	..	.	.	..	100
Stationery	...	...	..	...	.
					150

WELLINGTON,
2nd September 1873.

(Signed) C J RICHARDS, Lieut-Colonel,
Cantonment Magistrate and
Secy. to Cantonment Committee

*Proceedings of the Madras Government, Public Works Department,
15th May 1875.*

From Lieutenant-Colonel D SCOTT, Officiating Deputy Quarter Master General, to
Colonel A C SILVER, Secretary to Government, Military Department,
dated Fort St George, 23rd January 1874, No 496.

WITH reference to this office letter No. 495, of this date, I have the honor by
order to submit the accompanying plan, specification, and estimate, amounting to
Rupees 3,750, for a new latrine on the dry-earth system at Wellington

2 The construction of the new latrine is recommended on sanitary grounds,
in substitution of the one sanctioned*
* O G, No 156, of 14th January 1873 in 1873-74 by Government, to be built
from Cantonment Funds, at a cost of Rupees 300, and of other existing latrines, the
refuse from which is conveyed into the river. His Excellency the Commander-in-
Chief requests that the sanction of Government may be accorded for its execution,
either from funds to be allotted by the Department of Public Works, or Cantonment
Funds, as may be deemed expedient.

3 The District Engineer, Neilgherries, reports that a latrine very similar to
the one proposed has been constructed at Ootacamund by the Municipality, that
one-half of its cost has already been recovered by the sale of the poudrette which
it manufactures; that this sale is constant, and that the cost of the latrine at Wel-
lington, where the requirements for poudrette are greater than at Ootacamund,
would probably be recovered in three years at the outside

4. A memorandum by the President of the Ootacamund Municipality and a
letter from the Engineer of that district are enclosed for reference.

From Captain J MORANT, R E, District Engineer, Neilgherries, to the Secretary, Cantonment
Committee, Wellington, dated Ootacamund, 9th January 1874, No 12

I HAVE the honor to acknowledge your Nos 68 and 92 of the 4th September and 9th Novem-
ber last, respectively, and beg herewith to for-
ward a plan and estimate* for a latrine for the
Wellington bazaar
* Amounting to Rupees 3,750

2 It is contrary to Public Works orders to furnish a plan until the approximate estimate
receives the approval of Government But as the proposed latrine is one of an entirely novel
kind, and its large cost may be misunderstood, I have waited to prepare a regular plan and
estimate

3 A latrine very similar to the one I now lay before you has been constructed here by the
Municipality One-half of its cost has already been recovered by the sale of the poudrette which
it manufactures This sale is constant The cost of the proposed latrine at Wellington, where
the requirements for poudrette are greater than in Ootacamund, would probably be recovered in
three years at the outside After that the receipts by the sale of the poudrette, minus the cost of
the two toties, would be a clear gain to the Cantonment Funds

4 The latrine provides sittings for ten males and six females, as the former would be more
numerous than the latter Its accommodation can at any time be increased if so required

5. I append a memorandum kindly written by H B Grigg, Esq, c s, Honorary Secretary,
Ootacamund Municipality, on the subject - A careful perusal of this document and an inspection
of the enclosed plan will, I trust, clearly furnish you with all the details of the scheme

6 I beg to apologise for the delay which has occurred in this reply to your request I have
not only had a great deal of other pressing work to do, but I was desirous in a matter of this

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15th May 1875*

novel kind to await a little longer the results of the experiment in Ootacamund. These having been most satisfactory, I confidently lay before you the accompanying plan and estimate

MEMORANDUM by H B GRIGG, Esq, c s, Honorary Secretary, Ootacamund Municipality, on the subject of a latrine which combines the manufacture of poudrette

THIS plan corresponds in its main features with that on which the Municipal Commissioners of Ootacamund have had the large market latrine constructed, and should remedy some of the points in which that latrine has been found defective

It is a modification of the plan by Colonel Roberts, R E, and approved by Government in their order, G O, P W D, No 1,887, of 9th August 1872 It provides also for the manufacture of poudrette, and such modifications as have been made are chiefly directed to this object, and would in most particulars not be required when poudrette is not a desideratum

It is on the dry-earth principle when ash of various descriptions is used as the deodorizer

It is necessary in this climate where the rains continue for so many months in the year that adequate provision should be made for stowing ash at the latrine in covered bins

It is also necessary to have bins or a shed in which to stow the poudrette when made at the latrine to be removed at intervals, say, of fifteen or thirty days This arrangement involves a great economy in carts,

In making poudrette to be of great value as a fertilizer, it is absolutely necessary that none of the urine should be lost, poudrette made of faecal matter only is comparatively of little value Accordingly two things should be secured —

1st — That the urine should be caught

2nd — That water should not be mixed with it,

The latter condition is also essential for economy in use of dry-earth, especially in this climate, where the air is during a considerable portion of the year highly charged with moisture

To secure the urine intact, 1st, as regards the men, a channel runs down in front of the cells containing the buckets into the poudrette vat or well, which is partially filled with ash

As regards the women, the urine is passed into the buckets which thus receive both faecal and urinary matter, whilst with the men the bucket receives only the faecal matter

When the buckets are cleaned each day, on being returned to the cell, two or three handfuls of ash are put into the bottom of the bucket A man and woman toty should be attached to each latrine, and it is their duty to throw ash into the buckets at intervals during the day and thus deodorize their contents It is necessary to detail a toty to this work, as it has been found by experience that not one man in a hundred will himself throw ash on his deposit.

