

(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.	1147	(w)	Press
B.P. No.	.		Mis.
Dated	8.5		1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
8th May 1876.*

Read the following papers —

No 131. From the District Engineer, Vizagapatam, dated 5th October 1875,
No, 1,077.

No. 131-A. From the same officer, dated 9th December 1875, No. 1,476.

No 131-B. From the same officer, dated 25th March 1876, No 2,133.

No 131-C From K F NORDMANN, Esq, Officiating District Engineer, Vizagapa-
tam, to Colonel W. T. F. FAREWELL, Officiating Under Secretary to
Government, Public Works Department, dated Camp at Vizianagram,
15th April 1876, No 117.

In continuation of my letter, No. 2,133, dated 25th ultimo, I have the honor to

- 1 Plan
- 1 Estimate
- 1 Specification

* Amounting to Rupees 1,530.

forward herewith a fresh plan and esti-
mate* for the additions proposed to the
Armourers' shops at Vizianagram and
Vizagapatam, prepared in accordance with

your instructions and with the latest standard plan received with G.O, No 2,520,
dated 4th September 1875, and countersigned by the Deputy Assistant Adjutant-
General for Musketry.

No. 132. ORDER THEREON, 8th May 1876, No. 1,147.

MILITARY WORKS No. 1

(a) *Heads of Service* — Imperial
Fund — Ordinary
Class — Original Works
Main-head — Military
Sub head — Accommodation for Native Infantry
Name of Work — Browning room, forge, &c, at the
Armourers' shops at Vizagapatam and Vizianagram
Amount — Rupees 765 each
To be carried out by the Public Works Department

HIS GRACE the Governor in Council
sanctions the estimate of Rupees 1,530
for constructing a browning room, fitting
up a forge, scalding trough, drying
room, arm racks, and building a chimney
in the Armourers' shops at Vizagapatam
and Vizianagram

2. This sanction has been registered as Imperial No 19 W. of 1876-77.

(True Extract)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

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

Exd E C Shunker
Spare Copies

IMPERIAL.

Sub-Head *New Military*

Work. *Certain improve.*

*ments to the Armoury
shops at Tinagapattur
& Tirunelveli*

Amount of Estimate, Rs. *890-0-0.*

District *Tinagapattur*

Range

REMARKS on Plan and Estimate, &c,
submitted with District Engineer's letter
No *1077* dated *5th October 1875*

Current No *6531*

Despatched *30th December* 1875.

Returned

187

PN 90-8 May 1876 No 1147

The wall-those were cut
in the order of placed the
the West side of the
South of the existing building
as the dimensions of the
room in that position and
the 18 ft in length with
a 20 and would agree with
the standard design; the
width of the room would
also suit the measurement
from 9 to 12 ft and a
wall shown clearing the
space from the drying
With these measurements and
the due attention to the
already exists the plan
would be in accordance
with the standard design
on the wall of the
No 2520.

The dimensions of drying
room given in the plan sub-
mitted is $20 \pm \times 9$. That of the
standard is 22×5 ; showing
an excess of $12 \pm$ ft. In the
area in the submitted plan -
The large room is omitted
in which plan; the dimensions
of this room in standard design

June

Net first netted

12 x 11.00 - In birds

have a large and simple

are shown in flying form -

two windows and are

shown in the flying

room of the plane submitted,

but the standard design

for only one door corner,

indicating with the large leaves

and in the large room, which

the sketch before is not shown

in the plane submitted, there

are two doors one under and

another leading into the

large room 18 x 20

There are also differences

in the position of the large

chimney and house which

need connecting according

to standard design -

Disgratified Imperial Budget.

New York Library

forwarded by the District Engineer with letter No. 1077 dated 5th October 1875.

Remarks	Replies by District Engineer	Final Decision
The plan submitted by the District Engineer showing the relocation required to be made to the monument at Teicungham and Triangulation station in the following respects from the Standard design mentioned in G.O. dated 15th March 1892		

of the Testimony, & leave denials
in the Estimate under Examination
cannot be checked. The
only safe remedy from
the above mentioned defect
here, there for the Report
should be written
whole Specification on Standard
Cases.

Washburne Charles
Wm. Washburne - First Engineer and
Assistant Secretary to Government. 1860

15/1/12

DEPARTMENT

NEW WORK.

Revised Abstract Estimate No. 117

TALUK, Uraagapattam and Uraanagaram

DISTRICT Uraagapattam

WORK. Constructing a Browning room, filling up a Forge, Sealding, through, Drying room, and Ann racks, and erecting a Chimney in the Prisoners Shop at Uraagapattam and Uraanagaram.

