

registered as Provincial
No 40 W of 1895-96, and
classified as Civil Buildings,
Original Works

S
2.7

CHAS
7/95

June

S
8/9

Estimate for constructing
public offices at Bangalore

T. H.
B. C. M.

DESPATCH
18 JUL 95

S. E. C. L. with enclosures 18 ✓
Engineering Architect to Govt ✓
Ex. P. W. Accts. ✓
Revenue Dept ✓
Judicial Dept ✓
Local & Milit. Dept ✓
W. 8/9/95

No 1705 W D 11th July 1895

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Proceedings of the B^d of Rev (H.E. No 6055 Mis d/3rd Nov 94)
 Endt in the Revenue dept " 4505 d/19th "
 Memo: in the P.W.D. " 1384 C d/2nd Apr 1895
 Proceedings of the B^d of Rev " 3006 Mis d/19th June
 Endt in the Revenue dept " 2534 Mis d/27th "
 Note by the Chief Eng^r P.W.D. " d/2nd July

See - I can't recollect the
 upshot of the discussion which
 took place (in the course of which
 Messrs Winterbottom & Thomson
 were consulted d.t.o.) as to the ne-
 cessity of moving the C.W. from
 Vallam to Tanjore, but presume
 from this ^{draft} being circulated,
 that was in a minority

W

5/7/95

W
7 July

2
6/7

The afo correspondence
 referred to did not take
 place in the P.W. Dept.

R. S. S. S. S.

The estimate, amounting
 to Rs 1,25,800, for constructing
 public offices at Tanjore
 is sanctioned. Provision
 is made for the accommodation
 of Local Board Establishments.
 The Supt^r Engineer will
 report the amount of rent
 recoverable on this account
 and will apply for such
 funds as can be utilised
 on the building during
 the current official
 year.

2. This sanction has been

adhered to.

3. No funds have been
 provided for the work in
 this year's budget, but any
 allotment that may be
 required can be made
 from the reserve.

S

E.W.

Obtained
 July 2nd 1895

C.H.D.

4.55

No. 1705 W of 11th July 1895
 Endorsement in the Revenue Department No. 2554
 dated 27th June 1895 on Proceedings of the Board
 of Revenue (Land Rev) No. 3006 dated 17th June 95

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

Submitted for the
 consideration and orders
 of Government.

2. The space occupied
 by the tower could be used
 in any way that might
 be considered desirable, but
 on further consideration
 the undersigned is of
 opinion that the injury to
 the architectural appearance
 of the building by the
 omission of the tower would
 be greater than the saving
 of cost would justify, and
 therefore recommends
 that the original design

Agree
 MP
 577/95

follows:-

Collections Office.	13,720 Rs.	4.10.5.
Treasury —	9,528 Rs.	2.8.7
Record rooms —	7,300 Rs.	2.5.6
Press building —	3,108 Rs.	2.6.6
Lamp room —	214 Rs.	3.0.4.
Waiting shed.	604 Rs.	2. . . .
Cash house & Slaters	189 Rs.	1.8.9
Tiffin room —	478 Rs.	2.3.11.
Latrine —	480 Rs.	2.7.5.

The plans & estimate have
 been countersigned by the Collector
 & approved in the Revenue Dept.

Ths.
 9.11.95

1384 c

21.9.5

only 4-5-95, for R. Dept. Estimate 3-5-95

Doors & windows will be of teak-wood, as per descriptions noted in the estimate.

The following rates are slightly in excess of the Divisional schedule & if schedule rates be adopted the saving will be Rs 1300 -

Terrace roof	Rs 23.000	against	25.000
Terrace floor	22.000	- do -	23.000
Mangalore tiles	23.000	- do -	24.000
Work in work	4.2.6	- do -	3.000
Paint & varnish doors	1.5.0	- do -	1.8.0

The other rates as far as can be checked are fair.

The scantlings for roof & woodwork are correct & those for rolled steel girders far in excess of actual requirements, vide separate sheets of calculation attached.

