

(1) Number of pages _____

(2) Date of repair _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	2073	Press
B.P. No.		Mis.
Dated	30-7-	4874 195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
30th July 1874.*

Read the following letters :—

No. 697. From A. C. LAWFORD, Esq., Officiating District Engineer, South Canara, to Colonel G. W. WALKER, R.E., Chief Engineer, Public Works Department, dated Mangalore, 8th June 1874, No. 35.

THE estimate, amounting to Rupees 12,000, for improvements to the District Court-house at Mangalore was sanctioned in G. O., No. 138, of 17th February 1874, subject to revision by the Inspecting Engineer for Buildings regarding the details of the plan and estimate. The Inspecting Engineer modified the item of trusses, and has called for a corrected estimate, which is under preparation. But Inspecting Engineers' Offices having been abolished, as communicated in G. O., No. 1,328, of 18th May 1874, I have the honor to request you will be so good as to inform me whether I am now at liberty to carry out the work according to the Inspecting Engineer's instructions already received without submitting another estimate, and if not to whom I shall submit it, whether to you or the Superintending Engineer of the 4th Division.

2. I beg also to know whether the extract from progress reports hitherto supplied to Inspecting Engineers are to be submitted to you for the future.

No. 698. From the same Officer, dated Mangalore, 20th June 1874, No. 40.

In reply to your memorandum, No. 435, of 15th instant, directing the sub-

1 Detailed Estimate.
1 Abstract do.
1 Specification.
1 Design of Truss.

mission of the estimate for the improvements to the Court-house at Mangalore, with a full report on the modification made by the late Inspecting Engineer.

I have the honor to submit, herewith, the estimate in question amounting to Rupees 13,700, and to state that in his letter, No. 672, of 14th May 1874, the

Also letter No. 486, of 25th March 1874. Inspecting Engineer informing me that the iron trusses were not approved, requested a design for a queen post truss, the scantlings of the timbers of which as now fixed have been accepted by him in his later communication, No. 734, of 22nd May 1874. Colonel Foord having also suggested that the clerestory windows should be 4 feet in length in lieu of 6 feet, the necessary correction has been made.

2. There is however a modification of my own, of which he is not aware as he relinquished the appointment of Inspecting Engineer for this District before the corrected estimate was ready, viz., the substitution of wrought iron braces for the auxiliary beams.

3. I therefore submit a design of the proposed truss for your consideration, the auxiliary beams being shown by dotted lines. The braces are as effective as these auxiliary beams, and give a lighter appearance to the truss.

4. I do not propose to take any step in the preparation of the truss until you intimate your decision on the point.

*Proceedings of the Madras Government, Public Works Department,
30th July 1874.*

5. The plan does not accompany the estimate never having been returned to me since its submission with the estimate through the District Judge with No. 165, dated 5th January 1874, to his address.

1 old Detailed Estimate.
1 old Abstract do.
1 old Specification.
1 Plan of Truss.

6. The estimate, specification, and plan of truss received with the Inspecting Engineer's letter, No. 762, of 14th May 1874, are herewith returned.

No. 699.

ORDER THEREON, 30th July 1874, No. 2,073.

CIVIL WORKS, No. 49.

In their Order of the 17th February 1874, No. 138, the Government directed that the details of the plan and estimate furnished by the District Engineer, South Canara, for the renovation of the Court-house at Mangalore should be revised by the Inspecting Engineer for Buildings. That officer accordingly modified the design originally submitted so far as regarded the roof, substituting wooden queen post trusses for iron trusses, and the District Engineer now submits a revised estimate amounting to Rupees 13,700, embodying the alteration referred to, but substituting in the design of the new truss iron braces instead of the ordinary auxiliary rafters.

2. The former estimate was for Rupees 12,000, but the District Engineer subsequently reported that he had under-estimated the cost of the iron trusses by Rupees 1,848. The Government are of opinion that, as work of this character is not well understood by workmen in that locality, the expenditure would probably be even larger than that officer finally allowed, and they consider the modification introduced by the Inspecting Engineer judicious, nor do they approve of the alteration in detail of the wooden truss suggested by Mr. Lawford, the auxiliary rafters of which should be retained.

3. Subject to the above remark, the revised plans are approved of and the estimate is sanctioned.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineers, South Canara.

„ Judicial Department.

„ Officiating Controller of Public Works Accounts.

Ed. E. C. Shunker.

Spare Copies

Govt. of 1874 Madras
PUBLIC WORKS.

To
THE DISTRICT ENGINEER, SOUTH
CANAL

Dated July 30th.

Read. Encl.