Quantity or Number	Description of Work	Rate	Per Item	Amount.	Total
8 1/2	Cyds of Concrete work	12	Cyd	12 12	✓
82 3/5	Do of Rough stone in chunam	12	Do	144 8 9	✓
2 2/3	Do of Brick work in chunam to chimney	2 14	Do	7 10 8	✓
1 1/7	Do of Flat arch work Brick in chunam	4 12	Cyd	5 6 10	✓
18.56	Sqrs of Plastering with 2 coats of chunam and white washing	2 6	Sq	44 13	✓
1.82 7/16	Sqrs of Cut stone flooring with rectangular cut stone slabs in parallel courses & painted with chunam	11	Do	20 13	✓
4.65	Do of Roofing with saulwood rafters, piers, nails, flat and pantiels & chunam borders & complete	25	Do	116 4	✓
14.22	Cft of Saulwood wrought and put up	2 8	Cft	35 39	✓
Carried over				386 56	✓

2		B. O.		386 56 1	
Pairs of Teakwood batten doors with shutters frames and iron fixtures &c Complete inside dimensions (3 1/2 x 6 1/2)		20	each	40	✓
Do of Iron barred windows with glazed shutters teak wood frames iron fixtures &c complete inside dimension (2 1/2 x 4 1/2)		15	do	15	✓
1 Teak wood Truss with principal rafters struts iron king rod in the centre &c complete		40	do	40	✓
Excavating foundations & filling in basement				5	✓
Contingencies & Superintendence 7 8. cent				486 56	✓
Total Rupees				34 10 6	✓
11				521	✓
1 1/8 Cys of Brick in chunam		2	14. Cyl	3	39 ✓
1 1/6 Do of Circular Arch work in chunam		4	12. do	5	88 ✓
1.03 Sgrs of Plastering with 2 coats of chunam & white washed		2	6. Sgr	2	71 ✓
7 1/4 Maunds of sheet iron Cupola		6	Maund	43	8 ✓
Tarring & fixing the above		5		5	✓
Contingencies & Superintendence 7 8. cent				59 11 6	✓
Total Rupees				11 4 6	✓
				64	✓

III		585		7K	
1/15 Cys of Brick in chunam		2	14. Cyl	8	13 ✓
Fixing trough and carriage from Madras				15	✓
50 Sgrs of Plastering with 2 coats of chunam and white washed on the sides &c		2	6. Sgr	1	3 ✓
Iron door with hold fasts &c				8	✓
Iron chimney to trough				60	✓
Contingencies & Superintendence 7 8. cent				93 0 0	✓
Total Rupees				6	✓
IV				99	✓
11.82 Cft of Teak wood wrought and put up for arm Racks		3	8. cft	41	5 11 ✓
Fixing arm Racks				4	✓
Freight and carriage for one pair of Bellows with teak wood stand from Madras				10	✓
1 Anvil of 80 lbs in weight				12	✓
1 Standing vice of 40 lbs in weight				8	✓
Contingencies & Superintendence 7 8. cent				75 5 11	✓
Total Rupees				5 10 1	✓
Total for one Building				81	✓
Total for two Buildings				765	✓
Total for two Buildings				1530	✓
District Engineers Office Camp at Jagapatam 16th March 1876		Minimum Offg District Engineer Jagapatam			

3rd March 1876.

Luopik

Danger! Mushrooms
2000 ft. (Diadema)

P. 2879/76

Amount of Estimate \$1,530

e postulate Columbia to the pro-
 -bable cost of constructing a
 Dismouring, some fifteen up
 a large, scaling, through,
 Dipping room, from back to
 and erecting a chimney
 in the Farmers Shop at
 Westgate Farm & Birmingham.

Specification, to accompany Plan and Estimate.
of the probable cost of constructing a Browning
room, fitting up a Forge, Scalding Trough,
Drying Room, Arm racks, and erecting
a Chimney in the Armourers' Shops at
Vizagapatam and Vizianagram.

Amount of Estimate Rs. 1530

Concrete work

There will be concrete, one foot deep which will project 6" on either side of the foundations of the walls of the additional rooms, and also 6" thick, to top of Chimney for coping, as shewn on the Plan.

Roughstone in
Shunam—

The foundations, basements, and walls above, of the additional rooms are to be built of roughstone in Chinam.

Arch work

The arches over doors and windows, and a quadrant portion of a Circular arch, springing from the top of the Forge to meet the Chimney in the wall; are to be built of well burnt bricks in chunam $1\frac{1}{2}$ & $1\frac{1}{8}$ feet thick throughout to flat and circular arch works respectively.

