

(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.	2637	Press	<i>Original</i>
B.P. No.		Mis.	
Dated	16 - 9 - 1874	195 -	

Not to be folded or roughly handled

No. 340. Read the following letter from Captain J. W. HINDLE, Officiating District Engineer, Vizagapatam, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Waltair, 30th July 1874, No. 822:—

I HAVE the honor to submit herewith, for the sanction of Government, a plan and estimate, duly approved of by His Excellency the Commander-in-Chief, for the work noted in the margin, and to request you will be good enough to have the necessary allotment placed at my disposal at your early convenience.

2. The works in question have been proposed by the Deputy Assistant Adjutant General for Musketry.

No. 341. ORDER THEREON, 16th September 1874, No. 2,637.

MILITARY WORKS, No. 10.

A sum of Rupees 1,000 is sanctioned for the improvement of the Rifle Range lately laid out at Vizagapatam, and funds

provided from the Reserve under "Military" for the immediate execution of the work.

2. But it will be remitted for consideration of the Military Department whether the charge should not be transferred to the Military Budget with reference to Proceedings of the Government of India, No. 840-52 B.M., of 26th May 1874; Rupees 727 of the original sanction, and Rupees 259 of the present, representing the cost of the ground.

3. The District Engineer of Vizagapatam will in future lay such papers before Government with more detailed information as to the necessity of the works for which estimates are submitted; want of which hinders correct decisions being formed, and causes delay and trouble. He will report who is answerable for having placed the Markers' Butts 7 feet too near the targets; what steps are to be taken to remedy the defect, and at what cost; there is no entry in the specification or estimate throwing any light on these points noticed in the report of the Inspector of Musketry. He will also explain how the land taken up is valued in the first estimate at Rupees 100 per acre, and in the second at Rupees 250.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Vizagapatam.
" Military Department.
" Officiating Controller of Public Works Accounts.

Encl. T. O'Connor.
Spare Copies

Specification to, accompany plan, and
Estimate for marking Centre road way &
Plat forms, at the Vizagapatam Rifle Range.

Amount of Estimate Rs. 1000.

Earth work.

The Centre road way & plat forms are
to be raised at the places marked on the
plan, and they are to be 12 ft broad, at the
formation level, with side slopes of 2 to 1.

The side slopes are to be turfed with the best
sods procurable in the immediate neighbour-
hood.

Gravelling

The tops of all plat forms and the
centre road way, are to be gravelled 12 feet
broad & 6 inches deep.

Side Channels

Side Channels are to be cut along
the sides of the centre road way & plat
forms, they are to be 3 feet broad and 3 feet
deep throughout.

Cut stone slabs
under Targets

Cut stone slabs 6 ft long 1 foot broad
and 6 inches thick are to be laid under
neath the Targets on a bed of Concrete
1 foot thick, projecting 6 inches on either
side of the cut stone slabs.

The foundations, flooring and side walls, are to be of rough stones in Chumam Rubble masonry

All the exposed surfaces of the tunnels are to be plastered with 3 Coats of Chumam. Plastering

The first to be composed of one part of lime to one and a half of river sand. The second of one part of lime to one of sand, and afterwards brushed over with pure lime ground to a very fine paste.

The directions given in Foord's notes page 42 for this description of work to be strictly attended to.

The Vents of the Tunnel ought to be covered with cut stone slabs 3 feet long and laid over with concrete. Covering Slabs

Executive Engineer's Office
Vixianagram
9th June 1874.

M. M. M. M.
Executive Engineer
Vixianagram

M. M. M.

W. H. K. K. K.
Offg. District Engineer
Vixianagram

127	Cyds. of concrete work under cut stone work	1 8 .	Apd	1 8 10
				514 14 11
	Contingencies & Superintendence	7 8 .	Pct.	35 1 1
				Total Rupees 550

Constructing a Tunnel of one vent of 2 ft. span proposed to be built at 250 & 500 yards from Target as per plan Fig. I.

18 25	Cyds. of Rubble masonry in Chumam	1 12 .	Apd	31 14 5
108	Sqrs. of Plastering with 3 coats of Chumam	3 5 .	Sqrs	6 13 2
206				
	Ryds. of Covering Stones	1 12 .	Ryds	8 12 .
	Excavating foundations &c.	" " "	"	1 " "
	Contingencies and Superintendence	7 8 .	Pct.	48 7 7
				3 8 5
	Total for One Tunnel			52 . .

Total for Two Tunnels Rupees 104

C. O. 654

Mr 5/17/74
 229. 276 1/2
 In 15 No 340
 Specification to occur
 from plan & estimate
 for quarrying Centre
 Road way & flat forms
 at the Viragapatam
 Rifle Range
 Estimate No 1000-4-
 In 1000-3

Covered with cut stone slabs 3 feet long and 18 inches wide laid over with concrete.