G. O. 30th July 1874, No. 2,073.

JULY.
Nos. 697-699

Court-house at Mangalore, South
Canara District.—The revised plans &
carrying out certain improvements to the
Court-house, approved with remarks, &
the estimate amounting to Rupees 13,76
enacted.

No. 40

District Engineer's Office
South Canara
Mangalore. 20th June 1874.

Encl.

A. C. Sanford Esq
Off District Engineer
Canara

Colonel G. M. Walker R. E.
Chief Engineer D. P. S.
Chandras

Sir,
In reply to your Memo No 435 of
15th inst. directing the submission of
the Estimate for the improvements to
the Court House at Mangalore with
a full report on the modification made
by the late District Engineer, I have
the honor to submit herewith the Estimate
in question amounting to Rs 13,700, and
to state, that in the letter No 432 of
14th May 1874 the District Engineer informing
me, that the Iron Engraves were not
approved, requested a design for a Cast
Iron Engrave, the saw cuttings of the timbers
of which are now fixed have been
accepted by him in his letter, com-
munication No 434 of 20th May 1874.

also letter
No 436 of 25th March
1874.

Colonel Ford having also suggested that
the clearest & lightest should be
1/2 inch in length in lieu of 6 feet
the necessary correction has been
made.

2. There is however a modification
of my own, of which he is not aware, as
he relinquished the appointment of Insp.
Engineer for the District, before the correct-
ed estimate was ready, viz: the substitution
of wrought iron braces for the
auxiliary beams.

3. I therefore submit a design
of the proposed braces for your considera-
tion, the auxiliary beams being shown
by dotted lines. The braces are as
effective as these auxiliary beams and
give a lighter appearance to the bridge.

4. I do not propose to take
any step in the preparation of the bridge,
until you intimate your decision on
the point.

5. The plan does not seem
being the estimate never having been
returned to me since its submission
with

with the estimate through the District
Judge with N^o 165 dated 5th January 1874,
his address—

6. The estimate, specification & plan
of the bridge received with the Insp. Eng.
office letter N^o 762 of 11th May 1874 are here-
with returned.

I have the honor to be,
Sir,
your most obedt Servt.

Al Larpus
Offg District Engineer
C. Janas

20/6/98
 Mr. J. H. J. J. J. J.

Subscribing Estimate
 for improvements to
 the Court House at
 Mangalore with a
 addition in the new
 building made by the
 late J. H. J. J. J.

Q. A. H. 2073-50-2-10
 27/5/98

The Chief Engineer
 Mangalore

The Chief Engineer
 Mangalore

S. M. 15th Sept
 No. 3908

Detailed Estimate No. 44 of 1874-75
 South Canara District
 Work—Improvements to the District Court
 House at Mangalore

Detail of work	Measurements				Total
	No.	Length	Breadth	Height	
Foundation to 6 pillars of new wall of Judges Court	6	4	4	4	384
do to intermediate arcade wall	5	5	2 1/2	3	187 1/2
End portions allowing for existing foundation of old wall	1	3	2 1/2	3	22 1/2
Base of Pillars	6	3 1/2	3 1/2	2	147
do to intermediate arcade wall	5	5 1/2	2	2	110
End portions allowing for existing base	1	3	2	2	12
Foundation to central wall dividing clerk's records	1	24	2 1/2	4	440
do to base	1	44	2	2	176
do to new wall of Treasury	1	12	2 1/2	4	120
Base to do	1	12	2	2	48
Foundation to pillars in arcade wall in record room	6	4	4	4	384
do to intermediate arcade wall	5	5	2 1/2	3	187 1/2
End portions	1	3 1/2	2 1/2	4	45
Base to pillars	6	3 1/2	3 1/2	2	147
do to intermediate arcade wall	5	5 1/2	2	2	110
End portions	1	3	2	2	28
do to end portions	1	2	2	2	8
Foundation to 2 pillars in clerk's room	2	4	4	4	128
Base to do	2	3 1/2	5/8	2	49
Carried over.					

