M.R.O. 1—10,006—28-2-50.

(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. 1579 Press
~~B.P. No.~~ ~~Mis.~~
277-278.

Dated 15-6-1874 ~~195~~ .

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
15th June 1874.

No. 277. Read the following letter from Colonel E. A. FOORD, R.E., Inspecting Engineer for Civil and Military Buildings, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Coonoor, 25th April 1874, No. 629 :—

I HAVE the honour to forward, for the sanction of Government, estimates amounting to Rupees 12,970, accompanied by plans and specifications, for connecting the Municipal main pipe with the Seven-wells pipes, in order that the under-mentioned buildings may be supplied with water from the Red Hill tank :—

6 Plans.
4 Abstract estimates.
4 Specifications.

	Rs.
Fort St. George Project	2,910
General Hospital do.	2,780
Government House do.	7,210
Lock Hospital	70
Total...	12,970

2. Estimates for the supply of the General Hospital and Fort St. George were received from the District Engineer in April 1873, but as they were not accompanied by plans showing the arrangement of the pipes and the positions of the meters and valves, they were returned to him. The same estimates accompanied by others for the supply of the Penitentiary, Body Guard Lines, Government House, and Lock Hospital were received in October 1873, but they could not be submitted for the sanction of Government, as the plans which accompanied them did not contain sufficient information by which the estimates might be checked, and there were no specifications.

3. The estimates have been prepared by the Municipality, by whom the work is to be done. The great delay there has been in furnishing the estimates is attributed to the illness of the Executive Engineer, and the pressure of work in the Municipal office, but the additional information that was called for might easily have been supplied in much less time.

4. As the main passes close to the General Hospital, a junction with the Seven-wells pipes at that building can be easily and quickly made. A larger water-supply, than is obtainable from the Seven-wells, is urgently required there, particularly since the punkah engine has commenced to work. More than half the estimate of Rupees 2,780 for this building, and also of the estimate of Rupees 2,910 for the Fort, is for meters. The annual daily consumption at the Fort is estimated at 112,614 gallons, and at the General Hospital at 10,570 gallons.

5. The original estimate of Rupees 5,150 for the supply of Government House has been increased to Rupees 7,210, by the provision of a filtering fountain, and additional lines of pipes, at the request of the Private Secretary to His Excellency the Governor. The small amount of work required at the Lock Hospital has already been carried out by the Municipality, at the request of the Medical authorities. The estimates for supplying the Body Guard Lines, Lying-in Hospital, and Penitentiary, will be forwarded, when received, duly countersigned by the heads of the departments concerned.

6. It is proposed to maintain in working order the lines of pipes from the Seven-wells, in order to be able to revert to that source of supply if necessary. The analysis made by the Chemical Examiner at the beginning of last year showed that the Red Hill water was purer than that from the Seven-wells.

No. 278. ORDER THEREON, 15th June 1874, No. 1,579.

CIVIL WORKS, No. 20.

WITH this letter the Inspecting Engineer submits the under-mentioned estimates for extending the Madras water-supply :—

	RS.
I.—To Fort St George	2,910
II.—To General Hospital	2,780
III.—To Government House	7,210
IV.—To Lock Hospital	70

Estimates for the water-supply to the General Hospital were called for as far back as November 1873 (G. O., No. 125) and are stated to have been delayed in the office of the Municipal Executive Engineer. The attention of the President will be called to this delay, as well as to that connected with the revised estimate for the supply of the Body Guard Lines, an advance of Rupees 3,000 for which was authorized in the orders of the 28th March 1873, No. 979. It is much to be regretted that this subject has not long since been disposed of by the Municipality.

2. His Excellency the Governor in Council sanctions the estimates submitted; and, pending the construction of the new buildings for the Body Guard, authorizes Rupees 2,910 of the amount advanced for the supply of the lines to be utilized on the Fort St. George project.

3. The Financial Department will be requested to make an allotment of Provincial Funds to enable the remaining works* to be pushed on, and the Municipality will be requested to expedite them; it being important that the Government House supply should be carried out to completion before the return of His Excellency the Governor to Madras.