At least once a day the buckets are emptied from inside through the opening into the vat The buckets are then washed and occasionally coated with tar and returned to their cells as above stated When the faecal matter has all been thrown into the vat, it is covered over with a thick coating of ash, and thus the emission of bad odours is prevented Every morning the toties proceed to work up the poudrette, this is done by thoroughly mixing up the matter that has been deposited with mammaries and by the treading of their feet, and, if necessary, adding more ash, in dry weather one pound of ash will deodorize rather more than 2 lbs of excreta

When the matter has been thoroughly deodorized, it is taken out of the vat and placed into a bin or shed so as to keep it from the rain During the dry weather the moisture soon evaporates and it becomes as odourless as ordinary earth

To attain the second end, viz, the prevention of the mixture of water into the urine and thus passing into the poudrette, the frequenters have to be encouraged to wash themselves in the open part of the latrine through which a stream of water passes It is also desirable to have a small tank or cistern in the latrine where persons may fill their lotahs for washing purposes It has been found that the supply of this water induces the people to do their cleansing part of the operations at the stream, and not in the buckets,

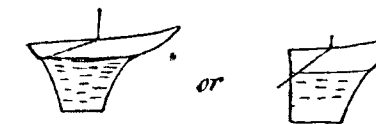
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This stream should be conducted from the latrine in an earthenware or iron pipe to a short distance, so as to prevent the soil near the latrine becoming impregnated with moisture A stream flowing from one-half inch pipe supplies sufficient water The amount of faecal matter that may be thrown off in washing is so small that it has not been found at the market latrine in any way to foul the channel which receives the outflow This stream is also most convenient for the washing out of the latrine, which is done daily It would be a great advantage if the water had a head as thus, the washing out of the latrine might be effected more easily by means of a hose

The cistern should be a raised one for this reason

It has been found desirable here, where natives have acquired the habit of standing when passing urine, to have a urinal inside the entrance, as otherwise they use the walls for this purpose Some difficulty was at first experienced in inducing the frequenters to use the buckets, and not to squat down on the floor, but supervision on the part of toty and the conservancy inspector has done away almost entirely with this nuisance

The buckets should have a rim in this form to prevent deposit falling on the sides



They should be of galvanized iron and coated with tar Wooden buckets retain the smell It would be an improvement if each cell were divided from the next by a screen

With report from the Ag Controller of Mily Accounts, 2nd Feb 1874, D

THE Right Honorable the Governor in Council sanctions the estimate of expenditure for the conservancy of the cantonment of Wellington, during the year 1874-75, to the extent of Rupees 2,306 as particularized below —

Conservancy Establishment, viz,

1 Inspector, at Rupees 20 a month	240
1 Writer, at Rupees 15	180
1 Superintendent, at Rs 10	120
3 Sweepers, at Rupees 6	216
12 Coolies, at Rupees 8*	1,152
	1,908

* The rate fixed in Procs of Govt, 26th March 1873, No. 1,090.

Additional Conservancy Establishment

1 Sweeper, at Rupees 3	36
	1,944
Minor repairs to bazaar and cantonment roads, bridges and drains, &c	212
Contingencies	150

Total 2,306

2 Adverting to the plan and estimate submitted with the second of the letters from the Quarter Master General above recorded, His Excellency in Council observes that the cost of constructing a new latrine on the dry-earth system for

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15th May 1875.*

the native civil population in the cantonment cannot be made a charge against Imperial Funds

3 But as the work is considered to be necessary on sanitary grounds, and the funds of the cantonment are at present unable to bear the outlay, the Right Honorable the Governor in Council is pleased to authorize an advance being made to the Cantonment Committee, of the amount required, *viz*, Rupees 3,750, for carrying out the object, on the understanding that the same be repaid to Government in annual instalments from the money derivable by the sale of manure, which it is stated would cover the cost of erecting the latrine, in about three years

(True Extract)

(Signed.) A C SILVER, Colonel,
Secretary to Government, M D.

No 341

ORDER THEREON, 15th May 1875, No 1,387.

MILITARY WORKS, 9

It being understood that the sum of Rupees 3,750 has been placed at the disposal of the Cantonment Committee by the Military Department, Item No 20 in the Imperial Budget for 1875-76 will be withdrawn and credited to the Reserve

(True Extract)

Major, R E,
Offg Joint Secretary to Government.

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

Lxd. W J Lewis
Spare Copies

M. 1875
No. 2385.
Govt. of 1874 Madras.

MILITARY.

2.

THE QUARTER MASTER GENERAL

Date 1 March, 1874

Recd 12 April 1874

G O, 25th March 1874, No 999

S

MARCH

Nos. 344-347.

Sanctioning the estimate of expenditure for the conservancy of the cantonment of Wellington, during 1874-75, as also an advance of Rupees 3,750 for constructing a new latrine on the dry-earth system, for the native civil population in the cantonment

With Order

By O. No. 1387 of 15th May 1874
At being understood that the sum of Rs. 3,750 has been placed at the disposal of the Cantonment Committee by the Military Department (Memo No. 20 and the Imperial Budget for 1875) and the said sum will be withdrawn and credited to the Reserve. W. S.
Approved 11/07/74
S. C. 12. 31-5-75
C-4-5-75

1385

Govt. of 1875 Madras
PUBLIC WORKS.

to

The. St. Ingr,
Kilgini

Dated

Issued

Recd.

Encl

G O, 15 May No 1387

Nos. 340-347

Conservancy of the cantonment
of Wellington, during 1874-75.

Passing orders on Proceedings
in the Military Department,
sanctioning the estimate of
expenditure for the —, as
also ^{an} advance of Rs: 3,750 for
constructing a new latrine on
the dry-earth system, for the
native civil population.