Public Works (1899) Department.

G.O., No. 1784 W

DATED 11th July 1899

13/7/99

[Despatch Abstract.]

Port & Sea Customs Offices at Tuticorin:

The estimate amounting to Rs 21,350, for altering and enlarging the —— and providing therein Quarters for the Port Officer, sanctioned, with remarks.

120/8

F.

B.

C.S.

22/7

V 26,
27-4-98.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government [1899] of Madras.

PUBLIC WORKS.

Rcvd. } 1899. *Enclosures*
Regd. } *Spare copies*

G.O., No. 1784 W., 11th July 1899.

JULY.

Port and Sea Customs Offices at Tuticorin

The estimate, amounting to Rs. 21,350, for altering and enlarging the — and providing therein quarters for the Port officer, sanctioned, with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From Commander T. G. R. FINNY, R.I.M., Presidency Port Officer, Madras, to the Secretary to Government, Marine Department (through the Secretary to Government, Public Works Department), dated 17th May 1899, No. 1678/187 G.

With reference to G.O., No. 857, Marine, dated 10th October 1898, I have the honour to forward, duly countersigned, for sanction and allotment of funds, the accompanying estimate, amounting to Rs. 21,350, for altering and enlarging the Port and Sea Custom offices at Tuticorin and providing therein quarters for the Port officer.

2. Of the above mentioned sum, Rs. 11,000 is for the portion which will become the Port officer's residence, and towards this there is a grant of Rs. 8,000 in the budget for 1899–1900 available for expenditure in the current year, and the balance can be provided in the next budget or met from other sources if required this year.

3. The sum of Rs. 10,350, I would propose being allotted from the reserve with the Public Works Department, and debited to Port and Provincial funds in proportion to the accommodation provided for the Port office and Custom office, respectively.

Note by the Chief Engineer, Public Works Department.

An estimate of Rs. 13,930 was sanctioned in G.O., No. 2751 W., dated 2nd October 1897, for the construction of a residence for the Port officer at Tuticorin on the reclaimed foreshore opposite the English church.

2. The local merchants having objected to the site selected, the Committee constituted to consider the requirements for passenger and goods accommodation at the port at Tuticorin was directed in G.O., No. 656, Marine, dated 3rd August 1898, to submit a report on the objection raised with suggestions, if necessary, as to alternative sites. The Committee came to the conclusion that it would be advisable to abandon the original proposal and recommended the extension of the present Sea Customs and Port office building and to provide quarters therein for the Port officer. This recommendation was approved in G.O., No. 857, Marine, dated 10th October 1898, and detailed plans and estimates were called for in G.O., No. 2864 W., dated 11th October 1898.

3. An estimate of Rs. 21,350 has accordingly been received and it provides for the building of two additional stories, the space available being limited. The following is the proposed distribution of accommodation :—

(*a*) All the rooms of the first floor to be occupied by the offices.
(*b*) The back room of the second story to be used by the Port officer as his office-room.
(*c*) All the other rooms of the second story with the third story to form the Port officer's residence.

(*d*) The store-rooms on the north side of the godown at back to the kitchen and servants' quarters and the shed at the west end to be used as coach house and stable.
(*e*) The court-yard in the middle of the godowns to be opened out for the private use of the Port officer, as there is no compound.

4. The estimate is recommended for sanction with the remark that the landing as etched in pencil on the second floor and the northern parapet wall of the staircase which have been omitted should be added. The cost of this addition will be inconsiderable and will not materially affect the total of the estimate.

3rd July 1899.
(Signed) W. B. deWINTON,
Chief Engineer.

Order—No. 1784 W., dated 11th July 1899.

The estimate, amounting to Rs. 21,350, for altering and enlarging the Port and Sea Customs offices at Tuticorin and providing therein quarters for the Port officer, is sanctioned.

2. The sanction accorded in G.O., No. 2751 W., dated 2nd October 1897, to the estimate of Rs. 13,930 for constructing quarters for the Port officer will be rescinded.

3. Attention is drawn to the Chief Engineer's note read above.

4. A sum of Rs. 8,000 provided for the Port officer's quarters in the current year's Excluded Local Funds Budget will be transferred to the work now sanctioned, and the Superintending Engineer will report what additional grant can be spent before the close of the official year.

5. The full amount of the estimate will be charged to Port funds, as the proposed improvements to the Sea Customs office are estimated to cost Rs. 8 only.

