

7958, 8426.
Public Works (1896) Department.

G.O., No. 3278 to

DATED 14th November 1896.

[Despatch Abstract.]

Quarter Estimate of Rs. 10,500 for Constructing
— with out houses for the Port officer
at Vizagapatnam, sanctioned with remarks.

T.C. 14/11

INDEXED

16/11

Government { 1896 } of Madras.
PUBLIC WORKS.

Spare copies

NOVEMBER.

Estimate of Rs. 10,500 for constructing — with out-houses for the Port officer at Vizagapatam, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From the Superintending Engineer, I Circle, to the Presidency Port Officer, Madras, dated 25th August 1896, No. 412 V.Z.

With reference to G.O., No. 1305 W., dated 23rd April 1896, I have the honour to forward herewith plan and estimate, amounting to Rs. 10,400, for constructing quarters and out-houses for the Port officer at Vizagapatam, for your countersignature and submission to Government for sanction.

2. The approximate cost of Rs. 6,600, reported in my letter No. 340 G.L., dated 24th August 1894, addressed to the Chief Engineer, Public Works Department, was for constructing quarters according to the original plan without verandahs and bed and bath rooms on the upper floor, sanctioned for the Port officer at Pámban.

3. As regards the quarters at Gopalpur and Bimlipatam, the Executive Engineers report that there are properties for sale and they can be purchased at a very cheap rate. Copies of the reports received on the subject are enclosed for your information.

4. Surveys and valuation reports for these buildings have been called for, and they will be submitted for the approval and sanction of Government when received through you.

No. 413 V.Z.

Submitted to the Chief Engineer, Public Works Department, with reference to his memo. No. 2681 C., dated 5th September 1895.

25th August 1896.

(Signed) J. C. LARMINIE,
Superintending Engineer, I Circle.

From Commander H. A. STREET, R.I.M., Presidency Port Officer, Madras, to the Secretary to Government, Marine Department, dated 8th September 1896, No. 1678/302 G.

I have the honour to forward, duly countersigned, an estimate, amounting to Rupees (10,400) ten thousand and four hundred, for constructing quarters and out-houses for the Port officer at Vizagapatam, and to request that the same may be sanctioned and the necessary funds allotted. The plans, &c., received with the estimate are also herewith sent.

2. Although no budget provision has been made for this work, the expenditure can be met from the Vizagapatam District Port fund.

Note by the Chief Engineer, Public Works Department.

For the sake of light and air, it is considered desirable to substitute pillars for the dead-wall at the back entrance and it would be well, on the same account, to insert a window 3' x 5" on either side of the back door to the sitting-room. The thatched roof, proposed for the rear verandah is objectionable (*vide* Public Works Code, paragraph 42, chapter VII, Volume I).

2. The rolled steel girders provided in the estimate are weak. If we assume a live-load of 120 lb. per square foot, the 8" x 5" section girders may have to carry 11½ tons, and the 6" x 5" girders 10¼ tons, for which weights sections of 13" x 5" and 12" x 5", respectively, will be necessary.

3. These alterations will entail an excess of about Rs. 200, which can be reduced to Rs. 100 by lowering the estimate rates of terracing and wood-oiling—Rs. 24 and Rs. 1-4-0, respectively—to the schedule rates of Rs. 20 and Re. 1. The estimate is raised to Rs. 10,500 accordingly.

4. The Presidency Port Officer has not signed the plans. His signature to them should be obtained before the work is commenced.

(Signed) D. McNEIL CAMPBELL, Col., R.E.,
Chief Engineer.

8th November 1896.

ORDER—No. 3278 W., dated 14th November 1896.

The estimate, amounting to Rs. 10,500, as altered by the Chief Engineer, Public Works Department, for constructing quarters with out-houses for the Port officer at Vizagapatam, is sanctioned.

2. Attention is drawn to the Chief Engineer's note recorded above.

3. The Superintending Engineer will report the amount that can be spent on the work before the close of the official year.

4. The sanction accorded in paragraph 1 has been registered as Excluded Local No. 11 W. of 1896-97, and classified as Civil Buildings—Original Works.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, I Circle, with fourteen enclosures.
" Examiner, Public Works Accounts.
" Marine Department.