Executive Engineer's Office
 Vixianagram
 9th June 1874.
 M. M. M. M.
 Executive Engineer
 Vixianagram

W. H. K. K.
 Captain
 Offg. District Engineer
 Viragapatam

Estimate No 14 of 1874-75.

Abstract Estimate of the probable cost of making Centre Road
 and Flat Forms &c at the Viragapatam Rifle Range proposed
 by the Deputy Assistant Adjutant General for musketry.
 Prepared at the request of the Assistant Adjutant General for
 Musketry under his docket No 437 dated 1st December 1873:-

Number or quantity	Description of work	Rate	Amount	Total
2329 7/9	Cyds. of Earth work for Flat forms &c Centre Road	1 . qd	145 9 9	
752	Cyds. of Graveling the road way and Flat forms	6 . Rs.	282 . .	
2048	Sq. yds. of Surfing the sides	8 S. yds.	85 5 4	
252	Sq. of Cutstone work	12 . . Sqrs.	1 7 .	
127	Cyds. of concrete work under cutstone work	18 . qd	1 8 10	
			514 14 11	
	Contingencies & Superintendence	7 8 . Rs.	35 1 1	
			Total Rupees	550

Constructing a Tunnel of one vent
 of 2 ft. span proposed to be built at
 250 & 500 yards from Target as per plan Fig I:-

18 25 108	Cyds. of Rubble masonry in chunam	12 . qd.	31 14 5	
206	Sqrs. of Plastering with 3 coats of chunam	3 5 . Sqrs.	6 13 2	
	Pyds. of Covering Stones	1 12 . Pyds.	8 12 .	
	Excavating foundations &c	" " "	1 " "	
	Contingencies and Superintendence	7 8 . Rs.	48 7 7	
			3 8 5	
	Total for one Tunnel		52 . .	
	Total for two Tunnels		Rupees 104	
			C. O.	654

B. O. 654

Constructing a Tunnel of 2 vents
of 2 ft. span at 100 yards from
Target as per plan II:-

27 7/8 Cords of Rubble masonry in Chunan	1 12. Cyl.	48 99
3.42 Cords of Plastering with 3 coats of Chunan	3 5. 8 1/2	11 53
10 Ryds of covering stones	1 12. Ryd.	17 8.
Excavating Foundations &c		3 ..

807.

Contingencies & Superintendence 7 8. Pct. 69.

Total Rupees 87

1.033 Acres compensation for additional
Land required on both sides as shown
in the plan:- 250 .. Ser 259 .. 259

Grand Total Rupees 1000

Executive Engineer's Office
Viranagram 9th June 1874

(signed) K. F. Nordmann
Executive Engineer

This is to certify that the undersigned considers that this estimate
provides for every thing necessary and that no supplementary works
will afterwards be required.

(signed) K. F. Nordmann
Executive Engineer

Head Quarters Northwick
Wattain 4th July 1874

M. W. Brighel M. W.indle Captain
Commanding Northwick Offg. District Engineer
Viragapatam

making a centre Road
forms 800 at the Virago
Rifle Range. Rupees

and to request you will be good enough to have
the necessary allotment placed at my disposal
at your early convenience.

The works in question have been pro-
posed by the Deputy Assistant Adjutant Gene-
ral for Musketry.

I have the honor to be
Sir

Your most Obedt. Servt.

M. W.indle Captain
Offg. District Engineer
Viragapatam

Comp.
S. F.

NO. 822

Viragapatam District Engineer's Office
Waltair 30th July 1874

From

THE DISTRICT ENGINEER,
VIZAGAPATAM.

To

THE Secretary to Government P.W.D.
Madras

SIR,

I have the honor to submit herewith for the sanction of Government a Plan & Estimate, duly approved of by His Excellency the Command-in-Chief, for the work noted in the margin, and to request you will be good enough to have the necessary allotment placed at my disposal at your early convenience.

The works in question have been proposed by the Deputy Assistant Adjutant General for Musketry.

I have the honor to be
Sir

Your most Obedt. Servt.

J. W. Kiddle Captain
Offg. District Engineer
Viragapatam

Making a centre Road & Plat-
forms &c. at the Viragapatam
Rifle Range. Rupees 1000.

Comp.
P. S.

Rs 5017/74

Abstract Estimate of the pro-
posed work of making centre
Road and Plat. forms
at the Viragapatam Rifle
Range proposed by the De-
puty Assistant Adjutant
General for Musketry

Estimate Rs. 1000

10 & 27/16 Sept 1874
In Rs. 1000 340

In Rs. 1000 3

(signed) H. F. Nordmann
Executive Engineer

Executive Engineer's Office
Virianagram 9th June 1874

This is to certify that the undersigned considers that this estimate provides for every thing necessary and that no supplementary works will afterwards be required.