Plaster in outer wall above lower roof
 around skylight and at gables 445 . . . 445
 Ceiling under common rafters with
 boards to the entire roof inside } 2 57 22 1/2 . . . 257 1/2
 } 1 44 22 1/2 . . . 44 22 1/2
 } 2 14 12 1/2 . . . 14 12 1/2

Plaster (unglazed work) Total ceiling square 57

Ridge pole
 Plate plates
 Hip rafters to veranda roof
 Wall plates for veranda rafters beam
 Do over veranda wall
 Edge piece in parties

Plaster (unglazed work) Total unglazed work 44

E. Room
 Queen posts
 Posts
 Do

Straining sill
 Principal rafters
 Straining beam
 Wall plates
 Brackets supporting parties
 Heads of hip posts

Total unglazed work 57
 Iron work
 Shape at foot of queen post
 Do at end of straining beam

Carried over 3.44

Brought over 3.44
 Shape at end of tie beam 2 12 3 1/2 . . . 2 12 3 1/2
 Total 5.66

11 bolts per foot 2 inch thick
 11 top of Queen posts 6 x 6 at 10 lbs per foot 1 inch
 Iron post 2" dia and 6 ft long at 1 lb per foot
 4 do for braces 3" dia and 6 ft long at 1 lb per foot
 Total 11 of the of iron work for use trap
 Do for 12 do

Painting
 Painting existing doors and windows
 including iron bars

Total painting 2560

Composite flooring
 E. Room including base

Total Composite flooring 1975
 Glazed clerestory windows with fittings 26
 Doors to base
 Iron barred frames for windows of second
 room

3 wrought iron girders to parties 3 18 . . . 54
 Total wrought iron girders 54

Pitlock box on rollers
 Rolling to do with gate
 Granite key stone to clerestory windows 26 12 12 1/2 57 1/2
 Granite bounding plates 17 2 12 1/2 76 1/2

Total Cost of Granite 134
 Sheet zinc in valleys to parties roof 2 17 2 1/2 . . . 50
 Zinc gutters for main roof 2 122 12 . . . 244
 Zinc pipes at end 4 1 5 32 172

Total of sheet galvanized zinc 443
 Large Round at Gables 2 15 . . . 30
 Total Large Round 30

It is therefore proposed to improve the building by altering the dispositions of the different rooms as

San Light & Gables
Medaling

P.W. Dept.
South Canara District

Detailed
Estimate No. 114 of 1874-75

Work. Improvements
to the District Court
House at Mangalore.

Mr. 3908/74
5

P.G. 7 30 July 1874
In No. 645.

Specification & Report to accompany
Estimate for Improvements to the Dist.
Court House at Mangalore.

The Court House at Mangalore
is a large rectangular block comprising
the Court 57 x 35, a Record Room 57 x 30 1/2
Treasury 12 x 16 1/2 and Clerk's room 16 1/2 x 16 1/2.

The original verandah 12 feet in
breadth appears at some time or other
to have been enclosed and converted
into additional accommodation for the
Record and Clerk the Judges private
Room and Magazine Court.

In its present state considerable
repairs and improvements are required,
the roof is in a decayed and dangerous
state, urgently requiring renewal. The ac-
commodation is inconveniently dis-
tributed, a large area being lost by an
useless passage.

It is therefore proposed to im-
prove the building by altering the
dispositions of the different rooms

as shown in the drawings the dotted
lines indicating walls to be removed
and the yellow, new walls to be built.

The Court Room is particularly
inconvenient being blocked up by
a heavy arched wall which has
probably been found necessary to
support the roof.

The proposed improvements
are—

1. Removing arched wall in centre
of Court and rebuilding main wall
in order that the trusses may rest
on solid walls and not over arches.
By the measure and the use of oak
wood Queen post trusses of 50 feet
clear span a large clear Court space
will be provided.

2. Removing a central wall to
divide the clerk & Record Rooms
and building an arched air wall
in the Record Room (both colored yellow)
the arrangement will give a large
clear

clear space for the clerk's Room for the
records communicating with each other
by archway. This will
also give more light to the clerk
and Record Rooms by raising the principal
and side walls of main building
5 feet and fixing clerestory windows,
by the means good ventilation to the
Court Room will also be provided.

4. Substituting a light roof of
machine tiles supported by timbered
Queen post trusses in lieu of the present
heavy post trusses.

5. Building a new portico.
6. Providing a passage way for the
judges and proper access for a public
7. Providing a private room for the judge
with retiring room.

— If these improvements are car-
ried out the Court House will present
an appearance more in accordance with
a Public Building than that of the
present structure (vide elevation).
Dawson— The foundations of pillars

of rounded walls between the Corn and
Round Room shall be 4 feet broad
and 4 feet deep, of the intermediate
walls $2\frac{1}{2}$ feet broad and 3 feet deep,
of the dividing walls $2\frac{1}{2}$ feet broad
and 4 feet deep. The foundations of
pilasters shall be 2 feet broad and
4 feet deep.

The basement of pillars of ar-
ched walls shall be $3\frac{1}{2}$ feet broad
and 2 feet high of the dividing wall
2 feet broad, and 2 feet high perfect-
ly and of the pilasters 10 feet
broad and 2 feet high perfectly.

