

(1) Number of pages 112

(2) Date of repair 12.7.33

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 253

Press
Mis.

490-91

Dated 25. 1 1872.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
25th January 1872.*

No. 490. Read the following letter from the Superintending Engineer, 4th Division, to the Secretary to Government, Public Works Department, dated Madras, 7th December 1871, No. 3,634 :—

I HAVE the honour to submit, for the sanction of Government, a revised estimate, amounting to Rupees 23,222, together with a comparative statement, for constructing a high and low level reservoir, with branch pipes, for distributing water to the lower and upper wards of the General Hospital at Madras.

1 Comparative Statement.
1 Revised Estimate.
1 Plan.

2. The original estimate for this work, sanctioned in G. O., No. 3,871, dated 12th December 1868, amounted to Rs. 13,400. The excess is, therefore, Rs. 9,822, or about 72½ per cent. on the originally estimated cost.

Rupees	23,222
„	13,400
„	<u>9,822</u>

3. This excess is due partly to certain additional works not provided in the original estimate having already been carried out by my predecessor Lieutenant-Colonel Bean, R.E., and partly to 3-inch iron pipes having to be substituted for the one inch pipe originally provided, in order to secure a sufficient discharge to meet the required demand of the institution, as well as to a larger number than was included in the sanctioned estimate of small brass cocks being found absolutely necessary for the proper distribution of water.

4. The excess on the extra works carried out by Colonel Bean are as follow :—

	RS.	A.	P.
An additional line 913 feet in length of 3-inch pipes laid down at a cost of	976	4	0
An additional length of 53 feet of 5-inch socket pipes	180	9	2
Four 5-inch brass cocks and one 3-inch brass cock	764	2	10
Forty large granite stones put up for the springs of the arches rendered necessary by the substitution of arches for terracing for the floor of the upper cistern	370	0	0
Nine iron tie-rods with straps, etc.	246	15	9
Four leaden shoots and four zinc trunks	92	0	3
	<u>2,630</u>	<u>0</u>	<u>0</u>

5. If to this be added the increased cost of the 3-inch iron pipe and brass cocks amounting to Rupees 5,212, and a further sum of Rupees 1,980 being the value of wrought iron pipes, etc., which are now borne on the stock accounts of the range, and which will have to be

Rupees	2,630
„	5,212
„	<u>1,980</u>
„	9,822

paid for when used on the works, the gross amount of excess will be Rupees 9,822 as already stated in paragraph 2 of this letter.

*Proceedings of the Madras Government, Public Works Department,
25th January 1872.*

6. A sum of Rupees 11,618 has been spent on the work up to the end of the past official year, adding to this the current year's grant Rupees 1,800, the additional allotment now required will be Rupees 9,804, which I beg may be taken from the grant Rupees 32,000 for
- | | |
|---------------|--|
| Rupees 11,618 | |
| „ 1,800 | |
| „ 9,804 | |
| „ 23,222 | |

improvements to the Penitentiary, as Rupees 26,000 from this grant is not likely to be required in consequence of the upper stories to blocks Nos. 1 and 2 being now considered unnecessary, whilst it is very important that the reservoir and the laying of pipes should be completed before the end of the official year.

7. A plan showing the works done and those still remaining to be done accompanies the comparative statement.

No. 491.

ORDER THEREON, 25th January 1872, No. 253.

IRRIGATION, No. 44.

In their order of the 12th December 1868, No. 3,871, the Government accorded their sanction to an estimate of

Rupees 13,400, for the construction of reservoirs for the storage and distribution of water, to the Civil and Military Divisions of the General Hospital and Medical College at Madras.

2. The Superintending Engineer now brings to notice that this estimate is likely to be exceeded by Rupees 9,822, for which sum he requests the sanction of Government.

3. The Superintending Engineer shows that of this excess Rupees 2,630 are on account of additional works not provided for in the original sanction which were ordered to be carried out by Lieutenant-Colonel Bean, late in charge of the division. Details of these works are given at the foot of paragraph 4 of the letter above recorded.

4. The remaining portion of the excess, amounting to Rupees 7,192, occurs under the heads "Pipes" and "Turn Cocks." A larger number of the latter has been found to be actually necessary for the proper distribution of the water, and as regards the pipes it is explained that, in order to secure the necessary discharge, a larger number had to be provided and 3-inch pipes substituted for the 1-inch pipes originally estimated for.