No provision has been made for wooden ^{or iron} record racks in the record room as required by para 2 Chap XI of the P. & C. Code, nor for wall plates under joists, painting doors & windows of the main building & for wood oiling roof timber.

The plinth area of the main building with out-houses & the cost per sq ft will be as follows

necessary dry earth bins & sweeps passage, screen walls &c.

General - The nature of the surface soil is stated to be earth & the sub soil hard gravel at a depth of from 4 to 7 1/2 feet below ground surface, vide revised site plan sheet W. II.

The foundations for the main building will be 8 feet deep, the lower 3 feet will be laid with concrete & the upper 5 feet built with table moulded bricks in chunam. The foundation for the tower will be laid 9 feet deep the lower 4 of concrete & the upper 5 feet of table moulded bricks in chunam.

The basement will be raised 3 feet, basement floor & 1st floor 18 feet each, except the verandah of the 1st floor which will be only 14 ft. high to top of terrace. The tower will be raised 56 feet to the highest landing & 92' 8 1/2" above floor to top of finial. The walls will be built of table moulded bricks in chunam, plastered interior of rooms with 3 coats of chunam & polished & the exterior painted black. The floor will be of 4" concrete & plastered over with cement for the basement floor rooms & terrace flooring for the first floor rooms. The roof will be ~~down~~ terraced throughout with brick on edge &c. supported on rolled steel girders & teakwood joists.

Lamp room

This room will be 12 feet square & tiled, fitted with 4 rows of shelves, on two sides of the room as per plan.

Waiting shed

This will be a tiled roof shed with mission tiles, laid over timber joists & brusses. The shed will be 31'6" x 14'6" & fitted with seats of Cuddalore slabs 1'9" wide.

Carriage shed & stalls.

This building will have a tiled roof & will contain ^{accommodation for} 3 carriages & 4 stalls for horses. The carriage shed or coach house will be 26'3" x 12'0" & the stalls 31'1 1/2" x 12' each stall will be partitioned by a masonry wall 9" thick & raised 5 feet. The ridge will be carried on pillars & gables.

Tiffin rooms.

The building will be tiled & will contain 4 compartments, each measuring 10' x 8' & will be amply lighted by windows & a door.

Latrine

The latrine will contain 3 compartments, two compartments 13'6" x 10'1 1/2" & the third 8'6" x 10'1 1/2". The large compartment will contain 4 seats each, with a urinal & the small compartment 2 seats with a urinal, or 10 seats & 3 urinals in all, with the necessary

Rem. Block Treasury Dept. Clerk 20'0" x 18'0"
Clerks rooms two, each 4'4 1/2" x 18'0"
Store room for forms 21'0" x 8'3"
Stationary room — 21'0" x 8'3"
— 15' — 18'0" x 6'6"

with a verandah retiring room for the Deputy Collector & verandah all round 6'6" wide, inner dimensions.

Record room

This will be a single storied building & will contain English & Vernacular records with accommodation for the record keeper & copyist & will consist of the following rooms.

English records — { 44'0" x 20'0"
44'0" x 20'0"
38'6" x 20'0"

Vernacular records — { 44'0" x 20'0"
44'0" x 20'0"
38'6" x 20'0"

Record keeper & copyist 26'7 1/2" x 18'0"

with a verandah 6'6" wide on three sides of the Record keepers room.

The record rooms are to be fitted with racks, but no provision has been made in the estimate for them the Architect being under the impression that the racks ^{or chests} ~~are~~ under furniture, whereas they are treated as fixtures, vide page 2 Chap XI of the P.W. Code.

Press building

This building will be single storied & will contain 2 rooms each 30' x 20', with verandah all round 6'6" wide. The partition wall between the two rooms will be arched.

be the tower with staircases, this
room will measure 42' 4" square
& will contain two circular
stair cases, the outer or main
stair case will be 28' 4" in dia.
& the inner or sweepers stairs
11' 7" dia.

Main building, first floor.