The pillars above the arched
walls shall be 10 feet broad and
20 feet high, the intermediate walls 10 ft
broad, and 20 feet high, the pilasters
2 feet broad and 20 feet high.

The archway in these walls
shall be 8 feet high up to springing
and 6 feet broad, the arch semicircular
of 8 feet span.

The pilasters shall be carefully built
with bondings into the old walls at inter-
vals of 8 feet and when brought to a
level with the top of them a bond plate
of granite shall be placed on which
the new portions of feet in height shall
be raised. All the old walls of the
main building shall be raised 2 feet
the total height being 2 feet instead
of 18 feet as at present. All the above
work shall be of latite in chimney of
the best quality.

Plastering The inside of the Corn and the new
walls shall be plastered with one coat
of plaster and two of white wash. All
the old walls shall be left untouched.
The outside of the walls outside shall be
plastered with one coat of plaster and two
coats of red wash. The wash shall be
colored with red ochre to the color of
Latite stone.

Roofing The roof shall be of single
common rafters, rafter and machine
tiles. The rafters shall be 6 x 8 placed
 $2\frac{1}{2}$ feet apart from center to center.

The papers 24" placed 12" apart to suit machine this. The eastern and papers shall be coated with coats of wood oil.

On the underside of the common rafters a boarded ceiling shall be attached to mitigate the heat which shall also be coated with wood oil on the lower surface.

The tiles shall be turned on the
outer surface the building being ex-
posed to the monsoon winds.

The roof shall be supported
on 12. teakwood square posts
placed 9 feet apart from centres
to centre except the two at the ends
which shall be 8 1/2 feet from facing
wall of the pattern chamber in
line; the pitch of the roof shall be 1/2
span or thereabouts.

The ridge pole shall be 19 feet
long and 6" x 8". The futings 19 feet long
and 6" x 8". All wood work shall be of
good seasoned pine wood free from knots
or flaws of any kind.

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Particulars of Work No. 1 B. R. Condit

Foundation to 6 Pillars of new wall of	6	4	4	4	384
do Judge Court					
do to intermediate Creaded wall	5	5	2 1/2	3	187 1/2
End portions allowing for existing found.	1	3	2 1/2	3	22 1/2
value of old wall					
Basement of 6 Pillars	6	3 1/2	3 1/2	2	147
do to intermediate Creaded wall	5	5 1/2	2	2	110
do end portions allowing for existing	1	3	2	2	12
basement					
Foundation to Central wall driving	1	4 1/4	2 1/2	4	140
do Clerk Records					
do Basement	1	4 1/4	2	2	170
Foundation to new wall of Treasury	1	12	2 1/4	4	120
Basement to do	1	12	2	2	48
Foundation to 6 Pillars in Creaded	6	4	4	4	384
wall in record room					
do to intermediate Creaded wall	5	5	2 1/2	3	187 1/2
do end portions	1	6 1/2	2 1/2	4	85
Basement to 6 Pillars	6	3 1/2	3 1/2	2	147
do to intermediate Creaded wall	5	5 1/2	2	2	110
do end portions	1	7	2	2	28
Foundation to 2 Pillars in Clerk's	2	4	4	4	128
Room					
Basement to do in do	2	3 1/2	3 1/2	2	49
Carried over					2788 1/2

Brought over				2768 1/2
Foundation to intermediate creased wall	2	5	2 1/2	75
Basement to do	2	5 1/2	2	44
Foundation to all pilasters	5	1 1/2	1 1/2	15
	13	3	2	312
Basement to do	2	1 1/2	1 1/2	6 1/4
	3	1 1/4	1 1/4	11 1/10
	5	2 1/2	1 1/4	16 3/8
	8	1 1/4	1 1/4	25
Wall above Court room pillars	6	3	2	25 828
Intermediate creased wall	5	7	1 1/2	23 125 1/2
End portions	2	5	1 1/2	33 318
Wall above to record room pillars	6	3	2	22 798
Intermediate creased wall	5	7	1 1/2	22 1155
End portions	1	7 1/2	1 1/2	22 217 1/2
Blocking existing Storey windows	1	2 1/2	1 1/2	23 86 1/4
Do doorway to stairs	1	2	1 1/2	9
Two pillars to Clerk room	2	3	2	22 264
Intermediate creased wall	2	7	1 1/2	22 462
	5	1 1/2	1	5 1/2 11 1/2
	3	2	1	22 132
Plaster above	10	2	1	23 460
	2	1	1	23 46
	3	1	1	22 66
Central partition wall between Clerk's records	1	4 1/2	1 1/2	20 1320
Do to upper portion	1	4 1/2	1	11 616
Treasury wall	1	12	1 1/2	34 612
Blocking up passage at Treasury	1	6	1 1/2	27 243
Blocking up doors to Clerk room	1	6	1 1/2	8 72
Raising main walls all round	1	38	1 1/2	5 2310
Gables	2	38	1 1/2	6 1026
Carried over				15712 1/8

