

(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. 3872

Press
Mis.

265-70

Dated 12 12 1868.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
12th December 1868.*

No. 269. Read the following letter from the Acting Superintending Engineer, 4th Division, to the Secretary to Government, Public Works Department, dated Madras, 30th November 1868, No. 4,237 :—

1. I have the honor to forward for approval, with reference to G. O., No. 1,113, dated 8th April 1868, plan, estimate, and specification as per margin, amounting to Rupees 44,500, for supplying water from the Seven Wells to the
- 1 Plan.
1 Estimate
1 Specification.

new Ordnance Lines on the Esplanade, occupied by the Warrant Officers attached to the Arsenal, and for providing drainage, fencing, and planting with trees the compound of the quarters.

2. The estimates have been considerably reduced in this office, and they make provision for the following works at the cost entered opposite each item :—

	RS.
1. Providing Teak-wood Palisading for each quarter with gates	11,200
2. Forming Roads throughout the Lines	3,550
3. Providing Eaves, Planks, and Zinc Gutters to each quarter	3,100
4. Constructing Reservoir for storage of water	2,100
5. Laying down Main and Service Pipes to each building	8,200
6. Constructing Open and Covered Drains	13,100
7. Constructing a Flushing Cistern for drains	1,550
8. Planting Trees round each quarter	1,700

Total... 44,500

3. Advantage will be taken, from the proximity of the main pipe from the Seven Wells reservoir leading to the Fort, to lay down a branch pipe in the vicinity of Patchcappah's Hall, to supply a reservoir at the north-west extremity of the lines, from which a main pipe will be carried throughout the extent and to the rear of the quarters, terminating in a small flushing reservoir near the General Hospital Road, and from which main pipe, service pipes will be laid to each quarter, and fitted with a stand pipe and cock. The storage reservoir will also be used for flushing purposes.

4. Advantage will be taken, also, of the covered Black Town main drain, which crosses to the sea near the centre of the lines, for the purpose of discharging the bath and cook-rooms' water into it. Open drains from these buildings will discharge into a covered masonry drain, which will slope from its two extremities to the Black Town drain, and it is hoped that by means of the good fall obtainable, and the command of water gained for flushing them occasionally, no inconvenience will be felt from imperfect drainage. Captain Goddard calculated the storage reservoir to contain 22,000 gallons of water, sufficient for a ten days' supply, but his calculation was based on eight gallons per head per diem. I would propose that the reservoir should be filled every second day, so as to afford a fair supply for each family for all purposes.

Proceedings of the Madras Government, Public Works Department.
12th December 1868.

5. The works have already been put in hand, as the palings have been erected around most of the quarters in occupation, and the roads constructed, as well as considerable progress made in planting trees. The outlay, I understand from the Executive Engineer, has been incurred on your personal orders to him, and amounts to the end of October to Rupees 3,923. The cast-iron water pipes have all been ordered from the Government Foundry, and are nearly ready, so I trust Government will be able to allot funds to complete the work this year.

No. 270. ORDER THEREON, 12th December 1868, No. 3,872.

MILITARY WORKS, No. 20.

No 1,113, 8th April 1868.

1. In pursuance of the instructions contained in the orders marginally noted, the Acting Superintending Engineer of the 4th Division submits plans and estimates for the following works in connection with the quarters recently erected on the Esplanade for the Warrant Officers attached to the Arsenal:—

	Rs.
1. Drainage of buildings	16,200
2. Distribution of water from the Seven Wells main pipe	11,850
3. Forming roads	3,550
4. Planting trees and fencing	12,900
Total	44,500

2. The Government sanction these estimates, and approve of the arrangements for water supply and drainage detailed in paragraphs 3 and 4.

3. Authority has already been granted for carrying out the works, and the Government will endeavour as the year advances to adjust the outlay that may be incurred, by transfers.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 4th Division.
.. Accountant General.
.. Controller of Public Works Accounts.
.. Military Department.

Exd. S. T. Augustin.

N^o 4237 Sup^y Engrs Office S^d D^y
Madras 30 November 1868

From,
Lieut. Colonel J. Bean R. E.
A^y Superintending Engineer S^d D^y

To,
Colonel C. A. Orr R. E.
Secretary to Government P. M. Dep^t

Sir,
I have the honor to forward for approval with reference to G. O. N^o 1113 dated 8th April, 1868, plans, estimates and specification, as per margin, amounting to Rupees 44,500; for supplying water from the Seven Wells to the new Ordnance Lines on the Esplanade occupied by the Warrant Officers attached to the Arsenal, and for providing drainage, fencing, and planting with trees the compound of the Quarters.

