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MADRAS RECORD OFFICE

Government of Madras

Public works

DEPARTMENT

G.O. No.	2424	Press
B.P. No.		Mis.
42-43		
Dated	3-10-	1951

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
3rd October 1873.*

No. 42. 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., Chief Engineer, Public Works Department, dated Chepauk, 15th September 1873, No. 1,112 :—

With reference to your memorandum of the 31st July, I have the honour to forward a revised estimate of Rupees 740 for constructing two wells in the lines of the 12th Regiment Native Infantry

1 Estimate.
1 Specification.

at Vizianagram. It will be seen from the specification that the English method of well sinking is to be adopted. The quantity of excavation being very much reduced the estimate is much less than the one first prepared. It remains, however, to be seen whether the work will be done as cheaply as now estimated. I have pointed out to the District Engineer that in a considerable portion of the work the bricks may probably be laid dry and not in chunam.

2. There is no necessity for adopting this method at Bangalore. The soil there can in many places be dug 50 feet deep with perpendicular sides. The cheapest method of constructing wells there is to dig out the soil to the required depth and build up the stone lining from the bottom. There is very little superfluous excavation.

No. 43. ORDER THEREON, 3rd October 1873, No. 2,424.

MILITARY WORKS, No. 4.

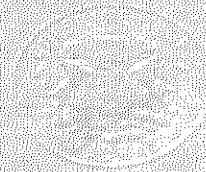
The sum of Rupees 700 is sanctioned for the two wells at Vizianagram, the construction of which was approved in G. O., No. 311, of 28th January, Military Department. But the Inspecting Engineer for Buildings would have done well to have caused such further reduction of the estimate as his instructions to dispense with the use of chunam and concrete backing in much of the brickwork were calculated to ensure. Funds are allotted from the Reserve under Military, and the District Engineer will report specially on the work which will apparently be a novelty in the district.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Inspecting Engineer for Buildings.
,, District Engineer, Vizagapatam.
,, Officiating Controller of Public Works Accounts.
,, Military Department.

Lrd. S. T. Austin.
Spare Copies.



N^o 1112

Office of the Inspecting Engineer
for Civil & Military Buildings
Chennai 13th September 1870

From

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

To

Colonel G. W. Walker R.E.
Chief Engineer
D. P. W.

Sir

Enclosures 2

1 Estimate

1 Specification

With reference to your Memo
of the 31st July I have the honor to
forward a revised estimate of Rs.
410 for constructing two wells in
the Lines of the 12th Regiment
Native Infantry at Vizianagaram.
It will be seen from the Specifi-
cation that the English method of
well sinking is to be adopted. The
quantity of excavation being very
much reduced, the estimate is much
less than the one first prepared.

H

It remains however to be seen
whether the work will be done as
cheaply as now estimated. I have
pointed out to the District Engineer
that in a considerable portion of
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be laid dry and not in chumans.

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soil there can, in many places, be
dug fifty feet deep with perpendi-
cular sides. The cheapest method of
constructing wells there is to dig out the
soil to the required depth and build
up the stone lining from the bottom. There
is very little superfluous excavation.

I have the honor to be
Sir

Yours most obedient Servant

E A Mord ¹⁰ Colle RB

Inspecting Engineer for
Civil & Public Buildings

Specification to accompany a Revised Estimate
of the cost of sinking two wells in the Lines of
the 12th Regiment N. I. Virianagram.

The work for
well of 6 feet
in diameter

The excavation to be eight feet in diameter,
and first carried down to a depth of 6 feet
when the steining will be commenced.

The brickwork will be built up two feet
all round at a time, filled in behind with
concrete well rammed, course by course, and
allowed to set.

After the six feet of brick and concrete
steining has well set, a second excavation of
the same diameter as the former one, eight feet,
and four feet deep will be made below it,
and the steining added below that already
executed.

In this manner the work will be carried
down by depths of four feet at a time as the
water level falls during the dry season, until
the greatest depth has been attained, probably
about the end of the month of May.

The earth will be raised by a windlass
and removed to some convenient spots selected
for it.

Should

17th 1873 Report
to the Chief Engineer
No. 5083

The Chief Engineer
for the Lines.