Brought over				15712 1/8
Foundation to Pillars of Portico	4	4 1/2	3	192
Basement to do	4	3 1/2	2	72
Columns	4	18	1	72
Freeze	1	18	1	36
Substation	1	18	1 1/2	27
Foundation to Dais	1	28	2 1/2	72
Basement to do	1	24	1 1/2	36
Flooring to Dais	1	9	9 3/4	80 1/4
Deep wall between Court & record room	1	35 1/2	5	262 1/2
Total to Clerk's room				16590 5/8
Deductions				
Notways in Court room wall	5	6 1/2	6	270
	5	14 1/4	1 1/2	106
Do to record room	5	6 1/2	6	270
	5	14 1/4	1 1/2	106
Do to Clerk's room	2	6 1/2	6	108
	2	14 1/4	1 1/2	122 1/2
Storey windows	2	6 1/2	1 1/2	438 1/4
Sanlights in gables	2	7 1/2	1 1/2	36
Arch work	5	11 1/8	1 1/2	122 5/8
to Record room	5	11 1/8	1 1/2	122 5/8
to Judge Court	2	4 7/8	1 1/2	53
to Clerk's room	3	10 9/16	1 1/2	74
Sanlights	18	7 1/2	1 1/2	315 9/16
Storey windows	26	7	1 1/2	129 5/8
Total deductions				2495 1/2
Net balance in Chamber of				14616 1/8
Total Arch work & plaster above deductions				1117 5/8
Plastering Interior	1	18 1/4	23	423 1/2
Inside Court	5	2 1/2	1 1/2	18 1/4
Sides & soffits of Arches	2	35	6	420
Gables of Court inside				1815 1/4
Carried over				15712 1/8

Brought over				4813 1/4
Outside of new wall to Court Room	1	57	22	125 1/4
Ends of pilasters	8	2	22	26 1/4
Do front side	12	12	22	69
Blocked doorway to Clerk Room	2	6	8	96
Pilasters to opposite wall of Court	7	1	22	81 1/4
Arched wall to record room	2	5 1/2	22 1/2	258 1/2
Ends & soffits of Arches	5	2 1/2	12	161 1/4
Ends of pilasters	8	1 1/2	22	59 1/4
Blocked passage	2	6	27	32 1/4
Central partition wall	2	4 1/4	35	308 0
Encasings	2	12	35	81 0
Pillars to Clerk Room	2	3 1/2	23	161
	2	1 1/2	22 1/2	67 1/2
	2	5 1/2	22	242
Pilasters	2	4	22	26 1/4
	5	2	1 1/2	165
	5	5	5 1/2	137 1/2
Gables inside	2	35	6	120
Upper walk to Clerk Room	2	15 0	5	75 0
Corp wall between Court & record room	2	35	5	350
Reduction	Total			1725 1/4
Archway to new wall of Court	10	6	6	360
	10		area	14 1/4
Do to record room	10	6	6	360
	10		area	14 1/4
Do to Clerk Room	4	6	6	144
	4		area	14 1/4
Cherestory windows inside	26	6	1 1/8	292 1/2
San lights	14		area	58
Total deductions				1659 1/4
Net interior plastering with 1 coat & whitewashing				1566 1/4

Windows. The trapes shall rest in eastward wall plates & put in length.

Cherestory windows 26 cherestory windows to be fixed, glazed and rise in centre shall be fixed, glazed and painted in the frames with all proper fittings as ropes & chains for opening and shutting.

Archway Segmental archway shall be built over the door with a granite keystone in the centre & projecting 8" from face of wall.

San lights Two glazed fan lights 3 ft in diameter shall be fixed in the gables of the end walk of building.

The existing doors and window doors shall all be painted with 2 coats of Carsons paint of oak, Portland stone colour or chocolate.

A cornice shall be run round the outside of the building at the top of the lower roof to prevent leakage at the junction of roof with wall also along gable outside.

A new partition shall be built to the entrance as shown in elevation.