West wing. Spare room for the
Divisional Officer 22' 9" x 22' 9"
Retiring room — 7' 9" x 8' 7½"
with side verandah 7' 10½" &
west verandah 8' 7½" wide.

East wing. Local Fund Engineer
room — 22' 9" x 22' 9"
Retiring room — 7' 9" x 8' 7½"

South wing. Collectors room 26' 3½" x 20' 9"
Impressed Asst. Collector's room 15' 3½" x 20' 9"
with two retiring rooms each, 9' 0" x 9' 0"
with front verandah 8 feet wide
& side verandahs 7' 10½" wide.

North wing. Personal Asst. room 26' 3½" x 20' 9"
Local Fund Engineer Draftsman 15' 3½" x 20' 9"
with ^{one} retiring room each, 9' 0" x 9' 0"
& rear verandah 8 feet with side
verandahs 7' 10½" wide.

Treasury & Deputy Collectors Office

This will be a single storied
building, built in two blocks
& will contain the following rooms
with a central longitudinal
passage 8 feet wide.

Police guard — 22' 0" x 18' 0"
Treasury — 42' 0" x 18' 0"
Counting room — 12' 0" x 18' 0"
Room for 5 shroffs & 4 goldbeats 22' 0" x 18' 0"
Treasurer — 12' 0" x 18' 0"
Accounts room — 10' 0" x 18' 0"

The designs & estimates have
been framed by the Consulting
Architect to Govt. in communica-
tion with the Collector of the District
after inspecting the proposed site
and the buildings proposed are
as follows:-

(a) Collectors Office, main building.

This building will consist of 2
floors with a tower in centre &
will contain the following accom-
modation:-

Basement floor.

West wing. District Munsifs

Court — 36' 0" x 22' 0"

District Munsifs retiring room 7' 0" x 8' 3"

Divisional Officers Establishment { 22' 0" x 22' 0"
13' 10½" x 8' 3"
with verandahs 7' 6" wide.

East wing. English Department 22' 0" x 22' 0"

Huzar Sheristadar — 22' 0" x 8' 3"

Revenue Department 22' 0" x 22' 0"

Magisterial Dept — 22' 0" x 12' 1½"
with front & rear verandahs 7' 6"
wide & side verandah 8' 0" wide.

South wing. L.F. Engineers Clerk 20' x 14' 6½"

Local Fund Engineers Accounts 20' x 14' 6½"

with a passage between the above
rooms 9' 6" wide & ^{with} side veran-
dahs 7' 6" wide. Two corner re-
-cord rooms, each 9' 0" x 9' 0" with

a front verandah 8' 0" wide
& a carriage porch 19' 3" x 16' 0"

North wing. Two rooms for the Dist.

Town's Presidents Establishment
each 20' 0" x 14' 6½" with a passage
between 9' 6" & side verandahs
7' 6" wide. Two corner rooms

similar to the south face, each
9' 0" x 9' 0" with a rear verandah
8 feet wide.

In the centre of these four wings, ^{there} will
be

T. Please calculate approximately how much ~~of~~ saving would be effected by substituting simple staircases for the tower. The hallways then be repaired by W to cost Rs 21/5

Dw
The cost of the tower as per estimate is Rs 15600
By substituting simple staircases in front & rear verandahs, as shown on plan, 3000
Saving by omitting tower 12600
Rs 28.12.55

No: 1705 W of 11 July 1895
Public Works Department.
Current No. 8944
Letter No. 4505 Min.
Dated 19th November 1895
From the Revenue Department

NOTE BY TECHNICAL SECTION.
Name of work Constructing Collector's Office at Tanjore.
Amount of estimate Rs 125800

The plans & estimates under review amounting to Rs 125800 have been framed with reference to G.O. No. 2355 W dated 13th Sept 1893 & provide for constructing the Collector's Office with subsidiary buildings at Tanjore.

