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(2) Date of repair _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2723	Press
B.P. No.		Mis.
Dated	25-9-	4874-195-

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
25th September 1874.*

Read the following papers:—

No. 540. From W. S. HARRINGTON, Esq., District Engineer, Malabar, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Calicut, 18th May 1874, No. 40.

I HAVE the honor to forward an estimate* for sinking a well near the elephant shed at Cannanore for sanction and allotment of funds.

* Rupees 1,360.

2. The estimate was called for by the local Military Authorities, and has met with the approval of His Excellency the Commander-in-Chief.

No. 540-A. From the same Officer, dated Calicut, 13th August 1874, No. 103.

As directed in your memorandum, No. 440, dated 18th June last, I have the honor to forward a plan, estimate, and specification for sinking a well near the elephant shed at Cannanore.

2. The estimate forwarded with my No. 40, dated 18th May last, amounted to Rupees 1,360, the present one to Rupees 690, the reduction in cost being Rupees 670.

No. 540-B. From the same Officer, dated Calicut, 1st September 1874, No. 117.

WITH reference to your memorandum, No. 646, dated 20th ultimo, I have the honor to forward copy of letter, No. 2-755, dated 28th idem, from the Brigade Major, Malabar and Canara, furnishing the required information as to the necessity for sinking a well near the elephant shed at Cannanore, and stating the cause of the insufficiency of the former supply.

From Captain W. CONNINGHAM, Brigade Major, Malabar and Canara, to Lieutenant A. E. DOBSON, R.E., Assistant Engineer, Malabar, dated Cannanore, 28th August 1874, No. 2-755.

IN reply to your letter No. 309, dated 26th instant, I have the honor, by order, to inform you that it is considered essentially necessary that another well should be sunk near the elephant sheds, consequent on the allotment of elephants for Cannanore having been increased by nine, for the shelter of which funds have been allotted by Order of Government, No. 1,943, dated 20th July 1874.

2. Water for the elephants has hitherto been obtained from a well in the vicinity of the sheds, but owing to the supply therefrom during the dry months having been found barely sufficient for the existing number of public cattle, it became necessary to require the provision of an additional well, without which the increased number of elephants could not be kept at the station.

No. 541. ORDER THEREON, 25th September 1874, No. 2,723.

MILITARY WORKS, No. 15.

His Excellency the Governor in Council sanctions the estimate reduced to Rupees 660, for sinking a well near the elephant shed at Cannanore; but there are no funds at present available for

Proceedings of the Madras Government, Public Works Department,
25th September 1874.

the work. An allotment will, if practicable, be made later in the year in the event of the District Engineer not being in a position to provide for the work.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Malabar.

.. Officiating Controller of Public Works Accounts,
.. Military Department.

the work also incurred at
... ..
... ..
... ..
... ..
... ..

From District Engineer Malabar
No. 40 dated 18 May 1874.

Enclosing estimate for a well
at Cananore. No. 1360.

Measure. 445 10 10

The Chief Engineer considers
that the estimate might be
very considerably reduced.
The ^{ordinary} method of construction
should be more closely adhered to
& the use of Portland cement
avoided.

The nature of the ground in which
the well is to be sunk & the
nature of the steering found to suffice
in neighbouring wells should be
asked & stated.

A puddle casing may be laid
behind the steering for the first
10 ft. to keep out surface water.

The diameter of the proposed well
is considered excessive it should
be reduced & the well should

Imperial

General No. 9 of 1870-71.

Specification for sinking a well near the Elephant shed at Camaguey

The well to be sunk at the place selected in the Elephant lines

is the nature of the ground as far as can be ascertained? what sort of stratum has been in neighbouring wells?

It is expected from the nature of the ground that water will be reached about forty feet deep, but it will be necessary to sink deeper for a constant supply, therefore the well to be sunk 12 or 15 deeper. The well to be fourteen feet in diameter after stuning

40 feet = 18 poles } inside = 2' 4" +
+ again about 12 to 15 = 6 poles

Latite is very porous usually and will close up the stuning when

The first 10 feet of the well to be stuned with Latite in Portland Cement to keep out the surface drainage.