To
The Chief Engineer
P. M. R. 10
at 11/12

Dated 15th 1873
Sept 15th 1873
Recd. 16th 1873

Recd. 2nd
One Estimate
I have the honor to
acknowledge the receipt of your
estimate for the construction of
wells in the line of the 12th Regt
at Virianagram. I am
informed of the cheap
and most efficient method of well
sinking at Bangalore.
At 2424-5 Oct 1/73

At 1/12

Recd. 16th 1873

The Chief Engineer

Should a stratum of loose soil be met with, the steining will be suspended from the top, until firm soil is again met with.

To be of the best brick in Chunnam 9 inches thick, filled in behind with concrete. The Chunnam used in the brickwork to be one part of lime to one of sand. The concrete work to be composed of one part broken brick two parts broken stone, two parts coarse sand, and one part of kunker lime well rammed.

To be of dressed stone laid in Chunnam, Parapet four feet in height from the level of the surface of the ground, and 9 inches thick.

There will be a countersloping annular pavement round the well, four feet wide, and one foot above the ground at its inner edge and six inches at the outer edge draining into a cut stone V shaped drain all round; the drainage water being carried off to a distance of 30 feet in a similar cut stone V shaped drain. The stone work of the annular pavement to be 3 to 4 inches thick, and laid on six inches of concrete well rammed.

The interior diameter of the well, when complete, will be six feet. Interior diameter of the well

District Engineer
Office of Affairs
8th September 1913

J. Beatty Major R.E.
District Engineer Vizagapatam

46 m. 2424 - 3000 ft

C. W. 5083 ft

Specification to accompany
a Revised Estimate for
drinking two wells in the
lens of the 12th Regt. 500
at Blairmont.

Revised Estimate of the probable cost of constructing the Wells in the Line of the 1st Regiment of Native Infantry at Baramangalam.

Number	Length	Breadth	Depth	Squares Feet	Cubical Feet	Description of Work	Rate	Amount	Date
21 1/4	9	4			63 3/4 or 2 13/36	Expt. of cut stone parapet above surface of ground	15	35 6 8	
44	4		1 7/6		1 7/6	Expt. of cut stone sloping annular pavement	11	19 5 9	
44	30	13			30	Expt. of V shaped cut stone surface drain	6	3 12	
44	6	12			132 or 4 8/9	Expt. of concrete work under the pavement	1 12	2 8 10	

Bentungensis and superintendence ~~2~~ 42 8 5

Total Surfaces for one Well 350 . . .
 10 20 for two 10 700

Abstract Engineer's Office
 Mullano 6 1/2 September 1893

A. Beatty Major R.E.
 Abstract Engineer of
 Baramangalam.

Alfred Colonel R.E.
 Inspecting Engineer for
 Road & City Buildings

Revised Estimate of the probable cost of constructing above Wells in the Service of the 10th Regiment of Native Infantry at Dinanagarh.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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N. 2424 Pub. Works Dept.
 Proceedings of the Madras Government
 Read the following
 From the Inspecting Engrs. for Rygs. (H. E. No. 1112 of 15th Sept 1873)

Chief Engr's Memo
 ...
 ...
 ...

The sum of Rs 400
 is sanctioned for the
 two wells at Vizian-
 nagram the con-
 struction of which
 was approved in
 G.O. No. 311 of 28th Janu-
 ary, Military Department.
 But the Inspecting
 Engineer for Buildings
 would have done well
 to have caused such

25/9

— Legationnaire —

Enclosure in a letter 11/11/73
 of 15th September 1873

G.O. No. 2424-10 dated 1/10/73
 Revised estimate for
 constructing two wells
 in the lines of the 12th
 Regiment at V. S. at
 Vizianagaram.

P.N. 5083/73

G.O. 2424-3-10-73

Memorandum to the Secretary

further reduction of
the Estimate as his
instructions to dis-
-pense with the use
of Chuanam and
Concrete having in
much of the brickwork
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District.

Lynn

N^o 42-63

B. 2618. 173.

46
Co. S. E. for Rego ✓
" D. E. Engineer ✓
" Conts ✓
" Indly. Dept ✓

S.C. dispd 9/10/73

Op. 5083

Govt. of 1873 Madrid.
PUBLIC WORKS.

The Inspecting. Eng.
for Buildings

Extra

Recd.

Encl. 2

G. O. 3rd Dec 1873. No. 2424.

No. 42948

Mills for the A. I. Lines
at Vigianagram. Sanc.
taining a sum of Rs. 700
for two mills for the
A. I. Lines & allotting
funds for the work
and requiring a special
report on the completion
of the mills.