* Lock Hospital supply completed.

4. It is observed that the Inspecting Engineer has omitted to give reference to any orders calling for estimates for the Fort St. George and Government House supply.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Presidency.
" President of the Municipal Commission, Madras.
" Officiating Controller of Public Works Accounts.
" Financial Department.
" Military do.

Exd. T. O'Connor.
Spare Copies

My dear Mr. Johnston
Please let us
have the plans
& Estimates
for laying down
pipes on Fort
Glacis Hospital
& Govt House
Lodge Grounds
& Farm
30
+ 3

Specification report to accompany an Estimate for laying down wrought iron pipes from the municipal main pipe to Hospital (Lock)

Amount of Estimate £. 90 — — —

Laying down [illegible] pipe of 15 feet long with bends and stop and discharging cocks &c. to be bored and fixed in the Municipal main pipe.

The above mentioned articles with cutting walls and pipes wherever necessary are to be supplied by and executed by the Municipality.

R. Stephenson
Assistant Engr.

Lieut. Col. R. E.
District Engineer Presidency

Ft St. George
9 March 1743

Fort Saint George
March 1743

Specification Report to accompany an Estimate for laying down Cast and wrought pipes from Municipal main to Government House Madras.

Amount of Estimate Rs 5750-0-0

Laying down the 4" pipe of 1350 feet long to be laid and fixed in the Municipal main pipe of 27" by a Saddle piece with one Valve 2 tail pieces & 1 masonry Valve house, two bends of 1/4 1/8 angles and double branch &c from Vallajah Road to Stable Yard.

One branch pipe of 4" diameter of 180 feet long to be laid from 4" main to large tank with one Valve 2 tail pieces & 1 masonry Valve house

One branch pipe of 3" diameter of 198 feet long to be laid from 4" main to main building and Private Secretary office with one Valve, 2 tail pieces & one masonry Valve house

Two 2½" branch pipes to be laid and from 3" pipe to supply for 4 bath rooms of main building & another from 4" pipe to supply for bath room of the Bungalow and [illegible] from [illegible] pipe [illegible] main

132 feet of pipes for the former & 354 feet long for the latter with Couples of 3" × 2½" one 1" 3 Valves & tail pieces and masonry Valve houses 1 bend of 1/4 angle &c

Two 2" branch pipes of 163 feet to be laid from the 4" main pipe and to Cook room & another to Stand pipe of spout to each houses with 4 bends of 1/4 angle each

2 Stop cocks and Couples &c

The above mentioned articles with bolts nuts Screws Iron & rubber washers Covers & keys and cutting walls & pipes &c &c are to be supplied by and executed by the Municipality.

H. Stephenson
Assistant Engineer.

Dray. Draft Engineer Office
Fort St George
6th March 1874

Fort St George
March 1874

I do approve
J. Anderson Lieut Col R.E.
Chief Engineer Dray.

Estimate in a letter
No 629 dt 25th April 1874
Rs. 5750-0-0
Rs. 25755/74
11

Specification Report
to accompany an
Estimate for laying
down Cast and
wrought pipes from
Municipal main
to Government House
Madras.

Rs 5750-0-0

Specification report to accompany an Estimate for laying down cast and wrought Iron pipes from Municipal Main No 1 Well Wall supplied to Fort from Monument Esplanade.

Estimate of Estimate Rupees 2910-- ——

Laying down 9" bend of 45 angle to 12 pipes and placed in the same 20" diameter with one Rupee

of 9"x6" pieces and 6" pipe of 24 feet long, one meter with 2 flanged branches 3 valves and 6 tail pieces and

2 bends of 45 angle, also 1-5" double branch, 1-4" single

bends 1-6" valve with 2 tail pieces 1-4" valve with

2 tail pieces 1/24

This abovementioned articles with

bolts, nuts, screws, pins & rubber washers, screws & keys & cutting

wells & pipes etc. Incidentary expenses supplied by and

will & pipes etc. Municipality

Recorded by the Municipality

Asst Civil Engr
9 March 1874

Executive Engr
Madras 6/4/74.