6. The countersignature of the Collector to the plan should be obtained before the work is put in hand.

7. The sanction accorded in paragraph 1 of these Proceedings has been registered as Excluded Local No. 7 W. of 1899–1900, and classified as Civil Buildings—Original Works.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, VI Circle,
with plans and estimates (10).
„ Examiner, Public Works Accounts.
„ Marine Department.
„ Revenue Department.

Exd. T. K. Narayana Aiyangar.

A

P. W. DEPARTMENT.

READ the following :—

From the Presidency Port Officer, Madras, No.1678/187 G d/17th May 99.

Note by the Chief Engineer, P. W. D. dated 3rd July 1899.

Circulated to ~~His Excellency the Governor~~

B of R
Civil works

3 P

ORDER. No 1784 W d/ 11-7-99

The estimate amounting to Rs.21,350, for altering and enlarging the Port and Sea Customs Offices at Tuticorin and providing therein quarters for the Port Officer, is sanctioned.

2. The sanction accorded in G.O. No.2751 W d/2nd October 1897 to the estimate of Rs.13,930 for constructing quarters for the Port Officer will be rescinded.

3. Attention is drawn to the Chief Engineer's note read above.

4. A sum of Rs.~~3,000~~ 5,000 provided for the Port Officer's quarters in the current year's Excluded Local Funds Budget will be transferred to the work now sanctioned and the Supg Engineer will report what additional grant can be spent before the close of the Official year.

5. The full amount of the estimate will be charged to Port Funds, as

~~Flag B~~

W.E.H.
7.7.99

[illegible]

[illegible]
P
8/7

Memoed

T
30.7.99

CS

P. W. 4
1,000—14-11-98.

as the proposed improvements to the Sea Customs Office are estimated to cost Rs.8 only.

6. The countersignature of the Collector to the plan should be obtained before the work is put in hand.

7. The sanction accorded in para 1 of these Proceedings has been registered as Excluded Local No. 7 W of 1899-1900, and classified as Civil Buildings, Original Works.

4/7

3.7.99

To The S. E. VI Circle, with plans & estimates. (10)
,, Exar. P. W. Accounts.
,, Marine Department.
,, Revenue Department.

22/7/99

Note. This estimate is reviewed in the accompanying technical note and the Chief Engineer's note read above.

2. In para 2 (2) of his letter printed with G.O. No.2284 W d/20th August 1897, the Collector of Tinnevelly recommended the construction of a new Customs and Port Office on the foreshore on the other side of the beach road, The proposal was supported by the Board Of Revenue but no further action was taken on the matter.

Flag A

2 — 8 —

3. An estimate of Rs.13,930 for constructing quarters for the Port Officer on the reclaimed foreshore was sanctioned in G.O. No.2751 W d/12th October 1897. When the work was put in hand, the local merchants objected to the site selected and the question was referred to a Committee for report vide G.O. No.666 Marine d/3rd August 1898.

Flag B

Flag F

Flag D

4. The Collector recommended that the site selected be abandoned and that the present Sea Customs and Port Office building be enlarged to provide accommmodation for the Port Officer and to meet the increased requirements of both the officers. The Ex. Engineer estimated the cost of the improvements at Rs.7000 but this estimate was only for utilising a limited portion of the available space. The Collector however thought that all the available space should be built over with a view to provide more comfortable quarters upstairs and better office accommodation downstairs and estimated the cost approximately at Rs.12,000. He also pointed out that this would be more economical than building a separate house for the Port Officer for Rs.13930 and a separate office building for about Rs.11,000. In passing orders on this question, the Hon'ble Sir Henry Bliss remarked that the plan of the Port Officer's quarters was a very unsuitable one and that the Chief Engineer had promised to see whether it could not be improved upon. The Suptg. Engineer was accordingly directed to reconsider the proposed plan or to build two additional stories. The latter suggestion has been ~~suggested~~ adopted, but as the present estimate provides for more additions and alterations than were originally contemplated, the amount has been increased.

Flag E

Flag I

estimate

does not provide for any material

gneer estimated the cost of the improvements at

5. The financial aspect of the original and present proposals is shown below:-

Original proposals.

Port Officer's residence	Rs.13,930
New building for the Sea Customs & Port Offices	" 11,000
Total	Rs.24,930
Deduct the estimated value of the existing office building proposed to be sold ..	8,400
Net cost	16,530

Present proposals.