5. The Government consider the state of things herein brought to notice most unsatisfactory and discreditable to the Department of Public Works, whereby an estimate for work that is readily susceptible of accurate calculation is reported as likely to be exceeded by the large per-centage of 72½. Colonel Bean, Superintending Engineer, acted most unwarrantably in sanctioning extensive additional items without obtaining the authority of Government.

6. As regards the supply of cast-iron pipes costing Rupees 5,212 in substitution for 1-inch pipes previously provided at a cost of Rupees 1,980, the Government desire to be informed who is responsible for the purchase of the latter article and what prospect there is of their being utilized, also from whence they

*Proceedings of the Madras Government, Public Works Department,
25th January 1872.*

were purchased, and that further explanation may be given of the circumstances under which it was considered necessary to substitute 3-inch pipes. The details of the cost of the latter article should at the same time be supplied.

7. When submitting the explanation called for in these Proceedings, Colonel Wilkieson will also state the source from which he purposes to supply himself with funds for completing the work, as from G. O., No. 1,632, it will be seen that a large portion of the current year's allotment for the Penitentiary from which it was recommended that the laying of the pipes should be completed has been set apart for certain works which are to be carried out in connection with the Penitentiary buildings during the current year.

(True Extract.)

(Signed) J. CARPENDALE, Colonel, R.E.,

Secretary to Government.

To the Superintending Engineer, 4th Division.

Controller of Public Works

Exd. E. C. Shunker.

N^o 3634.

Supg Engineer's Office, Madras
7th December 1871

From,

Colonel G. T. Wilkinson M.C.
Supg Engineer to Division

To,
Colonel J. Compudale M.C.
Secretary to Government
P. W. Department

Enclosures 3
1 Comparative
Statement.
1 Revised
estimate.
1 Plan.

Sir,

I have the honor to submit
for the sanction of Government a revised
estimate, amounting to Rs. 23,222 &
together with a comparative statement,
for constructing a High and Low level
Reservoir with branch pipes for
distributing water to the lower and
upper wards of the General Hospital
at Madras.

2 The original estimate for this
work sanctioned in G.O. N^o 3871 dated
12th December 1868, amounted to Rs. 13,400.
The excess is therefore Rs. 9,822 or about
72 1/2 per cent on the originally estimated
cost.

Rs. 23,222
"- 13,400
Rs. 9,822

This

3 This excess is due partly to certain additional works not provided in the original estimate having already been carried out by my Predecessor Lieutenant Colonel Bean R.E. and partly to 3" Iron pipes having to be substituted for the one inch pipe originally provided, in order to secure a sufficient discharge to meet the required demand of the Institution, as well as to a larger number than was included in the sanctioned estimates a small brass cocks being found absolutely necessary for the proper distribution of water.

4 The excess on the extra works carried out by Colonel Bean are as follows.

An additional line 913 feet in length of 3" pipes laid down
at

at a cost of Rupees 976-4-

An additional length of 53 feet of 1 inch socket pipes — 180-9-2

4 Five inch brass cocks and one 3" brass cock — 764-2-10

40 Large granite stones put up for the springs of the arches rendered necessary by the substitution of arches for terracing for the floor of the upper cistern — 370- -

9 Iron tie rods with straps &c — 246-15-9

4 Leaden shoots and 4 Zinc Trunks — 92- -

Rupees 2630- -

5 If to this be added the increased cost of the 3 inch iron pipe

pipe and brass cocks amounting to
 Rs 5,212, and a further sum of
 Rs 1,980 being the value of wrought
 iron pipes &c. which are now borne
 on the Stock Accounts of the Range
 and which will have to be paid
 for when used on the works, the
 gross amount of excess will be
 Rs 9,822 as already stated in para
 2 of this letter.

Rs 2,630
5,212
1,980
<u>Rs 9,822</u>

6 A sum of Rs 11,618 has
 been spent on the work up to the end
 of the past official year, adding to this
 the current year's grant Rs 1,800, the additional
 allotment now required will be Rs 9,804
 which I beg may be taken from the grant
 Rs 32,000 for Improvements to the
 Penitentiary, as Rs 26,000 from this
 grant is not likely to be required
 in consequence of the upper stores
 to Blocks Nos 1 and 2 being now
 considered unnecessary, whilst it is
 very important that the Reservoir

Rs 11,618
1,800
9,804
<u>Rs 23,222</u>

and

and the laying of pipes should be
 completed before the end of the
 official year:

I A plan showing the
 works done and those still remaining
 to be done accompanied the comparative
 statement

I have the honor to be
 Sir
 Your most obedient servant

W. H. Wilson Colonel R.E.
 Superintending Engineer 4th Division

W.H.W.