Exd. T. K. Narayana Aiyangar.

P.W. DEPARTMENT.

No. 3278. W. of 14th November 1896.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Supg. Engineer, First Circle No 41372, d/ 25th Aug. 1896.
Letter from the Presidency Port Officer No ¹⁶⁷⁸/₃₀₂ G. d/ 8th Sept. 1896.
Note by the Chief Engineer S.W.D. dated 8-11-96.

The estimate amount-
ing to Rs 10,500, as altered by the
Chief Engineer S.W.D. for con-
-structing quarters with out-
-houses for the Port Officer
at Vizagapatnam is sanctioned.
2. Attention is drawn to
the Chief Engineer's note
recorded above.

3. The Supg. Engineer
will report the amount
that can be spent on the
work before the close of the
official year.

4. The sanction accorded
in para 1 has been register-
ed as Excluded Local No
11 W of 1896-97 and classified
as Civil Buildings Original
works.

To
The Supg. Eng. 1st Circle
with 14 Encls
" Examiner P.W. accts: 13/11/96
" Marine Dept. ✓

This need not
go in circ.

Note by the Chief Engineer
P.W. Dept. dated

For the sake of light and
air, it is considered desirable
to substitute pillars for
the dead-wall at the back-
entrance and it would be
well, on the same account,
to insert a window 3' x 5"
on either side of the back-
door to the sitting room.
The thatched roof proposed
for the rear Verandah
is objectionable Vide P.W.
Code para 42, Chapter
VIII, Volume I.

2. The rolled steel girders
provided in the estimate
are weak. If we assume
a live load of 120 lbs per
square foot, the 8" x 5"
section girders may have
to carry $11\frac{1}{2}$ tons, and the
6" x 5" girders, $10\frac{1}{4}$ tons
for which weights, sections
of 13" x 5" and 12" x 5"
respectively will be neces-
sary.

3. These alterations will
entail an excess of about.

T
B

about Rs 200, which can be reduced to Rs 100 by lowering the estimate rates of terracing and wood oiling Rs 24 and Rs 1-4 respectively to the schedule rates of Rs 20 and Rs 1. The estimate is raised to Rs 10,500 accordingly.

4. The Presidency Port officer has not signed the plans. His signature to them should be obtained before the work is commenced.

[Signature]
8/11/96
R. W.

Cms
7.11.96

7958

327 *[initials]*

P.W. W

Note

Draft order sanctioning the estimate with an E.W.'s note as drafted by P.W. is submitted.

2. Before passing the order, it will have to be considered whether the expenditure proposed is justifiable in consideration of the pay of Rs 300 drawn by the Port officer. The normal rent calculated in accordance with Code rules will be Rs $67\frac{2}{3}$ per mensem as shown below, which is 8 percent of the pay of the officer is Rs 24:-

(a) Capital Cost of the building and site	Rs 10,500
(b) 10 percent for Establishment and Tools and Plant	1050
Total Capital cost	11,550
(c) Interest at 4% on (a) & (b)	462.00
(d) Repairs at 3% - do.	346.50
(e) 10 percent on (d) for Estab- lishment and Tools & Plant	34.65
(f)	811.965

or Rs 812 per annum
or Rs $67\frac{2}{3}$ per mensem

P.J.O.

11/11/96

on

for orders.

Mr. S. J. has ruled that the rules in Code para 17, Chapter I, Vol I, must not be applied to estimate to be carried out from Excluded Land funds. The matter is therefore within the discretion of this Govt. It is for this Govt to decide whether the estimate is excessive.

In the case of the Panchan question, it was decided to restrict the cost to Rs. 8000. But the Presy. Port Officer has urged that the accommodation to be given for Rs. 9000 is insufficient, & the S.S. has been asked to report the extra cost of the additional accommodation asked for.

Cs
6/11/96

W.

Port Officers are for the most part middle-aged, married men who need comfortable houses, and as we can build them such without overstepping the rules, perhaps the estimate might pass.

CMS
7.11.96.

Public Works Department.

Note by the Chief Engineer P.W.D.