Enlarging the existing Sea Customd & Port Office building to provide increased accommodation for the offices and quarters for the Port Officer	Rs.21,350
Excess	Rs. 4,820

6. It will thus be seen that the present proposals entailed an additional expenditure of Rs.4,820 but by adopting these proposals the Government will retain the site of the existing Sea Customs and Port Office, & avoid annoyance to local merchants

7. In the above circumstances, the estimate of Rs.21,350 is recommended for sanction.

HCl 1/7

3.7.99

W

Mia

H.a.H.

2P

Note by E. W.

Flag B An estimate of Rs.13,930 was sanctioned in G. O. No.2751 W dated 2nd October 1897 for the construction of a residence for the Port Officer at Tuticorin on the reclaimed foreshore opposite the English Church.

2. The local merchants having objected to the site selected, the Committee constituted to consider the requirements for passenger and goods accommodation at the Port at Tuticorin was directed in G. O. No.666 Marine, dated 3rd August 1898 to submit a report on the objection raised with suggestions, if necessary, as to alternative sites. The Committee came to the conclusion that it would be advisable to abandon the original proposal and recommended the extension of the present Sea Customs and Port Office building and to provide quarters therein for the Port officer. This recommendation was approved in G.O. No.857 Marine, dated 10th October 1898 and detailed plans and estimates were called for in G.O. No.2864 W dated 11th October 1898.

Flag F

Flag E

Flag I

3. An estimate of Rs.21,350 has accordingly been received and it provides for the building of two addtional --- stories, the space available being limited. The following is the proposed distribution of accommodation :-

(a) All the rooms of the first floor to be occupied by the Offices.

(b)

[illegible] porarily material [illegible] requirements at

(b) The back room of the second story to be used by the Port Officer as his office room.

(c) All the other rooms of the second story with the third story to form the Port Officer's residence.

(d) The store rooms on the north side of the godown at back to be kitchen and servants' quarters and the shed at the west end to be used as coach house and stable.

(e) The court yard in the middle of the godowns to be opened out for the private use of the Port Officer, as there is no compound.

4. The estimate is recommended for sanction with the remark that the landing as sketched in pencil on the second floor and the northern parapet wall of the staircase which have been omitted should be added. The cost of this addition will be inconsiderable and will not materially affect the total of the estimate.

1/7

E. W.

8

H.C.

Before sending up the estimate for sanction, the estimated cost of impts to the Offices has to be distributed between Provincial and Excluded Local (Port) Fund. This I have not been able to do with the help of the plan. A memo to the S.E may probably be necessary.

P.K.S
20/6/99

T

Will you kindly tell me whether you can give the cost of improvements to the Sea Customs and Port offices separately

22/6/99

H.C.

The estimated cost of Rupees 21,350 is divided as follows

Sea Customs Office Rs	8.
Port & Marine Office ..	9,900
Port Officer's residence	11,442
Total estimated cost	21,350

vide details in pencil which please retain in file

W

Submitted for orders.

23.6.99

It will be seen from T's reply above that the estimate does not provide for any material

---

Current No. 4028.

Note for W.

In his letter printed with
.G 2284 W dated 20.8.97 (Para 2(2)),
Collector of Tinnevelly recommended the
nstruction of a new custom house and Port
fice on the foreshore on the other side of the
ach Road, as the present building is in-
nvenient in structure and situated on the
rong side; and the proposal was concurred
by the Board of Revenue vide para 3 of
Resolution, page 4 of the G.O quoted above.
further action was taken upon this.

An estimate of Rs 13.930 for
structing quarters for the Port Officer on the
laimed foreshore was sanctioned in October
17. When the work was commenced, the local
rchants objected to the site selected and
question was referred to a committee for
nsideration and report.

The Collector thereupon recommended
t the proposed site be abandoned and th
present sea customs and Port Office build
enlarged to provide accommodation for
Port Officer and to meet the increased requirements
both the Offices and reported that the Exec
gineer estimated the cost of the improvements
at

(b) The back room of the second story to be used by the Port Officer as his office room.

(c) All the other rooms of the second story with the third story to form the Port Officer's residence

(d) The store rooms on the north side of the godown at back to be kitch and servant's' quarters and the shed at the west end to be used a coach house and stable.

(e) The court yard in the middle of the godowns to be opened out for the private use of the Port Officer, as there is no compound.