(signed) H. F. Nordmann
Executive Engineer

Head Quarters Northwick
Waltair 4th July 1874

W. B. Brierley M. Kiddle Captain
Commanding Northwick Offg. District Engineer
Viragapatam

13 Extract from a letter from the
Adjutant General No 1893 dated Fort
Saint George 11th December 1873, to the Quarter
Master General, Madras Army.

"I have the honor, by order of the
"Commander in Chief, to subjoin for your
"information, the following Extracts from
"Reports of the Inspectors of Musketry 1st
"and 2^d District for November 1873."

* * * * *

7th Regt. N. I. "The Range at Waltair has been
"completed since my last visit, and is
"in use by the Regiment. There are how-
"ever several additional works still most
"urgently required, viz I. The markers
"Butts have been built seven feet too
"near the Targets. They should be altered
"as at present the markers are being struck
"with lead splinters, even the wire screens
"have been lately put up."

II. "Owing to the range being almost
"a swamp up to the 500 yard peg, a road-
"way raised about 18 inches should be
"constructed from the targets to that
"peg."

III. "Platforms 18 inches in height
"are also required on some account at
"each 50 yards from 50 up to 300 yards"

IV

For 1874. Held
from 1st to 15th July

The Offg. District Engineer

Visakhapatnam

To No 5017

The Secretary to Govt. of
Madras

Dated 30th July 1874
Secy. M. A. J.

No 822

Submitting for sanction

Plan and Estimate for making

a centre Road and Platform

at the Visakhapatnam

Rifle Range.

No. 2639. 16-8-74

No 348

Copy to M. A. J.

Enclosure

IV. Clear forms varying from about
"3 to 4 feet in height are also required
"at from 400 to 550 yards, so as to enable
"the firer to see the bottom of the target
"when kneeling or lying down."

V. The Ricochet Butts are not
"visible from the firing points, beyond
"300 yards, owing to gardens projecting
"into the range itself. steps should be
"taken to remedy this".

* * * *

(True Extract)

Brig. Genl.

Quarter Master General C.

G. O. W. D. 716th
Sept 7/74 N. 2637

15
Letter from W. J. M. H. Nagapataam N. 822 7
30th July 1874.

For orders

This must go forward
C. L. J. M. H. Nagapataam
hesitate at incurring
this large additional
expenditure
1870

Submitted for orders
whether this additional ex-
pense is to be incurred, the
Range having been constructed
only last year at a cost of
Rs. 2700. If such high
finish is required to this
Range it must be equally
necessary to all Ranges, and
a detailed Standard Plan
which shows the necessity
should be laid down in
accordance.

Suprahar Mol. R. J.
Secretary to Govt.
P. H. D.

P. O. D. 1850

Proceedings of the Madras Govt.
Read the following

From the Dt. Engr. Vizagapatam (H. E. No. 8227 30 July 1850)

2637

A sum of Rs 1000
is sanctioned for the
improvement of the
Rifle Range lately laid
out at Vizagapatam,
and funds provided
from the Reserve
under Military for the
immediate execution
of the work.

But it will be
submitted for consideration

M. S. D.

AD

of the Military Department
whether the charge should
not be transferred
to the Military Budget
with reference to Pro-
ceedings of the Govt.
of India Session of
28th May 1874; Ro 24
of the original sanction,
and Ro 259 of the present,
representing the cost
of the ground.

The District Engineer
of Vizagapatnam will
in future lay such
papers before Govt.
with more detailed
information as to the
necessity of the work
for which estimates

be

are

19
are submitted; want
of which hinders correct
decisions being formed,
and causes delay and
trouble. He will report
who is answerable
for having placed
the boat No 100 too
near the shore; what steps
are taken to remedy
the defect, and at what
cost. He will also
specify the entry in the
specification or estimate
showing any light
on these points re-
flected in the Report
of the Inspector of
Munitions. He will
also explain how the

and taken up is now
laid in the 1st estimate
at Rs. 100 per acre, and
in the 2nd at Rs. 200.

C.M.W.

By Mr. ...

10/11/74

Sl. 1st
12/11/74

To the D. C. Vizagapatam
" Military Dept ✓
" Controller ✓
S. Copies despatched 23/9/74

340-341

Rd 10/9/74

5011

Govt. of Madras.
PUBLIC WORKS.


~~The Madras
Public Works
Department~~

1001
1002
1004
G. O. 16 Sept. 2637

Nos. 360-361.

Rifle Range
at Vizagapatam

A sum of Rs. 1000
for the improvement
of the Rifle Range
connections & with re
marks & funds pro
vided from the Reserve
under Military for the
immediate execution
of the work.