The support for the entrance and entablature a
 wrought iron girder shall be fixed for
 the architrave.
 A raised dais with railing
 shall be provided for the judge and all
 proper necessities. The Court has witness
 box, prisoner bar &c.
 The windows to the record room
 shall be provided with iron barred frames
 in addition to the existing glazing shutters.
 The floor of the Court shall be
 laid with coal tar composition of the
 following proportions 1 part of tar
 3 parts of lime 4 parts of sand in lieu of
 the present bitumens & jelly flooring.
 Zinc gutters shall be fixed
 to the eaves of the upper roof and barge
 boards to the eaves of the gables.

Dist Engineer's office
 J. J. Canara
 Mangalore 20 June 1873
 Off. Dist. Engineer
 J. Canara

Exterior			
All round upper portion	1	31 1/2	1113
do lower	1	122	10 1220
Parapet	1	124	2 848
Plaster	1	32	2 64
Gables	2	38	6 156
Truss to Portico	1	18	4 72
Entablature	2	78	3 308
Columns (allowing for Capitals)	4	6	10 240
Pedestals	16	3	2 96
Total			7517
Decorative windows outside	26	8	1 76 292 1/2
Light outside	2	1 1/2	3 29
Total decoration			295 1/2
Worked plastering & gipses			
Roofing			
Upper portion	2	122 25/2	6222
Lower do	2	135 17/2	4725
End	2	54 17/2	1890
Portico	2	23 20	940
Total roofing			13777
Reduced from lower portion	1	9 17/2	157 1/2
Total roofing & gables			13619 1/2
Flooring			
Flooring under Arches	12	6	1 1/2 108
do at Pillars	2	6	2 24
Total flooring			132
Decorative in outer wall above lower roof	445		145
around fan light & at Gables			
Carried over			

Brought over
 Ceiling
 Ceiling under common rafters with
 boards to the entire roof inside

2	57	22 1/2	2565
1	44	22 1/2	990
2	14 1/2	15	3435
2	65	15	1950

Total Ceiling Sqr. 8940

Wood ceiling for
 Woodwork

2	57	22 1/2	2565
1	44	22 1/2	990
2	14 1/2	15	3435
2	65	15	1950

Total wood ceiling Sqr. 8940

Parlour
 Ridge pole
 Wall plates

5	119	6 1/2	8
8	119	7	158 1/2
1	119	7	25 1/2
2	119	7	39 1/2

Total Woodwork Cft. 201.6

Painting
 Painting existing doors & windows in-
 cluding iron bars

1	area	2560
---	------	------

Total painting Sqr. 2560

Composite flooring
 to porch including drains

1	67	35	1995
---	----	----	------

Placed clerestory window with fittings
 door to drain
 Iron framed frames to windows of room

25		25
1		1

3 Wrought iron girders to Portico
 Artillery box on rollers
 Railing to do with gate

3	18	54
1		1
27		27

Granite bed plates to Sumpes
 Granite key stones to Clerestory windows
 Granite bounding plates

24	2	1 1/2	36
26	1 1/2	1 1/2	37 1/2
17	2	1 1/2	76 1/2

Total Cft of Granite 218 1/4

Sheet zinc in valleys to portico
 Zinc gutters for main roof
 Zinc pipes at ends

2	17	2 1/2	85
2	122	1 1/2	366
4	15	32	192

Total Cft of galvanized zinc 643

Large Board at Gables
 Total Rpk large boards
 Excavating foundation Cypresses
 Dismantling existing masonry Cft.
 Roofing including tiles Sqr.
 Woodwork Cft.

2	45	90
		90
		105
		7150
		12323
		293

District Engineer's office
 Canara
 Mangalore 8th Dec 1873

W. Lawton
 District Engineer
 Canara

District Court
 South Canara
 6th January 1874

Admission
 District Judge

10/10/19

529
 2000-74
 5/13
 10/15/74

529
Dec 20 1877
Specification Report to accompany
Estimate for Improvements to
the Court House at Mangalore

The Court House at Memphis
is a large rectangular block, comprising
the Court 57' x 35', a Record Room
57½' x 30½', Treasury 12' x 16¾', and
Clerk's Room 44' x 16¾' -

The original parchment 12 feet
in breadth, appears at some times or
other to have been enclosed and
converted into additional room
relation for the Records and Clerk,
the Judge's private Room and
Magis' Court -

In its present state considerable repairs and improvements are required; the roof is in a decayed and dangerous state, urgently requiring renewal; the accommodation is uneconomically distributed, a large area being lost by an useless passage. — It is therefore proposed to improve

improve the building by altering the disposition of the different rooms as shown in the drawings, the dotted lines indicating walls to be removed, and the yellow, new walls to be built.