4. The estimate is recommended for sanction with the remark that the landing as sketched in pencil on the second floor and the northern parapet wall of the staircase which have been omitted should be added. The cost of this addition will be inconsiderable and will not materially affect the total of the estimate.

HU
1/7

E. W.

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P. K. S.
20/6/99

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22/6/99

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The estimated cost of Rupees 21,350 is divided as follows

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Port & Marine Office	..	9,900
Port Officer's residence		11,442
Total estimated cost		21,350

vide details in pencil which please retain in file

W

Submitted for orders.

23.6.99

It will be seen from T's reply that the estimate does not provide for any material [illegible]

B. f.	Rs	727
Painted &c		24
Wooden railings		15
Replacing windows & fixing doors		55
Closing doorway		10
Total		831
Contingencies & Petty Estt		69
Total Rupees		900

Estimated cost of 2° floor	Rs	7550
Deduct Port Office portion		900
Total for residence 2° floor	Rs	6650

Staircases to residence

Concrete. 512 Cft at Rs 19-..-	Rs 97
Foundation & base at 172 Cft at Rs 19-8-..	Rs 33
Superstr 1312 Cft at Rs 19-8-..	Rs 256
Cut stone 51 Cft at Rs 1-..-	51
Terracing 35 Sft at Rs 31-8-..	11
Plastering 720 Sft at Rs 2-4-..	16
Total Rs	464
Contingencies &c	36
Total for stairs Rs	500

Then Dist.

~~Sea Customs Office —— Rs 8~~

~~Port & Marine Office lower floor = Rs 10650 - (8+100) = 10542~~

~~- do - do - upper floor as above —— = 900~~

~~Total Rs 11442~~

~~deduct proportional charge for foundation say 104~~

Abstract

Sea Customs Office ——	Rs	8
Port & Marine Office lower floor Rs 10650 - (8+100+500)	=	10,042
add upper floor vide details	}	900
Total	Rs	10,942
Deduct proportion for foundations & base say 1/4 the charge ——	}	1,042
Total Port Office		9,900

Residence for Port Officer vide estimate for 2° floor 7550 - 900	=	6650
add 3° floor ——	=	3150
add staircases vide details ——	:	500
add outhouses	=	100
add proportional charge for foundn	.	1042
Total	Rs	11,442

Abstract

Sea Customs Office	Rs	8.
Port & Marine Office	Rs	9900
Port Officer's residence	Rs	11442
Estimated total	Rs	21350

(b) The

B. of Rs

Purchase of ——
wooden railings ——
Refixing windows & fixing door
closing doorway ——
Total
Contingencies & Petty
Total Rupees

Estimated cost of
2° floor —— Rs
Deduct Port Office portion
Total for residence 2° floor

—

Staircases

Concrete.
512 Cft at Rs 19-0-0
Foundation & basement
172 Cft at Rs 19-8-0
Supst.
1212 Cft at Rs 19-8-0
Cutstone
51 Cft at Rs 1-0-0
Terracing
35 Sq ft at Rs 31-8-0
Plastering
720 Sq ft at Rs 2-4-0
Total
Contingencies &
Total for stairs

Then Abst.

~~Sea Customs Office ——~~
~~Port & Marine Office lower floor~~
~~= Rs 10650 - (8+100) = 10~~
~~-do- -do- upper floor~~
~~as above~~
~~Total Rs~~
~~deduct proportional~~
~~charge for foundation~~
~~say~~

Abstract

Sea Customs Office —— Rs
Port & Marine Office lower
floor Rs 10650 - (8+100+500)
= 10,042
add upper floor vide details } 900
Total Rs 10,942
Deduct proportion for foundations & base say 1/4 the charge —— } 1,042
Total Port Office 9,900

Residence for Port Officer
vide estimate for
1st floor 7550 - 900 = 6650
add 2° floor —— = 3150
add staircases vide details —— = 500
add [illegible] = 100
add proportional charge for founds = 1042
Total Rs 11,442

Abstract

Sea Customs Office Rs 8.
Port & Marine Office Rs 9,900
Port Officer's residence Rs 11,442
Estimated total Rs 21,350

Submit for sanction now, & add this as a note Flag A

L.W.S.
19. [illegible]

α Flag A

θ Flag B

α vide G.O. 666 Marine dt 3.8.98 Flag C (linked file)

γ Flag D (linked file)

Current No. 4028.

Note for W.I.