For the sake of light and air it is considered desirable to substitute pillars for the dead-wall at the back-entrance: and it would be well, on the same account, to insert a window 3' x 5" on either side of the back-door to the sitting room. The thatched roof proposed for the rear verandah is objectionable vide P.W. Code para 42, Chapter VII, Volume I.

- The Rolled Steel girders provided in the estimate are weak. If we assume a safe live load of 120 lbs per square foot, the 8" x 5" section girders ^{may} have to carry $11\frac{1}{2}$ tons and the 6" x 5" girders, $10\frac{1}{2}$ tons for which weights sections of 10" x 5" and 12" x 5" respectively will be necessary.
- These alterations will entail an increase of about Rs. 200 which can be reduced to Rs. 100 by lowering the estimate value of terracing - Rs. 24 and Rs. 1-4 respectively - to the schedule rates of Rs. 20 and Rs. 1. The estimate

Current No. 8426
Letter No. 1678 of 302
Dated 8th September 1896.
From the Presidency Port Officer, Chennai.

TECHNICAL NOTE.

Name of Work Constructing Quarters and out-houses for the Port Officer at Vizagapatam.

Amount of Estimate, Rs. 10400.

Budget grant - nil

PARTICULARS OF ESTIMATE.

Main Building	Rs. 8870
Subsidiary Buildings	
Cook's Kitchen	600
+ Servants quarters	
Coach house & stables	520
Masonry well	250
Contingencies	Rs. 234
about 2 1/2 per cent.	
Petty Supervision	Rs. 261
about 2 1/2 per cent.	
Land Compensation	160

Total Rupees ... 10400.

PARTICULARS OF CONSTRUCTION.

Surface soil Pure Sand 3 ft. deep.
Sub-soil Mixed red sand 5 ft. in depth.
Foundations { 3 ft in depth, Concrete in mortar.
 3 ft do Rough stone do
Basement 2 ft. high & will be built of Rough stone in mortar.
Walls 14 1/4 ft. high to top of joists and will be built of Rough stone in mortar. Arch work & parapet walls will be built of brick in Chunar.

Plastering or Pointing Walls inside will be plastered with 2 coats of Chunan & the exterior pointed with Larkite Mortar.

Flooring Will be laid with 6" thick of Concrete & rendered smooth.

Roofing Main building will be terraced with brick on ridge & the verandahs covered with Mangalore tiles.

Doors and Windows Panuelled & Venetian doors & Venetian windows.

Roof timbers Teak wood for main building & Country wood for Out-houses.

Scantlings Correct.

Rates Fair except terracing for which Rs. 24 per sq. is allowed against Rs. 20 in schedule & wood cutting for which Rs. 1-4-0 is allowed against Rs. 1- in do.

The plinth area of the main building is 3515 square feet, and the cost per square foot will be Rs. 2-8-4.

The plans and estimates have been countersigned by the Presidency Port Officer, but not and the plans. The Presidency Port Officer forwards the Plans & Estimates with his 1678 of 8th September 1896 to Govt. for sanction. 302 G

REMARKS.

The plans and Estimates under review have been prepared by the Supt. Engr., I Circle as called for in G.O. No. 1305 W. of 23rd April 1896.

The Supt. Engr. states in the Specification report which accompanies the Estimate that the building is designed according to the plan of Quarters sanctioned for the Post Officer at Pambau with necessary modifications proposed by the Presidency Port Officer in para 3 of his letter No. 1678 G. of 16th March 1895 addressed to the Chief Secretary to Govt. -

raising of the
the portion of back verandah wall

is raised to Rs. 10500 accordingly.

4. The Presidency Port Officer has not signed the plans. His signature to them should be obtained before the work is commenced.

Costly
27.10.96.

The saving that would be effected by allowing the lower rates would be:-

Terracing - Rs. 105
Wood cutting - 6-13.
Rs. 115 - 13-0.

His signature to the Plans should be obtained before the work is commenced.

Yes. P. K. S. should be substituted

well hatched in pencil should, I think, be omitted as its presence will prevent breeze and light into the sitting room and I consider it necessary to insert two windows 3'x5' in the wall

as marked in pencil. The thatched verandah on back of the building is objectionable as per para 42, Chapter VII P. W. Code.