The amount of the estimate is divided as follows:
Main building, Collector's Office Rs 67218
Treasury 24183
Record rooms 17261
Press building 7479
Lamp room 647
Waiting shed 1209
Coach house & stalls 1376
Tiffin room 1073
Latrine 1183
Gate, fencing & roads 4171
Contingencies 5%
Petty expenses 2 1/2%
Total estimate Rs 125800

Received 1895.
Board of Revenue
(Land Revenue),
MADRAS.

To
The Secretary to Govt.
R.S.



Recd 20 June
Proceedings, dated 17th June 1895, No. 6
Mis. Routine.

Subject.
Informing Govt. that it is immaterial whether the stair case tower to the collector's office is retained or dispensed with.

ms. 2/6
DTC

P. W. CURRENT No. 5294
5-6-95

Transferred to Mr. P.W.D.
H. H. H.
Secretary to Govt.
Dofacamaud }
27th June 1895
Encls 19 (14 plans)
Regd: 11.7.95

RS
24-6-95

175

3,000
3-5-59.



Proceedings of the Board of Revenue

(Land Revenue),

Dated 17th June 1895.

No. 3006 Mis. Routine.

Full Board.

READ C. O. Revenue Department dated 5th June 1895 No. 2247

Resolution dated 17th June 1895 No. 3006

Provided the office accommodation be in no way reduced the Board thinks it immaterial, from a revenue point of view, whether or not the stair case tower is retained as part of the design, or dispensed with.

2. That Board does not understand how the Chief Engineer proposes to utilize the space (42 ft x 42 ft) which is allotted to the tower in the design. It does not appear practicable (without a radical alteration of the plan) to occupy the space by merely shortening the two wings.

(True Extract)

To The Secretary to Govt. R.D.
with plans & encls. refd.

Recd
Ag. Secretary.

0 5,000-7-9-93.

CURRENT No. 8714

(1894.) 5250/55

REVENUE DEPARTMENT.

ABSTRACT.

Current Number. 82/2

From

The Board of Revenue
Land Revenue.

Encls: 19 (14 Plans)
Ores: 22-11-84

Dated 3rd November 1894

Received 6th Nov.

Enclosures 19.

No. 6055

SUBJECT.

Submitting for the sanction of Govt plan & estimate for constructing the Collector's office at Tanjore.

1895
REVENUE DEPARTMENT
Enclosure No. 4
No. 2555

Encl: No 4505 ind.

The plans and estimates are approved and will be transferred to the Public Works Dept.

Recd
under Secy to Govt.

For St George
19th Nov 1894.

To.
The Public Works Dept.
with 19 Encls.
a Board of Revenue, L.R.

For examination

23-11-94

Nov.
2 Nov 94

Please see the footnote in the
Explan marked as
enclosure No 10.

Secretary.

100



Proceedings of the Board of Revenue
(Land Revenue).

Dated 3. November, 1894.

No. 6055 Miscellaneous.

READ

Letter from J. Thomson Esquire, Secy. Collector of Tanjore, to the Secretary to the Commissioners of Land Revenue, Madras, dated 13. October 1894, No. 2554 rev.

Resolution dated 3rd Nov. 1894. No. 6055

The plans and estimates for constructing the Collector's office at Tanjore at an aggregate cost of Rs. 1,25,800 are submitted for the sanction of Government with reference to G.O. dated 13. September 1893, No. 2355 W., communicated with G.O. 23rd September 1893, No. 3505 Revenue.

2. With reference to para 3 of the Collector's letter read above the Board observes that the ground area of the Treasury

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt of {1895} Madras.
PUBLIC WORKS.

Dated July, 11th.

Recd.

Encl.

G.O., 11th July 1895, No. 1705 W.

JULY.

Public offices at Tanjore

Estimate of Rs. 1,25,800 for constructing
—, sanctioned with remarks.

Mis. No. 4505.

The plans and estimates are approved and will be transferred to the Public Works Department.

FORT ST. GEO: GE,
19th November 1894.

(Signed) R. C. C. CARR,
Under Secretary to Govt.

Memorandum in the Public Works Department, dated 2nd April 1895, No. 1384 C.