In his letter printed with G.O. 2284 W dated 20.8.97 (Para 2 (2)), the Collector of Tinnevelly recommended the construction of a new custom house and Port Office on the foreshore on the other side of the Beach Road, as the present building is inconvenient in structure and situated on the wrong side; and the proposal was concurred in by the Board of Revenue vide para 3 of its Resolution, page 4 of the G.O. quoted above. α No further action was taken upon this.

2. An estimate of Rs 13,930 for constructing quarters for the Port Officer on the reclaimed foreshore was sanctioned in October θ 1897. When the work was commenced, the local merchants objected to the site selected and the question was referred to a committee for consideration and report.

3. The Collector thereupon recommended γ that the proposed site be abandoned and that the present sea customs and Port Office building be enlarged to provide accommodation for the Port Officer and to meet the increased requirements of both the Offices, and reported that the Executive Engineer estimated the cost of the improvements at

at Rs 7000. This estimate was only for utilising a limited portion of the available space. The Collector, however, thought that all the available space should be built over with a view to provide more comfortable quarters upstairs and better office accommodation downstairs and estimated the cost approximately at Rs 12,000. He pointed out that this would be more economical than building a separate house for the Port Officer for Rs 13.930 and for a separate office building for about Rs 11000. In passing orders on the question, the Hon'ble Sir Henry Bliss remarked ∠ that the plan of the Port Officer's quarters was a very unsuitable one and that the Chief Engineer promised to see whether it could not be improved θ upon. The S.E was accordingly directed to reconsider the proposed plan or to build two additional stories. The latter suggestion has been adopted. It will thus be seen that the present estimate provides for more additions and alterations than were originally contemplated, which apparently accounts for the enhanced amount of the estimate.

∠ Flag E (limited plan)

θ Flag I

The financial aspect of the original and present proposals is shown below:-

Original Proposals.

Port Officer's residence – Estimated cost –	Rs 13.930
New office building –	Rs 11.000
Total	Rs 24.930.
Subtract the estimated value of the existing office building proposed to be sold }	∠ 8.400
Net cost –	Rs 16.530.

∠ The value of the sea custom store has not been included, as the rough estimate of Rs 11 000 for a new office building does not provide for store rooms.

Whereas the cost of the present proposals amounts to Rs 21.350 or Rs 4.820 in excess of the cost of the original proposals; but by adopting the proposals now submitted Government retains the site of the existing sea custom house and Port Office.

P K S
19/6/22

12

17844 G

Public Works Department.

Current No. 4028

Letter No $\frac{1678\ G}{187}$

Dated 17th May 1899

From the Presidency Post Office

NOTE BY TECHNICAL SECTION.

Name of work Altering and enlarging the Port + Sea Customs Offices at Tuticorin + providing therein quarters for the Post Office.

2d

Est R^s 21,350

An Estimate, amounting to R^s 13,930, was sanctioned in G.O. No 2751 W, of 2-10-97, for the construction of a residence for the Post Office in the reclaimed foreshore opposite the English Church.

As the towns people objected to the site, the Committee that first considered the question was revived, in G.O. No 166 Marine of 3rd August, 1898, to consider the objections raised, and came to the conclusion that it is desirable to abandon

5

R^d [illegible]/6/99

Rk

Please put up G.O. 2864 W of 11 November 1898

[illegible] 10/6/99

AC

Put up [illegible] 12/6/99

Was there not also a proposal for enlarging present or building new Sea Customs Offices? If so, what was amt of estimate?

7.6.99

W/

No such proposal has, I think, come up and no estimate submitted.

* The file may be sent down to ascertain whether an estimate for the sea customs offices was called for.

2 There is nothing about this proposal in the Committee's recommendation in regard to the [illegible] of the Port, [illegible]

+ Yes. He said that the P.Ws present proposal wd be cheaper than the former one of building a separate residence for P.O. but this has proved to be [illegible]

8/6/99

P. W. 60.
250—3-9-98.

the original proposal, and recommended the alteration and extension of the Port & Sea Custom Office buildings to provide for the residence as well as the Offices.

This recommendation was approved in G. O. No. 857 Marine, dated 10-10-1898, & detailed plans & Estimates called for in G. O. No. 2864 W, dated 11-11-98, which are now submitted.

The space available being limited, it is proposed to build two additional Stories, to secure proper Ventilation for the rooms, as suggested in the last of the G. Os quoted above. The rough plan was examined on the spot by the Chief & Supdg Engineers & approved by both. The following is the distribution of the available accommodation proposed by the Chief Engineer.