2 The estimates have been considerably reduced in this Office, and they make provision for the following works at the cost entered

entered opposite each item.

- 1 Providing Teakwood Palisading for each Quarter with gates } Rs 11,200
 - 2 Forming roads throughout the Lines — 3,550
 - 3 Providing Canvas Planks and Zinc gutters to each Quarter } — 3,100
 - 4 Constructing Reservoir for storage of water — 2,100
 - 5 Laying down main and service pipes to each building } — 8,200
 - 6 Constructing open and covered drains — 13,100
 - 7 Constructing a flushing Cistern for drains — 1,550
 - 8 Planting trees round each Quarter — 1,700
- Total Rs 44,500

Advantage will be taken from the proximity of the main pipe from the Chuan Wells Reservoir leading to the Fort, to lay down a branch pipe in the vicinity of Patchiappah's Hall, to supply a reservoir at the North West extremity of the Lines, from which a main pipe will be carried throughout the extent and to the rear of the Quarters, terminating in a small flushing reservoir near the General Hospital Road, and from which main pipe, service pipes will be laid

to each quarter and fitted with a stand pipe, and cock. The storage reservoir will also be used for flushing purposes.

Advantage will be taken, also, of the covered Black Town main drain, which crosses to the sea near the Centre of the Lines for the purpose of discharging the bath and Cook rooms water into it. Open drains from these buildings will discharge into a covered masonry drain which will slope from its two extremities to the Black Town drain, and it is hoped that by means of the good fall obtainable, and the command of water gained for flushing them occasionally, no inconvenience will be felt from imperfect drainage. Captain Goddard calculated the storage Reservoir to contain 22000 gallons of water, sufficient for a ten days supply, but his calculation was based on 8 gallons per head per diem. I would propose that the Reservoir should be filled every second day, so as to afford a fair supply for each family for all purposes.

The

Mr. Moore

5 The works have already been put in hand, as the Palings have been erected around most of the Quarters in occupation, and the roads constructed, as well, as considerable progress made in planting trees. The outlay, I understand from the Executive Engineer, has been incurred on your personal orders to him, and amounts to the end of October to Rupees 3923. The cast iron water pipes have all been ordered from the Government Foundry, and are nearly ready, so I trust Government will be able to allot funds to complete the work this year.

I have the honor to be
Sir
Your most obedient servt
Rear Lt Col R.E.
A. J. Sup. of Engrs. D. J.

P. W. Dept.
From, The Asst. Superintending Engineer
4th Division

To, The Secretary to Government
Public Works Dept.

Dated 30th November 1868
Recd. 1st Dec 1868

No. 4237
Forwarding with remarks
Plan, Estimate and specification
amounting to Rs 44,500 for
supplying water from the
seven wells to the new
Ordnance Vines on the
Esplanade occupied by
the Warrent Officers
attached to the Arsenal.

A-269

C-7 Nov 1868 Or. 82

Mr Works

Public Works Department.

3872

No 3872

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 12th December 1868

Read the following

From The Asst. Superintending Engineer
4th Division (Here enter No. *4237* dated *30th November 1868*)

No. 1113. 8th April 1868

In pursuance of the instructions contained in the orders marginally inserted, the Acting Superintending Engineer of the 4th Div. submits plans and estimates for the following work, in connection with the Quarters recently erected on the Esplanade for the Warrent Officers attached to the Arsenal -

N. 2
W. 2

A. 1

with two proposals for Drainage

Drainage of buildings - Rs 16,200
 Distribution of water from
 the Seven Wells main pipe - " 11,850
 Forming Roads - " 3,550
 Planting trees and fencing - " 12,900
Total Rs 44,500

The Government
 sanction these Estimates,
 and approve of the
 arrangements for water
 supply and drainage
 detailed in pages 3
 and 4.
 Authority has
 already been granted
 for carrying out the
 works, and the Government

will endeavour as the
 year advances to
 adjust the outlay that
 may be incurred, by
 transfers.

W.B.

P. Engr. L. the Estimate no. 11
 Accd. Genl ✓
 Comdr. Mr. ✓
 M. J. Dept. ✓
 41/5
 Sept. 15/12/18

Cic 678
Govt. of 1868 Madras.

PUBLIC WORKS.

To *The Superintendent Eng^r*
4th Division

de, de, de

Dated *12th*

Recd.

Enc^d.

G. O. 12th Dec 1868, No. 3872

Nos. 269 1270

Warrant Off^r quarters. Estimates
amounting to Rs 4,500 for certain
works in connection with the
Warrant Off^r quarters on the
planable. Madras. Sanitation