Proceedings of the Board of Revenue (Land Revenue), dated 17th June 1895,
Mis. No. 3006.

Read—G.O., dated 5th June 1895, No. 2247, Revenue.

Resolution—dated 17th June 1895, Mis. No. 3006.

Provided the office accommodation be in no way reduced, the Board thinks it immaterial, from a revenue point of view, whether or not the stair-case tower is retained as part of the design, or dispensed with.

2. The Board does not understand how the Chief Engineer proposes to utilize the space (42 feet $\times$ 42 feet) which is allotted to the tower in the design. It does not appear practicable (without a radical alteration of the plan) to occupy the space by merely shortening the two wings.

(True Extract.)

(Signed) R. C. C. CARR,
Acting Secretary.

Mis. No. 2554, Revenue.

Transferred to the Public Works Department.

OOTACAMUND,
27th June 1895.

(Signed) E. GIBSON,
Secretary to Government.

Note by the Chief Engineer, Public Works Department.

Submitted for the consideration and orders of Government.

2. The space occupied by the tower could be used in any way that might be considered desirable, but, on further consideration, the undersigned is of opinion that the injury to the architectural appearance of the building by the omission of the tower would be greater than the saving of cost would justify, and therefore recommends that the original design be adhered to.

3. No funds have been provided for the work in this year's budget, but any allotment that may be required can be made from the reserve.

OOTACAMUND,
2nd July 1895.

(Signed) J. PENNYCUICK, Colonel, R.E.,
Chief Engineer, P.W.D.

ORDER—dated 11th July 1895, No. 1705 W., Public Works.

The estimate amounting to Rs. 1,25,800, for constructing public offices at Tanjore, is sanctioned. Provision is made for the accommodation of Local Board establishments. The Superintending Engineer will report the amount of rent recoverable on this account and will apply for such funds as can be utilized on the building during the current official year.

2. This sanction has been registered as Provincial No. 40 W. of 1895-96, and classified as Civil Buildings, Original works.

(True Extract.)

Under Secy. to Govt., P.W.D.

To the Superintending Engineer, V Circle, with enclosures.
" Consulting Architect to Government.
" Examiner, Public Works Accounts.
" Revenue Department.
" Judicial Department.
" Local and Municipal Department.

Exd. T. K. Narayana Aiyangar.
Spare Copies

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

Proceedings of the Board of Revenue (Land Revenue), dated 3rd November 1894,
Mis. No. 6055.

Read—letter from the Acting Collector of Tanjore, dated 13th October 1894,
No. 2554-Ver.

Resolution—dated 3rd November 1894, Mis. No. 6055.

The plans and estimates for constructing the Collector's office at Tanjore at an aggregate cost of Rs. 1,25,800 are submitted for the sanction of Government with reference to G.O., dated 13th September 1893, No. 2355 W., communicated with G.O., 23rd September 1893, No. 3505, Revenue.

2. With reference to paragraph 3 of the Collector's letter read above, the Board observes that the ground area of the treasury strong room (plan No. 10) cannot be increased without an alteration of the entire design. The treasure boxes in the existing treasury are only from 3 to 4 feet high. They are old and not as secure as they should be. In the new treasury, when built, space may be economised by providing iron chests 9 or 10 feet high, with two inner shelves about one yard apart, and perpendicular doors opening outwards. The upper shelves can be easily reached with a step-ladder. One row of chests may run the entire length of the room resting against the inner wall, and a double row may occupy the centre of the room along its length. The stamp almyrahs can occupy the spaces between the windows. If this be done, the Board believes that the room will be adequate.

3. It does not approve the Architect's proposal that the treasure should be kept in masonry receptacles (presumably wells sunk in the floor), as the verification of balances kept in such wells would be difficult.

(True Extract.)

(Signed) L. M. WYNCH,
Secretary.

5294

Govt. of Madras.

PUBLIC WORKS.

2000 with receipt by Monday morning

Dated

Recd.

Encl.