Showering

The new rooms are to be floored with rectangular cut stone slabs in parallel courses and pointed with fine Chinam. The

The new roof will be composed of seasoned Roosting
rafters, reapers, nails, flat and fan tiles, Chunan
borders &c Complete

The wood made use of for the new Woodwork
rooms shall be of the best seasoned sail wood
free from all cracks and flaws. The beam
principal rafters, & struts are to be of best teak
wood

There will be two pairs of teak wood
batten doors with frames, iron fixtures &c complete,
and an iron barred window with glazed
shutters, with teak wood frames iron fixtures
&c complete, to the drawing room.

The forge will be $3-6 \times 3-5\frac{1}{2}$ and $2-6$ Forge
high, built of brick in chunan.

The Cupola for the forge will be Cupola
of $\frac{1}{16}$ inch iron, tarred to prevent its rusting,
and fixed over the Forge $5-7\frac{1}{2}$ inches above
the floor level.

The Chimney will be $1\frac{1}{2} \times \frac{2}{3}$ inside Chimney
and built into the wall with brick in chunan,
from the meeting of the circular arch
which springs from the top of Forge, to a
height of 16 feet including coping.

The upper shelf will be fixed in Iron Rack
the wall 3 feet from the floor and will
simply

simply have notches for the barrels to rest in,
the lower shelf will not be fixed but will
be fitted in such a manner that it will
stand on the floor of the shop, one foot
from the wall. This shelf will simply
have holes for the tangs of the rifles to
rest in.

Iron Trough & Iron
Chimney

The scalding Trough will be placed
on the side of the cross wall and will be
suspended between walls of brick in chunan.
It will have an iron Chimney (as shown
on the Plan) leading from thence through
the middle of drying room to the outside.
The estimate provides for the carriage of
an iron Trough and bellows, to be brought
from Madras, and for putting these
articles up.

Iron Chowkats

The iron Chowkats for furnace door,
to be secured by iron hold fasts into the
brick work on both sides, and not on one
side only, and to be also secured into the
brick footing below.

District Engineer's Office
Camp Serpanagram
16th March 1876

M. M. M. M. M.
Off. Dist. Engineer, Serpanagram

Encl. 1st

D.O. for Musketry
2nd (Field) (Madras)

Secunderabad

30th March 1876

P. N. 2849
2/11

Estimate No 1530

Specification to accompany
Plan and Estimate of the
probable cost of constructing
a Breaching Room, fitting up
a Store, Kitchen, Messing,
Drying Room, Arm Rack
and mounting a Churnery in
the Armoury Shop at
Vizianagaram and Vizianagaram

No 117

13 K
District Engineer's Office
Camp Vizianagaram 15th April 1876

From

The Officiating District Engineer
Vizianagaram

To

The Under Secretary to Government P.W.D.
Madras

Sir,

In continuation of my letter No 2133
dated 25th ultimo, I have the honor to forward
herewith a fresh Plan and Estimate for the addi-
tions proposed to the Armourers' Shops at Viziana-
gram and Vizianagaram, prepared in accordance
with your instructions and with the latest
Standard Plan received with G.O. No 2520
dated 4th September 1875, and countersigned
by the Deputy Assistant Adjutant General
for Musketry.

Amounting to
Rs 1530-00

I have the honor to be
Sir

Your most Obedt. Servt.

W. Montgomerie
Offg. District Engineer, Vizianagaram

Compd

N^o 1476

District Engineer's Office
Camp Viranagram 9th December 1875

From

The Offg. District Engineer
Viragapatam

To

The Secretary to Government P.W.D.
Madras

Sir,

I have the honor to request you will be good enough to obtain the early sanction of Government to the Revised Estimate, for making certain improvements to the Armourers Shops at Viranagram and Viragapatam, submitted with this office, letter N^o 1077 of 5th October 1875; as otherwise the sum of Rs 500, already allotted for the work in G.O. N^o 1904 dated 5th July 1875, cannot be utilised in this official Year.

I have the honor to be,

Yours most Obedt Servant,

M. M. M. M.
Offg. District Engineer, Viragapatam

Camp Engg.

S. W. 1876 Department
28-2879

The Offg. District Engineer
Viragapatam

The Under Secretary to Govt P.W.D.
Madras

Dated 15th Dec 1875
Recd 15th Dec 1875

N^o 117

Armourers Shops at
Viranagram & Viragapatam
for forwarding, repair
plan and estimate for
additions proposed to the

Cir 8.5.76 M. M. 8/17/76
Despatch 1-5-76. 1.5.76

No 42

Memo

The plan and estimate for the addition proposed to be made to the Ammured's Shop at Vizianagaram and in Vizagapatam are returned to the District Engineer Vizagapatam who will be good enough to correct the plan and question in accordance with the remarks enclosed and cause the papers of his District to be sent to this Office as early as practicable.