1. All the rooms of the 1st Floor to be occupied by the Offices.

2. The back room of the Second Storey to be used as an Office by

expensive - If this extra expense is taken the space of contemplated rights to Sea Customs Office it is all right - I want this point cleared up.

8.6.99

H.C.
Madras

This omission should be pointed out in E. W. Estd. The cost of the steps will be inconsiderable on total of Estimate.

the Port Officer.

3. All the other rooms of the 2nd & 3rd Stories to form the Port Officer's residence. The three rooms on the north side of the godown at back to be Kitchen & Servants Quarters, & the Shed at West End Coach house & Stable.

The court yard in the middle of the godowns to be opened out for the private use of the Port Office, as there is no compoun

Design of building. The landing as etched in pencil on 2nd Floor has, apparently, been omitted, together with the northern parapet wall of the Staircase.

Data for the principal items are submitted.

The plans & Estimates have been countersigned by the Presidency Port Officer.

A separate Estimate for a lightning conductor to the building will be submitted as soon as this Estimate is sanctioned.

Out of the Estimate of Rs 21,35 a sum of Rs 11,000 is for the portion that will become the Port Officer's residence for which there is a grant of Rs 3,000 in the Budget for 1899/1900 available for expenditure in the current year & the balance can be provided in the next Budget, or from other sources if required. The sum of Rs 10,350 remaining the Post Office proposes being allotted from the Revenue with the P.W. Dept and debited to Post and Provincial Funds in proportion to the accommodation provided for the Post Office and Custom Office respectively.

W.C.W.
2.6.99

The existing building, so far as I remember it, is small and founded on sand. The foundations are sufficient, and the additional ~~storeys~~ storeys are mostly independent of the existing walls. The design can be approved.

ACR
5th 6.99.

Calculation Sheet

Girders in rooms H & J.
Joists spaced 2' apart c to c
Floor - planked.

W

Live load $17.5 \times 7.5 \times 80^{\#}$ = 10500
Floor. Teak $17.5 \times 7.5 \times 45$ = 985
Joists $10 \times 7.5 \times \frac{1}{2} \times \frac{1}{4} \times 45$ = 600
Weight of girders say 500
Total lbs 12585
Say 6 Tons

$17.5 \times 6 = 105$ ft tons

A girder $10'' \times 5''$ weighing 35 lbs per foot run will suit - vide plate 69 page 25 of Dorman & Long's tables

Estimate allows the same

Teak Joists

W

Live load $7.5 \times 2 \times 80^{\text{lbs}}$ = 1200
Teak floor $7.5 \times 2 \times \frac{1}{6} \times 45$ = 112
Total — 1312 lbs

$$bd^3 = \frac{WL^2}{210} = \frac{1312 \times (7.5)^2}{210} = 352$$

$$bd^3 = 352$$

$b = 3$ inches $d = 5$ inches will do.

Estimate allows $3'' \times 6''$ which is ample

Terrace roof over Dining Room
2" floor - joists spaced $1\frac{1}{2}$ ft c to c.

W

Live load + roof $= 80 + 90 = 170$ lbs to sq ft.
$18 \times 7.66 \times 170$ = 23440
Joists $13 \times 7.66 \times \frac{1}{4} \times \frac{1}{2} \times 45$ = 583
girder = 800
24828 lbs

In addition to this load these girders will carry a portion of the verandah above. This can be taken as a central load of 3103 lbs equal to a distributed one of 6206 lbs

Total 24828
6206
31029
say 14 tons

18×14 = 252 ft tons

a girder weighing 12"×6" of 54 lbs per foot run will suit vide plate 65 page 24 of Dorman & Long's Hand-book

Estimate provides accordingly

Terraced roof over Drawing Room
Joists spaced 18" section 3"×6"

W
Live load + terrace = 80+90 = 170 lbs
14.5×8.13×170 lb = = 20040
Joists say = 400
girder = 650
Total lb = 21[illegible]90
Say 9 Tons.

14.5×9 = 130 ft tons.

a girder 10"×5" weighing 35 lb per ft run will suffice vide plate 69 page 25 of Dorman & Long's hand-book will suffice -

Estimate provides 10"×6" of 45 lbs per foot run which is rather heavy

Roof of Upper Room - Terraced.