Asst Engineer Fort St. G. P.S.

Assistant Engineer Presidency

Presidency Dist.

Enclosure in a letter
No. 629 dated 25th April 1874
Rg. 765 dated June 74
In 1821 277

W. 2575/74
12

Specification report to accompany an Estimate for laying down Cast and wrought Iron pipes from Municipal Main No 1 Well Wall supplied to Fort from Monument Esplanade.

Estimate Rupees 2910-- ——

7/541/74

Specification Referred to accompany an Estimate for
Laying down the Cast Iron Water Mains in Front Premises
mentioned in General Hospital Bradras.

Amount of Estimate Nº 2780
Laying down 12" Main at 10/6 per Lineal Yard
bored and plugged with Lead 21" diameter
with 10" Main 3/6 per Lineal Yard
and connected with 2 double Branches, 3 Valves 6 taps
Valves, 2 Lunds of 16 cwts, and Brasses complete
Lunds 4/6 also and taps at 3/6 "and 3 Valves at 8 per
Long and 1 Lunds to be laid and the existing
3" Main at 10/6 per Lineal Yard 2
Valves 4 Nail Holes and 2 Brasses Valves
Lances.

Plus Labour in removing Lineal articles, &c
to be removed and rubbish removed, cause.
and keys and Attendance and Force
necessary as to be specified in
executed by the Principal

R. Clarke Lieut Colonel R.E.

Assistant Engineer.

Engineer Office
Fort Lamont Quebec
9th March 1874

Victoria Surveyor Division

Lord David Gordon
March 1874

Presidency District

Enclosure in a letter
No. 629 D/ 25th April 1874
R.E. D/ 15 June/74
In R.E. 227
P.W. 2575/74
13

Specification Report
to accompany an Esti-
mate for Laying down
Cast and wrought iron
pipes from Municipal
Main to 7 Wells Water
Supply to Fort Lamont
Monument Esplanade.
Estimate Rs. 2910

Estimate Rs. 10—"

Office of the Inspecting Engineer
for Civil & Military Buildings
Coimoor 25th April 1874.

No 629

From

Colonel E. A. Foord R.E.
Inspecting Engineer for Civil
& Military Buildings

To

Colonel G. W. Walker R.E.
Secretary to Government P.W.D.

Sir,

I have the honor to forward for the sanction of Government estimates amounting to Rupees 12970, accompanied by plans and specifications, for connecting the Municipal main pipe with the Seven Wells pipes in order that the undermentioned buildings may be supplied with water from the Red Hills tank.

Enclosures 14.
1 Plans
1 Abstract estimates
1 Specifications.

	Rupees
Fort St George Project	2910
General Hospital "	2780
Government House "	7210
Lock Hospital	70
	Rs 12970

2

Enclosure in a letter
No 629 dated 25th April 1874
from Dist Engr
No 2575
14

Recommended for
sanction
Dist Engr

Recommended for sanction
Chief Engr

Recommended for sanction
Surgeon General Hospitals
Madras

Entered No 2786

4

2. Estimates for the supply of the General Hospital and Fort St. George were received from the District Engineer in April 1873, but as they were not accompanied by plans shewing the arrangement of the pipes and the positions of the meters and valves, they were returned to him. The same estimates accompanied by others for the supply of the Penitentiary, Body Guards Lines, Government House and Lock Hospital were received in October 1873, but they could not be submitted for the sanction of Government, as the plans which accompanied them did not contain sufficient information, by which the estimates might be checked, and there were no specifications.

3. The estimates have been prepared by the Municipality, by whom the work is to be done. The great delay there has been in furnishing the estimates is attributed to the illness of the Executive Engineer and the pressure of work in the Municipal Office, but the additional information that was called for might easily have been supplied in much less time.