Revised Estimate of the Toronto
 Rooms with branch pipes &
 of the General Hospital and
 main and distribution pipes
 for the lower story of the Old

Measurements

Number	Length	Width	Height	Depth	Length	Description
4	14-6	7-6	8-6	"	3480	Occasional
6	11-6	7-6	8-6	"	4140	Do to
8	5-3	7-6	6-6	"	1890	Do to
2	7-9	7-6	6-6	"	697 1/2	Do to
3	8-9	7-6	6-6	"	1181 1/4	Do to
1	9-8	3-6	4-6	"	1372	Do to
2	4-6	3-6	3-6	"	94 1/2	Do to
1	10-6	3-6	3-6	"	187 1/2	Do to
4	3-6	3-6	3-6	"	147	Do to

Total 13189 3/4 or 488 1/2 Cords
 and levelling

2	11-6	15-6	1-6	"	534 3/4	Basement to
2	8-6	15-6	1-6	"	395 1/4	Do to

Total 930 or 34 1/2 Cords
 to basement

1	13-6	7-6	2-6	"	756	Concrete to
6	11-6	7-6	2-6	"	924	Do to
8	5-3	6-6	2-6	"	546	Do between
2	7-9	6-6	2-6	"	201 1/2	Do to end
3	8-9	6-6	2-6	"	341 1/4	Do to centre

34

259

236

1250

108

5514 955

Hospital

Dec 12 1887

Dec 18 1887

Dec 18 1887

Dec 18 1887

Dec 18 1887

Dec 18 1887

Dec 18 1887

Dec 18 1887

- 2 High and Low Level
- 3 Trapped and lowerwards
- 4 Collected with a brand
- 5 with basins and sinks

Measurements

Number	Length	Width of architrave to top of capital	Length	Length
4	14-64-68	"	3480	Excavation to Side on all crops walls
6	11-64-68	"	4140	Do. to Side walls
8	5-37-66	"	1890	Do. between pillars
2	7-94-66	"	697 1/2	Do. to end crops walls
3	5-97-66	"	1181 1/4	Do. to centre Do.
1	98-3-64	"	1372	Do. to Steps
2	4-63-63	"	94 1/2	Do. to Side Do.
1	10-63-63	"	187 1/2	Do. to Cistern
4	3-63-63	"	147	Do. to Side Do.

Sold for 13189 3/4 or 488 1/2 Cords Excavating Foundations
and levelling the ground 18th 1894

2. 11-6-15-61-6 " 534 $\frac{3}{4}$ Rosemount Hotel Rooms
2. 8-6-15-61-6 " 395 $\frac{1}{4}$ Gr. 6 Centre Gr.

Total 930 or $34\frac{12}{27}$ Cords Stilling river sand
to basement and well ramming,
with water 18" to Cisterns.

1	13-67-24	"	756'	Concrete to Sides and end walls.
6	11-7-24	"	924'	Do. to Side walls
8	5-3-62	"	546'	Do. between pillars.
2	7-9-62	"	201 1/2'	Do. to end cross walls.
3	8-9-62	"	341 1/2'	Do. to centre Cross Do.

Hospital

11/12	Ans
Bo	Ans.
Paper	Paper
Amas	Amas
Bre	Bre
Paper	Paper
Amas	Amas
Bre	Bre

26 Syd 76 53 ✓

3.4. 40. 11.5

Dec 12 1898

Oct. 1871. Herbert
C. Potter

No. 5832

Wm. Lloyd Garrison
at Boston

to the Secretary of the Department

Robert
J. Schmitt

Oct 1st 1877

Enc 3. *[Signature]* 3634

[illegible]

Public Works Department
 Proceedings of the Madras Government
 Under date the 25th Decr/71
 Reads the following

From The Supor Engr { H.E. No. 3634 of 7th Decr/71 }
 Hth Secy

In their order of
 the 12th December 1868,
 No. 3871, the Government
 accorded their sanction
 to an Estimate of
 Rupees 13,400, for the
 construction of Reservoir
 for the storage and dis-
 tribution of water, to
 the Civil and Military
 Divisions of the General
 Hospital

Dated 23rd
 Decr 1871

No. 121.