The Court Room is particularly inconvenient being blocked up by a heavy arched wall, which has probably been found necessary to support the roof.

The proposed improvements are:-

1. Removing arched wall in centre of Court, and rebuilding main wall in order that the trusses may rest on solid walls and not over arches. By this measure, and the use of iron trusses of 35 feet clear span, a large clear Court 57' x 35' will be provided.

2. Renewing a central wall to divide the Clerk's & Record Rooms, and building an arched main wall in the Record Room (both colored yellow) - This arrangement

will give a large clear room for the Clerks, and two for the records communicating with each other by archways.

3. To give more light to the Clerk and Record Rooms by raising the principal & cross walls of main building 5 feet, and fixing clerestory windows; by this means good ventilation to the Court Room will also be provided.

4. Substituting a light roof of machine tiles supported by iron trusses in lieu of the present roof, iron work being more suitable to this climate in which wood rapidly decays.

5. Building a new portico.

6. Providing a raised dais for the Judge & proper accommodation for a Court.

7. Providing a private room for the Judge with retiring room.

If these improvements are carried out, the Court House will

will present an appearance more
in accordance with a Public Building
than that of the present structure;
(vide elevation)

The foundations of pillars of ~~Masonry~~
of arched walls both of
Court and Second Store shall
be 4 feet broad, and 4 feet
deep; of the intermediate walls
2 1/2 feet broad, and 3 feet deep;
of the dividing walls 2 1/2 feet broad,
and 4 feet deep - The foundations
of pilasters shall be 2 feet
broad, and 4 feet deep -

The basement of pillars of
arched walls shall be 3 1/2 feet
broad, and 2 feet high; of
the dividing wall 2 feet broad,
and 2 1/3 feet high ~~and of the~~
pilasters 1 1/4 feet broad and
2 1/3 feet high respectively -

The pillars above of the
arched walls shall be 1 1/2 feet
broad

broad, and 23 feet high, the intermediate
walls 1 1/2 feet broad, and 23 feet
high, the pilaster 2 feet broad,
and 23 feet high - The archways
in these walls shall be 6 feet
high up to springing, and 6 feet
broad, the arch, semicircular of
6 feet span -

The pilasters shall be carefully
built with bondings into the old
walls at intervals of 3 feet,
and when brought to a level
with the top of these, a band
plate of granite shall be
placed on which the new portion
5 feet in height shall be raised -
All the old walls of the main
building shall be raised 5 feet,
the total height being 23 feet
instead of 18 feet as at
present - All the above work
shall be of latite in Chinnam
of the best quality

The inside of the Court & Plastering
the new walls shall be plastered
with one Coat of plaster and
two of white wash; all other
old walls shall be left untouched.
The whole of the walls outside
shall be plastered with 1 Coat
of plaster, and two Coats of
red wash; the wash shall
be coloured with red ochre to the
Colour of Sateen Stone -

The roof shall be of Roofing
Juglewand Common rafters,
cepers and Machine Tiles - The
rafters shall be $5" \times 2\frac{1}{2}"$ placed
 $2\frac{1}{2}'$ apart from Centre to Centre,
the ceper $2" \times 12$ inches apart
to suit Machine tiles; the rafters &
cepers shall be coated with 2
Coats of wood oil -
To the underside of the

Common rafters a boarded
ceiling shall be attached to
mitigate the heat, which shall
also be coated with wood oil
on the lower surface -

The tiles shall be tressed
on the outer surface, the building
being exposed to the sun.

The roof shall be supported
by wrought iron trusses
placed 9 feet apart from
Centre to Centre (except the two
at the ends which shall be
 $8\frac{1}{2}$ feet from face of walls)
of the pattern shown in section;
the pitch of the roof shall be $\frac{1}{3}$

Span or thereabouts -

The ridge pole shall be
119 feet long and $4" \times 7"$; the
purlins 119 feet long and $4" \times 7"$;

all wood work shall be of good seasoned pine wood free from knots or flaws of any kind -

The trusses shall rest on, ^{Trusses} and be bolted to granite bed plates built into the walls -

26 Clerestory window ^{6' x 11'} ^{Clerestory windows} with 6" rise in centre shall be fixed, glazed, and pivoted into the frames with all proper fittings on ropes cleats for opening and shutting

Segmental Arch work shall be built over ^{Arch work} ^{two} ^{with a granite} ^{keystone} at centre projecting 3" from face of wall -

Two glazed fan lights of the ^{Fan lights} pattern shown in section shall be fixed in the gables of the ^{end}

End walls of building, in the cross wall they shall be merely circular openings -

The existing doors & windows shall all be painted with 2 coats of Carson's paint of Oak, Portland stone colour or green

A cornice shall be run round the outside of the building at the top of the lower roof to prevent leakage at the junction of roof with wall, also along gable ends

A new portico shall be built to the entrance as shown in elevation; to support frieze and entablature, a wrought iron girder shall be fixed for the architrave

A raised dais with railing shall be provided for the Judge, and all proper accessories to a Court as witnesses box prisoners bar

The windows to the Record Room shall be provided with iron barred frames in addition to the existing glazed shutters.