4. Is the main passes close to the General Hospital, a junction with the Seven Wells pipes at that building can be easily and quickly made. A larger water supply, than is obtainable from the Seven Wells, is urgently required there, particularly since the punkah engine has commenced to work. More than half the estimate of Rupees 2780 for this building, and also of the estimate of Rupees 2910 for the Fort, is for meters. The annual daily consumption at the Fort is estimated at 11261/2 gallons and

and at the General Hospital at 10570 Gallons.

5. The original estimate of Rupees 5150 for the supply of Government House has been increased to Rupees 7210, by the provision of a filtering fountain, and additional lines of pipes, at the request of the Private Secretary to His Excellency the Governor. The small amount of work required at the Lock Hospital has already been carried out by the Municipality, at the request of the Medical authorities. The estimates for supplying the Body Guard Lines, Lying in Hospital and Penitentiary will be forwarded when received duly countersigned by the Heads of the Departments concerned.

6. It is proposed to maintain in working order the lines of pipes from the Seven Wells, in order to be able to revert to that source of supply if necessary. The analysis made by the Chemical Examiner, at the beginning of last year, showed that the Red Hill water was purer than that from the Seven Wells.

I have the honor to be

Sir

Your Most Obedient Servant

E A Ard Colonel RE.

Inspecting Engineer for

Civil & Military Buildings.

Public Works Department

Proceedings of the Madras Government

Read the following:-

From

The Superintending Engineer (N: C: Dt: 629 of 25th April)
for Buildings

To

The Secretary to Government
P. W. Deptt.

Dated 25th April 1876

Submits three letters from the Superintending Engineer for Buildings calculate the amounts contained estimates for extending the Madras Water Supply.

I. Do Estimate for Fever Hospital Rs 2910
II. " General Hospital " 2480
III. " Government House " 1210
IV " Cook Hospital " 70

Estimates for the water supply to the Viceroy Hospital were called for on four tanks as enumerated in (G.O. 1235) and are stated to have been delayed

P. W. 1874 Dept.
No: 2575.

From
The Superintending Engineer
for Buildings

To
The Secretary to Government
P. W. Deptt.

Dated 25th April 1876
Recd 29th "
Encl. 14

Forwards for sanction estimates Viz amounting to Rs 12970 for connecting the Municipal drain pipe with the sewer well & pipes in order that certain buildings at Madras may be supplied with water from the Red Hill Tank.

G.O. No: 1875. 15-6-74

No 2575

Recd 1st May 30 April 74

delayed in the office of the Municipal Executive Engineer. The attention of the President will be called to this delay, as well as to that connected with the revised estimate for the supply of the Body Guard Lines, an advance of Rs 3,000 for which was authorized in the orders of the 28th March 1873, No 979. It is much to be regretted that this subject has not long since been disposed of by the Municipality.

His Excellency the Governor in Council sanctions the estimates submitted and, pending the construction of the new buildings for the Body Guard, authorizes Rs 2910 of the amount advanced for the supply of the Lines to be utilized on the Fort St George Project.

The Financial Department will be requested to make an allotment of Provincial funds to enable the remaining works to be pushed on, and the Municipality will be requested to expedite them; it being important that the Government House supply should be carried out to completion

* Lock Hospl. supply completed.

before the return of
His Excellency the
Governor Madras.

It is observed that
the Inspecting Engineer
has omitted to give
reference to the Order
calling for estimates
for the Fort St George
and Government
House sinfully, ~~and~~
~~omission which will~~
~~not be pardoned~~

~~Ltt~~

55
2

To Asst Engr for Bgo.
5 District Engr. St Fort
President of the Innr
Commrs Madras
Contr St Fr. Accts with
4 A.C. Estimates
Civil Departt
Mily Departt
Cr. Copies despd to all 23/6/14.

277-278

Rcd. 26/5/14
Cir 21 May/14

2575

Govt. of {1874} Madras.

PUBLIC WORKS.

To The Secy.
Residency.

Dated

Recd. Encl. 10

G. O. 15th June 1874, No. 1679

Nos. 277-278.

Water supply

Estimates for connecting the Municipal main pipe with the Seven Wells pipes in order to supply certain buildings at Madras with water from the Red Hill Tank, sanctions of with remarks.