O.O. 11. 17/ 1895, No. 17054

Public Offices at
Tanjore =
Estimate of Rs. 25,800
on Constructing —
sanctioned with
remarks. —

120
2

10/4/97

The following is a list of the
 names of the persons who
 were present at the meeting
 held at the residence of
 the Secretary on the 11th
 of the month of January
 1880.

B.W.

Draft submitted
 for approval
 per
 J.P.

The following is a list of the
 names of the persons who
 were present at the meeting
 held at the residence of
 the Secretary on the 11th
 of the month of January
 1880.

S.N.

To be forwarded to the
 Receiver? / Dept. with a
 note to the effect that the
 only object of the tower is
 to carry the staircase. If
 the tower be omitted and
 separate staircases constructed
 as shown in the plans attached
 the drawing the estimated
 net saving will be Rs 12600.

Cost Rs
 2995
 3

D.W.

Draft submitted
 for approval.

Rur
 29/3
 Ann
 29/3
 10

J. L. B. 11 5 1

$$R = \frac{19 \times 20 \times 12}{8 \times 10 \cdot 66} = 53.4 \text{ inches}$$

According to table a section of
 12" x 6" weighing 52 lbs will be
 sufficient against a section
 of 14" x 6" weighing 57 lbs as shown
 attached.

Abstract

Blocks.	As per estimate		As per calculation	
	Section	Weight per ft.	Section	Weight per ft.
Basement floor. fixed girders -	20" x 8"	95	12" x 6"	52
— D° ———— supported — do —	20" x 8"	95	15" x 6"	57
— D° ———— D° ————	20" x 8"	95	12" x 6"	52
First floor. ———— D° ————	20" x 8"	95	15" x 6"	57
— D° ———— D° ————	20" x 8"	95	15" x 6"	57
Treasury ———— D° ————	12" x 6"	54	12" x 6"	52
Record room ———— D° ————	15" x 6"	61	12" x 6"	52
— D° record keeper D° ————	12" x 6"	54	10" x 5"	41.5
Press building D° ————	14" x 6"	57	12" x 6"	52

~~Tho~~
 9.11.55

P.S. In no case the girders
 estimated are weak but
 on the other hand many of the
 girders are excessively too
 heavy. The girders required
 for the women & children hospital
 are proposed to be utilized for the same
 purpose.

3.

$$R = \frac{21 \times 20 \times 12}{8 \times 10.66} = 59 \text{ sq inches.}$$

According to table a section of 12" x 6" weighing 52 lbs per foot will be ample against the estimated provision of 15" x 6" weighing 61 lbs which is rather too heavy.

Record Keypers even

(Girders supported)

Tenon	18' x 8' 10 1/2" x 3/4" x 120 =	14,378
Joist	12 x 8' 10 1/2" x 3" x 6" x 46 =	612
Bolts	24 x 11" (1 1/2" dia.) .66 =	15
Nuts	24 x .14 =	3
Washers	12 x 9" (1 1/2" x 1/8") .63 =	6
Accidental load	18 x 8' 10 1/2" x 120 =	19,170

Total in lbs 34,184

Total in Tons 15.

$$R = \frac{15 \times 10 \times 12}{8 \times 10.66} = 38 \text{ sq inches}$$

According to table a section of 10" x 5" weighing 41.5 lbs will be ample against the estimated section of 12" x 6" weighing 54 lbs.

Peers office

(Supported girder)

Tenon	20 x 10 x 3/4 x 120 =	18,000
Joist	15 x 10 x 3" x 7" x 46 =	1,006
Bolts	30 x 10 1/2" x (1 1/2" dia.) .66 =	17
Nuts	30 x .14 =	4
Washers	15 x 9" x (1 1/2" x 1/8") .63 =	7
Accidental load	20 x 10 x 120 =	24,000

Total weight in lbs 43,034.

do in Tons 19.

According to table a section of 15" x 6" weighing 57 lbs per foot against a section of 20" x 8" weighing 95 lbs per ft as per estimate.