The floor of the Court shall be laid with Coal tar Composite of the following proportion 1 part of tar, 2 parts of lime, 2 parts of sand in lieu of the present laterite Jelly flooring.

Zinc gutters shall be fixed to the eaves of the upper roof, and barge boards to the eaves of the gables -

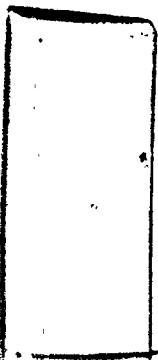
District Officer
Nagabolu Dec 1873

District Court
South Canara
6th January 1874

Ala Nazam
off Dist Nagabolu

Shivaram
As District Judge

Officer accordingly modified
 the design originally submitted
 so far as regarded the
 roof, substituting wooden
 frame port trusses for
 iron trusses & the District
 Engineer now submits a



Mr 3908/74
 3

Encl 3rd

28. 730 July/74

in the 18th 1898.

the app. 18th Aug

of the 18th Aug

custom 18th Aug

1874.

No 1.

P. M. 3908/74

Specification

Report to be made

from estimate for

the 18th Aug 1874

Reference
 18th Aug 1874

P.W. Dept.
South Canara District
1874-75.

Specification Report
to accompany esti-
mate for improve-
ments to the District
Court House at
Mangalore.

P.W. 3908/74
6
Pl. 17 30 July 174
In 8 N° 698.

No. 1.
P.W. 3907/74
Specification
Report to accom-
pany estimate for
improvements to
the District Court House
Mangalore
In 14-88 524/74

P.W. 3930 July 174
In 18 N° 698.
the P.W. estimate
to the P.W. Dept.
under 61/2 panna
1874.

Public Works Department
 Proceedings of the Madras Government
 From the Offg. Secy. South Canara (P.W. Co. 35-78 June 1874)
 do do do (P.W. Co. 40-720" do)
 2073

In their order of the 14th Feb.
 1874 No. 138 the Government
 directed that the details
 of the Plan & Estimate,
 furnished by the District
 Engineer S. Canara for the
 renovation of the Court
 House at Mangalore should
 be revised by the Inspecting
 Engineer for Buildings. That
 Officer accordingly modified
 the design originally submitted
 so far as regarded the
 roof, substituting wooden
 frame port trusses for
 iron trusses & the District
 Engineer now submits a

[Handwritten signature]

Amounting to Rs. 13700
revised estimate, embodying
the alteration referred to
but substituting in the
design of the new traps
iron bars instead of the
ordinary auxiliary rafters.

2. The former estimate was
for Rs. 12000 but the
District Engineer subsequently
reported that he had
underestimated the cost
of the iron traps by Rs.
1840. The Government are
of opinion that as work of
this character is not well
understood by workmen in
that locality the expenditure
would probably be even larger
than that officially
allowed & they consider the
re-estimate introduced by

the Inspecting Engineer
judicious, and do they
approve of the alteration
in detail of the wooden
trap suggested by Mr.
Lampford the auxiliary
rafters of which should
be retained.

3. Subject to the above
remarks the revised Plans
are approved of & the
estimate is sanctioned.

Order
6-7-74

G. M. R.

3. The Plans & estimate.
will be retransmitted to the
Judicial Department
with a view to sanction
being given in that Dept.
to the estimate in its
present form. In the
mean time the District
Engineer will make all
necessary arrangements.

To the S. & S. Canada &
"Judicial Dept &
"Controller with 2 Lb. Estimates &
J. Copies despatched 5/8/74.

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[Faint, illegible handwritten text, possibly bleed-through from the reverse side]

697-699

6/17/14 to 14/1/14

3543-3908

Gobt. of 1874 Madras.
PUBLIC WORKS.

To
The Dist. Engr.
South Canara

Dated

Recd.

Encl. 6

G. O. 30th July 1874. No. 2073

No. 697-699.

Court House at Mangalore
South Canara District.

The revised plans for
carrying out certain improve-
ments to the Court House
approved ^{with} ~~subject to certain~~
remarks, and the Estimate
amounting to Rs 13,700
sanctioned of —.