By Order /

Fort. George, 11th Nov 1876. Sd/- W. Farewell Colonel
Offg Dy Chief Engineer and
Secretary to Government
District Engineer
Vizagapatam

For 1875-1876

No 5013

Chas. J. P. Robert Engineer

Vizagapatam

Secretary to Govt PWD
Madras

Dated 9th Dec 1875

Chas. J. P. Robert

Requests sanction to the revised estimate for making certain improvements to the Ammured's shop at Vizianagaram and Vizagapatam.

No 1316-

No II — PARTICULARS FROM
ESTIMATES

Main Budget Head to which chargeable

Imperial

Title and purpose of the work as given by
District Engineer

*Improvements to the Armourers
Shops at Vijayanagara & Vijayapata*

Original sanction for the preparation of the
detailed estimate

(Date and number in both sanctioning and Public Works
Department)

Amount of original detailed estimate

Rs 500

Number and date of sanction and endorse-
ment in Public Works Department

by O.S. 935 of 8th April/75

Amount of revised estimate *890*

Do of original do ... *500*

Excess over do do .. *390*

Budget Head to which the work is charge-
able, in detail

Military

Amount of current year's allotment *500*

Do. expended in previous years "

Total *500*

Balance to be provided ... *390*

Funds can be made available during the
current year

(Yes or no, and state how in former case)

*Yes. Rs 1700 withdrawn from 9th 26th April at the
disposal of Govt. on 15-12-75 No 2925
4873. Refund Military at the disposal of ch. p.
Brought forward as urgent*

(Yes or no, and if so state by who)

Not stated.

*Charges No. 42
7/11/76*

DOCUMENTS IN FILE.

From District Engineer—*Vizagapatam*

✓ 1 Covering letter No *1077*, dated *5 Oct 75*

1 Letter from Range Officer, No , date

✓ *Revised*
1 Detailed Estimate

✓ *Comparative Statement.*
1 ~~Abstract~~

1 Plan
✓ 1 Standard Plan put up.

1 Specification Report

From Office—

Original sanction, No , date
for detailed estimate preparation

Orders and Proceedings	No	Date	Under	
			P W D	G O
P W Department			No	Date
			<i>935</i>	<i>8-4-75</i>
Public do			<i>1016</i>	<i>5-7-75</i>
Revenue do			<i>1512</i>	<i>4-9-75</i>
Financial do				
Military do				

NO. *1077*

Vizagapatam District Engineer's Office.
WALTAIR *5th October* 1875

From

THE DISTRICT ENGINEER
VIZAGAPATAM

To

THE *Secretary to Government P.W.D.*
Madras

No. 01 to S. P. W. D.
1000 7.12.75

SIR,

* Amounting to
Rs 890

I have the honor to submit herewith for the sanction of Government a revised Estimate and Plan, with a comparative statement, for making certain improvements to the Armourers' shops at Virianagram and Vizagapatam in lieu of the Estimate (Rs 500) sanctioned in G.O. No 935 dated 8th April 1875.

2. The excess over the original Estimate is due to the alterations required by the Dy. Asst. Adjutant General for Musketry as shown on the Plan.

3. The Revised Estimate and Plan were countersigned by the Officer Commanding *Vizagapatam*

District and approved of by His Excellency
the Commander-in-Chief.

4. An allotment of Rs. 500 was sanc-
-tioned in G.O. No. 1904 of 5th July 1875
for the work in question.

I have the honor to be
Sir

Your most Obedt. Servt

M Windle Major

Offg. District Engineer
Vizagapatam

688-2/15 N=171-172
 - 5-July - - 147-188.
 - 6-Sept - - 75-76 with copy
 of standard plan }

By W. 1895 Sept.
 From No. 5531
 The District Engineer
 Viragapatam
 To The Secretary to Govt Works
 Madras

Dated 5th
 Recd. 11th } October 1875
 Ch. Engrs No 429/11/16
 1077

Submits for sanction a
 Revised Estimate and
 Plan with a Comparative
 Statement for making
 certain improvements to
 the Armourers Shops at
 Vizianagram & Viragapatam

Despts Oct 15-10-75

Viragapatam District Engineer
 No. 2133 Office. Camp Elimnagaram
 25th March 1876

From
 The District Engineer
 Viragapatam
 To
 The Under Secretary to Government
 Public Works Department
 Madras

Sir,
 With reference to your Memo. N. 43 dated 16th inst. asking time to expect timely reply to the Memo as per margin, I have the honor to inform you that a fresh Plan and Estimate, for the additions proposed to the Armourers Shops at Virianagram and Viragapatam, prepared in accordance with your instructions, and with the latest Standard Plan, received with G.O. N. 2620 dated 2nd September 1875, were forwarded to the Deputy Assistant Assistant General for Madras on the 17th inst. for his countersignature. They will be submitted to you when received back from that Officer.