The bottom portion is about 12' or 15' to be laid dry in the most careful and approved manner except at every 4 1/2 feet counting from the bottom there to be 2 courses laid in Portland Cement if the nature of the ground requires it, these courses will have to be nearer together.

The Portland Cement need bring gauged with 2 sand.

The stuning is to be one stone of the usual size in thick Ruffs, i.e. 18" thick the stones being put to fit in the most careful way.

Should the shaft pass through bad ground or should sand & springs be met with the former is to have a stuning of Latite laid in Portland Cement and the latter the same only the ground behind the stuning ^{is to be} being carefully puddled, as each course is laid.

There is to be a parapet 3 feet high round the well the

At Camaguey

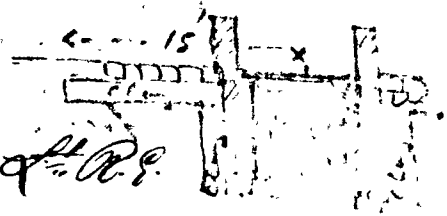
1871 725 - 1871 74
in 15. 1. 540.

Estimated for sinking a well near the Elephant shed at Camaguey
January 1871

well; also to be ^{paved} on the outside 4 feet with
a drain to carry off waste water.

This portion will be laid in Latent in Chuanam
the whole carefully pointed with Portland cement
As it is impossible to estimate for the quantity
of bad ground likely to be met with, 15 feet of masonry
in Portland cement is allowed for.

The clay part
may be expected
in a section of
15 ft. masonry will
be met with
as the ground is
so soft & liable to
settle in places.



Cannanore
30 April 1874

A. E. Dobson
Assistant Engineer
Malabar

W. Harrington
Dist. Eng. Malabar

Malabar Dist. Engineer's Office
Calicut
5 May 1874

In a letter from the
Dist. Engineer Malabar
to the Secretary to Govt.
P. W. Madras No. 40 of
15 May 1874.

G.O. No. 2723 of
25-9-74
P.M. 2981/34

Estimate of specifications
for sinking a well near
the Elephant shed at
Cannanore -
Amounting to Rs. 1360-0-0

Malabar Dist. Eng. Office
Calicut 18 May 1874

No. 40

From,
The District Engineer
Malabar

To,
The Secretary to Government, P. W.
Madras.

Sir,

Rs. 1360.

I have the honor to forward an
estimate for sinking a well near the Ele-
phant shed at Cannanore for sanction
and allotment of funds.

The estimate was called for by
the Local Military authorities and has
met with the approval of His Excellency
the Commander-in-chief.

I have the honor to be
Sir

Your most Obedt. servant

W. Harrington
District Engineer, Malabar

No. 103.

Malabar Dist. Engg. Office.
Calicut 13 August 1874

From

The District Engineer

Malabar

To

The Chief Engineer

Public Works Department

Madras

Sir

As directed in your Memo. No. 440 dated 18th June last, I have the honor to forward a Plan, Estimate and Specification for sinking a well near the Elephant Shed at Cannanore.

The Estimate forwarded with my No. 40 dated 18th May last amounted to Rs 1360, the present one to Rs 690, the reduction in cost being Rs 670.—

I have the honor to be
Sir

Your most obedt. servant

W. L. Harrington

District Engineer, Malabar

At 8 74 Malabar.
From J. P. S. 1874.
The District Engineer

To

Malabar

The Secretary to Govt.
S. P. W.

Madras.

Dated 13th
Recd 20th May 1874

No. 10.

Forward an Estimate for

sinking a well near the

Elephant shed at Cannanore

for sinking & allotment

of funds.

Q. No. 2723. 25-8-74

Copy to City Engineer

No 57008

Commenced
Sinking a Well near
the Elephant shed at
Mannar

Estimated quantity for
Sinking a Well near
the Elephant shed at
Mannar
No 57008
2923.25-8-76
Plan Pit up with
No 7938 of 76
25-10-76

Dated 13th
Received 17th August 1976
No 103.

To The Chief Engineer
P.W. Works
Madras.

For the Chief Engineer
The District Engineer
Madras.