Treasury

Girders supported

Tenon	18 x 10' 0" x 9" x 120 =	17,820
Joist	11 x 11' 0" x 3" x 7 1/2" x 46 =	870
Bolts	22 x 1' 0" (1 1/2" dia.) .66 =	15
Nuts	22 x .14 =	3
Washers	11 x 9" (1 1/2" x 1/8") .63 =	5
Accidental load	18 x 11 x 120 =	23,760

Total weight in lbs 42,473

Total in Tons 19.

$$R = \frac{19 \times 18 \times 12}{8 \times 10.66} = 48 \text{ sq inches}$$

According to table a section of 12" x 6" weighing 52 lbs will suffice against the estimated section of 12" x 6" weighing 54 lbs. This girder section may be accepted as correct.

Record even

(Supported girder)

Tenon	20 x 11' x 9" x 120 =	14,800
Joist	13 x 11 x 3" x 7 1/2" x 46 =	1,028
Bolts	26 x 11" x (1 1/2" dia.) .66 =	15
Nuts	26 x .14 =	4
Washers	13 x 9" (1 1/2" x 1/8") .63 =	6
Accidental load	20 x 11 x 120 =	26,400

Total weight in lbs 47,253

Total weight in Tons 21

R =

according

2.
 of 12" x 6" weighing 52 lbs will be sufficient against the estimate provision of 20" x 6" weighing 95 lbs which is far in excess of the required section.

First floor

Local Fund by messrs & spare Dist. Office
 iron. Girders supported to not
 fixed.

Beams — 22' 9" x 11' 4 1/2" x 9" x 120 = 23,290
 Joists — 17 x 11' 4 1/2" x 3 1/2" x 7" x 46 = 1405
 Bolts — 34 x 1' 0" (1 1/2" dia.) .66 = 22 8
 Nuts — 34 x .14 = 5 2
 Washers — 17 x 10 1/2" (1 1/2" x 1/8") .63 = 9 5
 Accidental load 22' 9" x 11' 4 1/2" x 120 = 31,054 3
 Total weight in lbs — 55,785 0
 Total weight in Tons — 25. 4

$$R = \frac{25 \times 22.75 \times 12^3}{8 \times 10.66} = 80.03 \text{ sq inches}$$

According to Table a section of 15" x 6" weighing 57 lbs will be ample against the estimate provision of 20" x 8" weighing 95 lbs which is rather too heavy.

First floor

Chimney & Personal assets rooms

Supported girders

Beams — 20' 9" x 13' 1 1/4" x 9" x 120 = 24,550
 Joists — 15 x 13' 1 1/4" x 3 1/2" x 9" x 46 = 1,984
 Bolts — 30 x 1' 0" (1 1/2" dia.) .66 = 20
 Nuts — 30 x .14 = 4
 Washers — 15 x 10 1/2" (1 1/2" x 1/8") .63 = 8
 Accidental load 20' 9" x 13' 1 1/4" x 120 = 32,733
 Total weight in lbs — 59,299
 Total in Tons — 26. 4

For Rev. Ball & Co.

per Rpts. against the estimate provision of 20" x 8" weighing 95 lbs per ft which is unnecessarily heavy.

Revenue Dept. room.

Supported girders.

Weight on beam.

Beams — 22' x 11' x 9" x 120 = 21,780
 Joists — 16 x 11 x 3" x 7" x 46 = 1,181
 Iron bolts — 32 x 1' 0" (1 1/2" dia.) .66 = 21
 Nuts — 32 x .14 = 4
 Washers — 16 x 10 1/2" (1 1/2" x 1/8") .63 = 9
 Accidental load 22 x 11 x 120 = 29,040

Total weight in lbs — 52,035

Total Tons 26.

$$R = \frac{26 \times 22 \times 12^3}{8 \times 10.66} = 80 \text{ Lfr.}$$

According to Table a section of 15" x 6" weighing 57 lbs per ft against the estimate provision of 20" x 8" weighing 95 lbs which is far in excess of requirement.