P. N. 5832/71

General Estimate for
 Constructing High & Low Level
 Reservoir with Branch Pipes

34

259

1250

108

40

55644

59

Public Works Department
 No. 253
 Proceedings of the Madras Government
 Under date the 25th Day 192
 Read the following

From The Sup^g Engr^s } H.E. No. 36343/7th Decr/71
 Hth Sec^y }

In their order of
 the 15th December 1868,
 No. 3871, the Government
 accorded their sanction
 to an Estimate of
 Rupees 13,400, for the
 construction of Reservoirs
 for the storage and dis-
 tribution of water, to
 the Civil and Military
 Divisions of the General
 Hospital.

Dated 23rd
 Decr 1871

No. 121.
 P. N. 5832/71

General Estimate for
 Constructing High & Low Sea
 Reservoir with M. bench pipes

No. 253-25th Decr/72

No. 253-25th Decr/72

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Hospital and Medical
College at Madras.

The Superintend-
ing Engineer now brings
to notice that this Esti-
mate is likely to be ex-
ceeded by Rupees 9,822,
for which sum he re-
quests the sanction of
Government.

The Superintending
Engineer shows that of
this excess Rupees 2,630, are
on account of additional
works not provided for
in the original sanction
which were ordered to be
carried out by Lieut
Colonel Beem, late in
charge of the Division.

Details

Details of these works
are given at the foot
of para 4 of the letter
above recorded.

The remaining
portion of the excess
amounting to Rs 7,192,
occurs under the heads
"Tipes" and "Turn Co's".
A larger number of
the latter has been found
to be actually necessary
for the proper distribu-
tion of the water, and
as regards the pipes,
it is explained that in
order to secure the ne-
cessary discharge

a larger number
had to be provided and

3" pipes substituted for
the 1" pipes originally
estimated for.

The Government
to consider the state of things
herein brought to notice
most unsatisfactory and
for discreditable to the De-
partment of Public
Works, whereby an Esti-
mate for work that is
readily susceptible of
accurate calculation, is
reported as likely to be
exceeded by the large
percentage of $72\frac{1}{2}$.—
Colonel Beane Superin-
tending Engineer acted
most unwarrantably
in sanctioning extensive
additional

additional items with-
out obtaining the
authority of Govern-
ment.

As regards the
supply of Cast Iron
pipes costing Rupees 5,200
in substitution for
1" pipes previously pro-
vided at a cost of
Rupees 1,980, the Govern-
ment desire to be
informed who is res-
ponsible for the pur-
chase of the latter
article and what pros-
pect there is of their
being utilized, also from
whence they were pur-
chased, and what
further

3 further explanation may
be given of the circum-
stances under which it
was considered necessary
to substitute 3" pipes.

The details of the costs
of the latter article should
at the same time be
supplied.

When submitting
the explanation called for in
the Proceedings Colonel
McKieson will also state
the source from which he pro-
poses to supply himself with
funds for completing the
work, as from G.O. No 1632,
it will be seen that a large
portion of the current year's
allotment for the Penitentiary
from

Ind. Dept. of Li. (Secy.)
G.O. No 1570/22/12

from which it was recom-
mended that the laying
of the Pipes should be
completed has been set
apart for certain works
which are to be carried
out in connection with
the Penitentiary buildings
during the current year.

J. W. 20/2/72

To the Supd. Engineer
" Controller
Decr 26/1/72

Op 5832

Govt of 1872 Madras.

PUBLIC WORKS.

To The Superintending Engineer,
3rd Division

Dated

Recd.

No. 3

G. O. 25th Aug 1872 No. 253.

Nos. 490 & 491

crosses. Paper index,
the letter from the M.P.
of the H. B. authority
raised estimate for the
construction of Reservoirs
the storage & distribution
of the Civil & Military
wards of the Gul No. 1
Res.

(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. 254-25.

492-93-94.

Press
~~Mis.~~

Dated 26. 1. 1872.

Not to be folded or roughly handled