Submitted for consideration

For the Chief Engineer

Sl. No. of work
Number
Length
Width
Area
Volume

Area/Length

By the District Engineer
for the Chief Engineer
for the Chief Engineer

10.5 x 3.41 x 75 x 68 =	1385 1/2	22	Cost of digging well	3	22
10.5 x 3.41 x 75 x 75 =	74	74	Cost of latrine in Channam	30	25
(20) x 7.8 x 6 - (2) x 7.8 x 4 x 7 =	117	117	Percept for the well		
	191	191	Raising round the well		
	425	425	Cost of latrine in Channam	8	3461
			Cost of painting with Bartha	3	12
			Baling with		40
			Charging and transport		50

Sanitary and Superintendence
Total 62426
\$436
35

Total of Estimate Rs 60000

For the Chief Engineer
District Engineer
Madras.

For the Chief Engineer
District Engineer
Madras.

For the Chief Engineer
District Engineer
Madras.

For the Chief Engineer
District Engineer
Madras.

1478 / 8 Gen 11

15
Specification for sinking a well 9 ft
in diameter near the Elephant shed at
Camden. Amount of Estimate 190 Rs.

The well to be sunk in the middle
of the hot weather when the water is at the
lowest in other wells.

It is expected from the formation of the ground that at the bottom of the year water will be reached about 40 feet; the well to be taken down 16 feet after reaching water, so that there may be always a good supply. The diameter of the well to be 9 feet.

The bottom ^{11/2 ft} of the well to be
laid dry & no channel to be made

The remaining portion to be laid in latite in Chanam provided no rock is met with, if rock should be met with no steaming will be required

The wall to be paved to keep out the
surface water and thus paving to have a
drain

Dear Mother from the
Anti-Slavery Bazaar
to the Anti-Slavery
Bazaar, August 15, 1851.

[Faint handwritten notes and signatures at the bottom of the page]

been found barely sufficient for the

G.O. No. 272392
In H. 57408.

6621

100-443886-100

The Assistant Engineer
Malabar District

2. Water for the Elephants has hitherto been obtained from a well in the vicinity of the sheds, but owing to the supply therefrom during the dry months having been found barely sufficient for the

W. L. Livingston
District Engineer, Malabar

Public Works Department
 Proceedings of the Chudras Government
 From the District Engineer
 Chalabao (P. B. C. 103 dated
 13th Aug 1874) &
 (H. E. No. 117 of 1st Sept/74
 2723

His Excellency the
 Governor in Council
 sanctions the estimate
~~reduced~~ to Rs 660
 for sinking as well
 near the Elephant
 Shed at Channanore!
 but there are no
 funds at present
 available for the work.
 An allotment will if
 practicable be made
 later in the year, in the
 event of the District
 Engineer

[Signature]

P. B. C. 103 dated
 13th Aug 1874
 H. E. No. 117 of 1st Sept/74

From
 The District Engineer
 Chalabao

To
 The Chief Engineer
 P. W. Department
 Madras

Dated 1st Sept 1874
 Road 4

Enclosed copy of the
 estimate of Rs 660
 for sinking as well
 near the Elephant
 Shed at Channanore!
 P. B. C. 103 dated
 13th Aug 1874
 H. E. No. 117 of 1st Sept/74

Erin

298

Am. B. Robinson & Co.
19th Nov '6

St Enghelachar ✓
Cante S. Co. Accts ✓
Truly: Departe^u ✓
S. Capins departs 30/9/74.

10 Plant up with C. 257338.

876-25-10-26

540-541.

Leic 10/9/24 Ret 10/

2981
5139
5561 ✓

Govt. of 1874 Madras.

PUBLIC WORKS.

To

The Dist. Ingr.
Malabar

Dated

Recd.

Encl. 1

G. O., 25 Sept 1874, No. 2723

Nos. 560-561. 19/9

Wall.

The estimate reduced to Rs. 660 for sinking a well near the Elephant Shed at Cannanore in the Malabar District sanctioned; with remarks regarding the provision of funds for the work - an allotment, if practicable to be made later in the year in the event of the P. Ingr. not being in a position to provide for the work -