The foundations of the walls, as provided in the Estimate, are 3 ft. of Concrete & 3 ft. of Rough Stone in Mortar. I beg to suggest that the whole depth of the foundations, viz. 6 ft. be made of Concrete and the width of basement increased to 2'6" instead of 1'6" as shown in pencil on plan.

The Rolled steel girders provided in the Estimate are:-

No. 4 - 8"x5" Section
No. 4 - 6"x5" do. These are too weak for the load they have to carry and therefore they require alterations as follows:-

2. Girders for sitting room } 13"x5" Section
2 do - for Bed room (left) } to carry a load of 11-48 tons.
2 do - for upper story }
2 do - for Bed room (right) } 12"x5" Section to carry a load of 10-28 tons.

Please see Dorman Long's Hand book. Plates 64 & 67.

The result of the alterations suggested above is as follows:-

Extra

Load.

Terrace 16'x7'4"x0'9" = 88 cft @ 120 lbs. per cft = 10560 lbs.
Joists 12'x7'4"x3'5" = 9'6" cft } 422--
Live load 16'x7'4" = 117 1/2 sq ft @ 46 lbs. per sq ft } 14080--
Weight of Girders 16'x4'1'5" 5 lbs per foot = 664--
Total = 25,726--
or 11-48 tons

Load.

Terrace 15'x7'x3'4" = 79 cft @ 120 lbs. per cft = 9480 lbs.
Joists 11'x7'x3'5" = 8 cft @ 46 lbs. per cft = 368--
Live load 15'x7' = 105 sq ft @ 120 lbs. per sq ft = 12600--
Weight of Girders 15'x3'9" 5 lbs per foot = 585--
Total = 23,033--
or 10-28 tons

W = 10.3 x 21 = 216.3.

a load of 12'x5" with be required.

Intra work.

67.87 cft of Concrete for foundations
at Rs 8-6-0 per 100 cft Rs. 543

9.38 cft of Rough stone in mortar
for the increased width of
basement @ Rs. 12 per 100 cft " 113

30 Sqft. of Venetian windows @ } 38
Rs. 1-4-0 }

6 Girders (15"x5" Sect.) @ 41.5 lbs. per ft.
18 1/2 ft long = 4,606 lbs.

2 -do (12"x5" Sect.) @ 39 lbs. per ft.
17 1/2 ft long = 1,365 lbs.

Total lbs. 5,971.

or 53.31 Cwt.

@ Rs. 11-0-0 per Cwt. = Rs. 586

Total Intra Rs. 1,280.

Deduct Saving.

39.42 cft of Rough Stone in mortar
allowed for foundation
at Rs. 12 per 100 cft. Rs. 473

2.75 cft of Rough stone in mortar
of back wall omitted
@ 12 Rs. } 33

57 cft of Arch work over do - } 10
@ 18 Rs. -- }

Hatched shed - 11

Girders provided in the Est. 407

Total Saving = 934

1280

934

Excess Over Estimate - Rs. 346

At
26-10-96.

These alterations are
not necessary

Excess due to Saving due to
alterations. alterations.

Windows - Rs. 38

Girders - " 586

Hatched shed -

624

410.

Net sum. 206 which Rs. 115.13.0

may be saved by
lowering the rates on
wood-oiling and
terra-cing as above. The estimate

may be raised from Rs. 10,400
to Rs. 10,500 and approved
subject to a letter from the Chief
Engineer P.W.D. as written on
the first page of this note.

CH 108

28
10/10

O. W.
Marine (1896) Department.

CURRENT No. 986
8426

Endorsement
Order No. 464 E, of 17 September 1896

Approved and
transferred to the Public
Works Dept.

From
The Presidency P.W. Officer,
Madras

No. 1678
302 9

Dated 8 September 1896.

Received 19.9.96

Enclosures 16 (Per packet post)

Spare copies x 3 plans

SUBJECT.

Requesting sanction for
an estimate of Rs. 10,400/-
for constructing quarters
and outhouses for the
Post officers at Vizagapatnam.