Dist. Magistrate's Court

Supported girders

Beams — 22' x 8' 10 1/2" x 9" x 120 = 17,573
 Joists — 16 x 8' 10 1/2" x 3" x 6" x 46 = 817
 Iron bolts — 32 x 1' 0" (1 1/2" dia.) .66 = 21
 Washers — 16 x 10 1/2" (1 1/2" x 1/8") .63 = 9
 Nuts — 32 x .14 = 4
 Accidental load 22 x 8' 10 1/2" x 120 = 23,430

Total weight in lbs — 41,854

Total — do — in Tons 19.

$$R = \frac{19 \times 22 \times 12^3}{8 \times 10.66} = 59 \text{ sq inches}$$

According to Table a section of

Collector's Office at Tanjore

Calculations on the strength
of several rolled steel girders
provided in the estimate

Girders fixed at both ends. Basement for

English Dept. & Divisional Office Solat.

Weight in Tons on the whole span

Tenace - $22'0" \times 11'0" \times 0'9" \times 120 = 21,780$

Joists - $16 \times 11'0" \times 3" \times 7" \times 46 = 11,81$

Iron bolts $32 \times 1'0" (\frac{1}{2} \text{ dia.}) \times 0'66 = 21$

- do. nuts $32 \times 0'14 = 4$

- do. washer $16 \times 0'10\frac{1}{2}" \times (1\frac{1}{2} \times \frac{1}{8}) \times 63 = 9$

Live load. $22'0" \times 11'0" \times 165 = 39,930$

Total weight in Tons 62,925

- do in Tons 28.

R = moments of resistance in Sq inches

W = load in Tons on the whole span.

L = clear span in inches

K = Coefficient of safety = $\frac{32 \text{ Tons}}{3} = 10.66$

C₀ = Constant proportion of one span
= one of load to another, ~~there~~ ^{thus}

for fixed girders at both ends
& uniformly loaded, the constant
is 12. & for supported girders
& uniformly loaded, the constant
is 8.

Then $R = \frac{W \cdot L}{C_0 \cdot K}$

& according to the above $R = \frac{28 \times 22 \times 12}{12 \times 10.66} =$

$= 58$ square inches & according

to table of Messrs. Dorman Long & Co.

a section of 12" x 6" weighing 52 lbs

For Rev. Dept. Engrs.

of 2 May 95

1308

SAW

9-5-95

Please send the
file of No. 1384 C of 2 Apr 95
and information as to how
the "doubt" referred to
therein has arisen -

N.B.

2 May 95

CAW

Papers forwarded
herewith.

You will see that the
clause about the "doubt"
was added to memo No.
1384 C in W's own
hand. We have no
information in the office
on the subject, but it is
understood that there
was some discussion
on the subject in the
Legislative Council.

Cu

4-5-95

W

Submitted for orders
with reference to the inquiry
in the Revenue Dept. (linked
file).

Cu

6-5-95

20W

3828
14'6 95

Cm 2434

For orders -

The reply to the
C.A's question is dependent
on whether the proposed
new office for the Collector
of Tanjore is likely
to be constructed -

Cm

10/6/45

See 5th C.A. n

1705W

10

W

05/175

Rev. Dept. Enclh.

No. 2554 of 27 June 95

For orders in regard to the Board's remark as to the disposal of the space occupied by the tower.

The estimates can now be sanctioned. There is no budget provision for the work, but funds can be allotted from the Reserve on the S. E. reporting the amount that can be spent during the year.

R. F.

2 July 95

W. E. K.

Submitted for the consideration and ruling of the committee;

The space occupied by the tower could be used in any way that might be considered desirable, but on further

consideration the original design is of
minor that the original
of the building would of the
origin of the town would
be greater than the
of cost would justify, and
therefore remains that the
original design is retained
2-

No funds have been provided
for the work in this year
Project, but any allotment
that may be required can be
made from the same -

S 96
J.O.

Attention is directed to
that the 2nd allotment in the
can be paid during the
current year -

S 27

Civil Works
Amalgamated
186