The

N. 42 dated 30 December 1875
 (not 1st January 1876)
 Subject
 Requesting to correct the
 Plan showing the additions
 proposed for the Armourers
 Shops at Virianagram and
 Viragapatam, and cause
 the rates of the District
 to be sent to his Office
 as early as practicable

2 The Schedule of Rates of this District
referred to in your Memo N^o 42 of 30th Decem-
ber 1875, for the year ending 31st March 1876
was forwarded to the Chief Engineer with this
Office Letter N^o 118 of 21st April 1875. The one
for the year ending 31st March 1876 will be
forwarded as soon after the 1st April as possible.

3 The last District Schedule of
Rates (for 1874-75) contained in detail only
the rates for the Jeypore Range. Those for
Golconda and Viranagram Ranges were
not sent, as no changes had been made in
the rates given in the Schedules of those
Ranges for the previous years, vizt 1873-74.

4 Should you wish it, I shall send
you a copy of the last detailed Schedule
of Rates for Viranagram and Golconda
Ranges (for 1873-74), pending the prepa-
ration of the Schedule due on the 1st April.

I have the honor to be

Sir

Yours most Obedt Servt

Mondurani

Offr District Engineer
Viranagram

211
P.W. 1876 Departs
No 2386

From
The Offg Dist Engineer
Vernagapatam

To
The Under Secretary
- to Government P.W.
Madras

Dated 25th March 1876
Recd 1st April
N. 2133

Reporting that a fresh
Plan & Estimate for the
additions proposed to the
Ammares' Shops
at Vernanagram and
Vernagapatam were forwarded
to the D. & A. Secy. G.
for scrutiny on the 10th
instant for countersignature

FORMER CASES

Current No 6531 of 1875
8013

"
"
"
"

M WORKS FORM No 3

Current No 2386

From The Dy Engineer
Vijayapattam
[Signature]

No 2133
Dated 25 March 1876
Recd 1 April

Subject — Reports that a
fresh Plan & Est. for the
additions proposed to the
Armourer's Shops at
Vijayapattam and
Vijayapattam were forward-
ed to the Dy Asst. Ady.
Genl for [unclear]
ENCLOSURES

From to
"
"
"
"

Orders and Proceedings in file.

Depart- ment	No	Date	ENDORSEMENTS.		
			Depart- ment	No	Dated
P.W.D.	1904	5/7/75			
"	2520	4/9/75			
"	935	8/4/75			
Memo.	42	11/1/76			

(a) Heads of Service — Imperial

Fund Ordinary

Class Imperial Works

Main-head Military

Sub-head. Accommodation for Native Infantry

Name of Work. Dinning room for [unclear] at the
Armourer's shops at Vijayapattam &
Vijayapattam.

Amount Rs. 765 each

To be carried out by the P.W.D. Department.

Print with G.O. No. 1147 of 8-5-76 margin

LATER CASES

Current No of 187

"
"
"

1313B

Cm-5.576 Dtd 8/8/76
Depd to 2-5-76

No. 1147

Pl. D.
33K

Proceedings of the Madras Government.

18th May 1876

* Letter from D.E. Vizagapatam (H.E. No. 1476 d/9th Decr/75)
 Letter from the D.E. Engr. Vizagapatam — H.E. No. 1077 dated 5th Octr. 1875

* Chief Engr. — Memo: — "No. 42 dated 11th Jan'y/76

Letter from the D.E. Engr. Vizagapatam "No. 2133 dated 25th Mar/76

do. do. do. — "No. 117 dated 15th Apr/76

His Grace the Governor in Council
 sanctions the Estimate
 of Rs. 1530 for construct-
 ing a Browning room,
 fitting up a Forge, seal-
 ing trough, drying
 room, Arm Racks, and
 building a chimney in
 the Armourer's Shop at
 Vizagapatam and

D.E. Vizagapatam.
 R. P. W. H.
 M. L. B. P. H.
 This sanction is registered as complete.
 No. 19 M. O. of 1876-77
 Dated 18/5/76