For examination

CH 108
14.9.96

BACK PAPERS.

FURTHER PAPERS.

G.O.	No.	Department.	Date.
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G.O.	No.	Department.	Date.
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Bimlipatam Post office
30th January 95

No. 26
26.

From,

Captain H. J. Boas
Post officer
Bimlipatam

To,

The officer in charge
Ellamanchili Sub Division

Sir,

Adverting to your letter no. 1134 dated 15th October 1894, I have the honor to inform you that the building & grounds near the flag staff belonging to Mr. Perum is now for sale, and as this property is most advantageously situated for a Post office quarters, I request you will inform me when you wish me to move the matter in any way.

I would also point out the necessity of an early reply as there are several applicants for the property.

I have &c.

(Sd) H. J. Boas

(True Copy)

Post officer

(Sd) J. Mylasakm. 5/6

Head Clerk

Vizagapatam Dny

(True Copy)

J. Clarence

Superintending Engineer

28/5/95

6/6
27/3

(True Copy.)

148 98

Superintending Engineer
First Circle

27/8

No. 1678
302 9

Presidency Port Office,
Madras, 8th September, 1896.

From

Commander H. A. Street, R.I.M.,
Presidency Port Officer,

MADRAS,

To

The Secretary to Government,
Marine Department,

CHERPAK.

Sir,

I have the honor to forward, duly countersigned
an estimate amounting to Rupees (10,400) ten thousand
and four hundred for constructing quarters and out-houses
for the Port Officer at Vizagapatam and to request that
the same may be sanctioned and the necessary funds allotted.
The plans &c. received with the estimate are also
herewith sent.

2. Although no budget provision has been made for
this work, the expenditure can be met from the Vizagapa-
tam District Port Fund.

I have the honor to be,

Sir,

Your Obedient Servant,

H. A. Street

Commander, R.I.M.,
Presidency Port Officer.

With so. 1678
must be made
from the general
allowance of the
P. & S. Dept.
10/9

Public Works (1896) Department.

CURRENT No. 7958

Order

*Await receipt
of the plan & estimate.*

14/9/96

From

*The Supty. Engineer,
T. circle.*

No. 4132.3

Dated 25. 8. 96

Received 3. 9. 96

Enclosures

Spare copies

SUBJECT.

*Quarters & out-houses for
the Post-officer at Vizagapatnam.
Submitting that plan and
estimate for constructing
have been forwarded to the
Presy: Post-officer, Madras.*

BACK PAPERS.

G.O.	No.	Department.	Date.
	26810	P.W.	5-9-95 ✓
	1305W	-	23-4-96 ✓
	4642	"	17-9-96.

FURTHER PAPERS.

G.O.	No.	Department.	Date.
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Letter from the Superintending Engineer First Circle No. 412^{U.L.} dated 25.8.96. to the Presidency Port Officer Madras.

With reference to G.O. No. 1305^W dated 23rd April 1896, I have the honor to forward herewith, plan and estimate amounting to Rs 10400 for constructing quarters and out houses for the Port Officer at Vizagapatam for your counter-signature and submission to Govt. for sanction.

2. The approximate cost of Rs 6600 reported in my letter No. 3409^L dated 24th August 1894 addressed to the Chief Engineer P.W.D was for Constructing quarters according to the original plan without verandahs & bed & bath rooms on the upper floor, sanctioned for the Port Officer at Pamban.

3. As regards the quarters at Gopalpur and Bimlipatam the Executive Engineers report that the properties for sale and they can be purchased at a very cheap rate. Copies of the reports received on the subject.

3950 CD 11.12.05
embodied in G.O.
No. 1305 W of 23-4-96.

Subject are enclosed for your in-
formation.

4. Surveys and valuation reports
for these buildings have been called
for and they will be submitted for
the approval and sanction of Govern-
ment when received through you.

(True Copy)

No 413 U.S. dated 25th August 1896

Submitted to the Chief
Engineer Public Works Department
with reference to his memo No. 2681C
5.9.95

J. Lammie
Superintending Engineer
Hurst Circle
28/8

4/1
27/8

6
111

17/11