The weight for live load in the Calculations of the Supdg Engr is taken as 30 lbs per ft - Calculating with the usual allowance given in this Office -

W
Live load + terrace = 80+90 = 170 lbs
18.5×7.66×170 ——— = 24091
Joists ——— 400
girder ——— 600
Total 25091 lb
Say 11 1/5 Tons -

18.5×11 1/5 = 207 ft Tons

a girder 12"×5" weighing 39 lb per foot run will suit vide plate 67 page 32 of Dorman & Long Hand-book -

Estimate provides 12"×5" at 30 lbs per foot run - which might be allowed to stand as it is not likely that a load of more than 40 to 50 lbs will be borne by the roof.

Weight of Verandah coming on girders below.

Kunyal terrace.
11×7 3/4 × 1/4 = 22 1/4 C.Ft @ 110 lbs
per C.Ft. — — = 2338

Palmyra rafters
11×7 3/4 = 85 1/4 sq ft
@ 3 lbs per sq. foot = 256

Teak reepers 210×2"×1/2" = 1.4 C.Ft
@ 5-lbs 66

Weight of bressummers
7'8"×6'9"×9 1/2"
= 3.41 C.Ft @ 45 lbs 153

Pillars
6×1 1/2×1 1/2 = 13 1/2 C.Ft @ 120 lbs for Coral Stone in mortar } 1620
Total lbs 4433
1/2 of this is carried by wall say 2216

Supdg Engr takes this weight as 3103 lb which might be accepted

W.L.M.
2.6.99

The S.E's calculations can be accepted

A.K.
5.6.99

the Secretary to Govt P.W.D

Marine (1899) Department.

P.W. **CURRENT No.** 4028

Order

From

The Presidency Port officer,
Madras

No. 1678/187 G

Dated 17th May 1899

Received 18.5.99

Enclosures ~~1 Estimate with 2 plans~~ 10 (2 plans)

Spare copies

SUBJECT.

Forwarding for sanction and allotment of funds an Estimate for altering and enlarging the Port and Sea Customs offices at Tuticorin and providing therein quarters for the Port officer.

I/ for check

HC

O.L.S 179 R10/6 Sent again 15/6 R22/6 Sent again 1/7/99 R10/7

BACK PAPERS.

No.	Date.
~~1474 W~~	~~14-6-98~~
~~2751 W~~	~~2-10-97~~
~~1083 W~~	~~26-10-97~~
~~3319 W~~	~~19-11-96~~
~~3000 W~~	~~22-10-96~~
~~2156 W~~	~~27-7-96~~
	~~+ file~~
2470 C	25-5-99
193 W	20-1-99
2864 W	11-11-98
1957 W	4-8-98
5422 D / A	29-6-98
2864 C	15-6-98
1474 W	14-6-98
318 W	9-2-98
91 W	14-1-98
2757 W	20-2-97
2284 W	20-8-97
+ file.	

These papers were returned to Records on 29-6-99

Kept back

FURTHER PAPERS.

No.	Date.

Thro' the Secretary to Govt., P.W.D.

No.1678/ 1879

Presidency Port Office,
Madras, 17 May, 1899.

From
Commander T.G.R. Finny, R.I.M.,
Presidency Port Officer,
MADRAS,

18

To
The Secretary to Government,
Marine Department,
CHEPAK.

Sir,

With reference to G.O., No.357, Marine, dated 10th October 1898, I have the honour to forward, duly countersigned, for sanction and allotment of funds, the accompanying estimate amounting to Rupees 21,350 for altering and enlarging the Port and Sea Custom Offices at Tuticorin and providing therein quarters for the Port Officer.

8772 : 2864 W
11-11-98

CN 3894 – Intimation from S.E. that the estimate forwarded to P.P.O. for countersignature. This current was sent to P.W. on 16-5-99
Sent to Madras on 18-5-99

2. Of the above mentioned sum, Rupees 11,000 is for the portion which will become the Port Officer's residence and towards this there is a grant of Rupees 3,000 in the Budget for 1899/1900 available for expenditure in the current year and the balance can be provided in the next Budget or met from other sources if required this year.

3. The sum of Rupees 10,350 I would propose being allotted from the Reserve with the P.W. Department, and debited to Port and Provincial Funds in proportion to the accommodation provided for the Port Office and Custom Office respectively.

I have the honour to be, Sir,
Your Obedient Servant,
T.G.R. Finny
Commander, R.I.M.,
Presidency Port Officer.