M.R.O. 1—77,000—4-6-37.

(1) Number of pages 30

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 822 Press / Mis.

Dated 1-10-1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st October 1877, No. 822 W.

Buildings and Roads.
Civil Works.

Read the following papers :—

No. 24.	Proceedings of the Judicial Department, dated	12th June 1876,	No. 1,178.
No. 24-A.	From the District Engineer, Malabar, „	1st Dec. „	„ 171.
No. 24-B.	From „ „ „ „ „	30th Jan. 1877,	„ 210.

No. 24-C. From Lieutenant-Colonel R. B. KENNEDY, District Engineer, Malabar, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Camp, Luckadie, 28th March 1877, No. 259.

In accordance with the memorandum from Officiating Deputy Chief Engineer, No. 95 T, dated 26th January 1877, I have the honor to submit a revised plan and estimate* for the Sub-Judge's Court at Cochin, in which a roof of a different design has been substituted which I trust will meet your approval.

* Rupees 3,100.

No. 24-D. From the same Officer, dated Calicut, 16th August 1877, No. 75.

Reference No. 1,837, *dated 3rd July* 1877.

With reference to above, I have the honor to forward a revised plan and estimate* for making certain additions and alterations to the Subordinate Judge's Court at Cochin prepared in accordance with the instructions contained in your memorandum under reference.

* Rupees 3,970.

2. The preparation of trusses and other materials can be taken in hand immediately the work is sanctioned, and the whole work completed in four months.

No. 25. Order thereon, 1st October 1877, No. 822 W.

The revised plan and estimate of Rupees 3,970 for re-roofing the Sub-Judge's Court at Cochin and making additions and alterations thereto are sanctioned.

2. Funds have been appropriated for the work in G.O., No. 807 W of 29th September 1877.

3. This sanction has been registered as Provincial No. 160 B of 1877-78.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Malabar.
„ Examiner of Public Works Accounts.
„ Judicial Department.

Exd. C. Howarth.

Spare Copies

Copied 29/6

No. I/491 of 30th June 76.

MEMORANDUM.

~~Letter~~ Number ....

dated the ....

~~from the District Engineer of~~ ....

Abstract Estimate No 2 of 1875/6 Provincial Service Civil Buildings for altering the Sub Judge's Court at Cochin being date 2 Feby 1876.

The Plan Estimate and Specification are returned to the Dist Engineer Malabar who will be good as to supply a proper plan to scale ~~[illegible]~~ ~~of Roof~~ showing the alterations proposed in different colors, and giving detail drawings of roof on a large scale with scantling of timber ~~[illegible]~~ &c —

2nd The Sd. Engr. ~~attention~~ is drawn to the excess of rates ~~[illegible]~~ those of the District Schedule for the following items of the Estimate and he should report what caused thereof —

	Rs	
Laterite stone masonry work	2-0-0	per 100 cubic ft
Roofing with tiles rafters &c	2-0-0	per square

Contingencies 10 per cent
5 per cent is the usual charge

[illegible] 28.6.76

No. 171

Malabar Distt. Engrs. Office
Calicut 1st December 1876.

37

From
The District Engineer
Malabar,

To
The Chief Engineer,
D. P. W.
Madras.

Sir,

Referenced No. II/491 of 30th June 1876.

+Rs. 2,500

With reference to above I have the honor to forward Plan, Estimate & specification for making additions and alterations to the Sub Judge's Court at Cochin shewing the alterations proposed in different colors and giving detailed drawings of roof &ca &ca.

2. The excess in rates has been duly corrected, the former Estimate was an approximate one, but the rates there=in entered were ~~the same~~ also approximate

I have the honor to be
Sir,
Your most obt. Servant

Robt. B. Kenney Lt. Col:
Distt. Engineer, Malabar

or: Ch. Lr. No. 4/471 d/ 30th June /76.

P.W.D.
4 DEC 76
No. 8772

From
The Distt. Engineer,
Malabar,
To
The Chief Engineer,
P.W.D.
Madras.
No. 171.
Dated 30th Decr 1876
Recd.

No 95 J.
d/ 26/1/77

Submitting plans and estimates for Rs. 2000 for additions and alterations to the Sub Judge's Court at Calicut

...1st October /) 23rd. 24th

1253 J.
8/2/77

MEMORANDUM.

Letter Number 210
dated the 30 January 1877
from the District Engineer of Malabar

The use of Corrugated Iron for re roofing the building in question was only suggested ~~[illegible]~~ by the Chief Engr. - It rests with the D.E. to determine the suitableness of ~~its~~ the adaptation or otherwise in reference to its necessity, permanency, efficiency and general economy -

Wh
1.2.77

Malabar Distt. Engr's Office
Calicut 30th January 1877

No. 210

Malabar Distt. Engrs. Office
Calicut 30th January 1877

From

The District Engineer,
Malabar.

To

The Chief Engineer
Public Works Department,
Madras.

Sir,

Reference - No. 95 dated 26th January 1877.

Before re-submitting the Estimate for the alterations to Sub Judges Court at Cochin, I have the honor to point out that the mere cost of the continuous Iron proposed to be used will be Rs. 1482, without including cost of putting on, or an increase of close on 60 per cent. I shall be obliged by being informed whether this would be likely to be approved.

I have the honor to be
Sir,
Your most obedt. Servant

Ald. B. Kennedy Lt. Col.
District Engineer
Malabar

P.W.D.
1 FEB77
No 1036

From
The District Engineer
Malabar
To
The Chief Engineer
D.P.W. Madras

No. 210

Dated 30th January 1877
Recd.

Requests to be informed
whether the cost of the
condemned [illegible]
to be used for the alter-
-ations to Sub. Judge's
Court at Cochin will
be approved.

No 125 T.
7/2/77

G.O. 1st October 77 I.B. No. 24 B

Cw 7/9 R 27/9

---

ds & Buildings

No. 259

Malabar District Engineer's Office
Camp Zuckadie 28th March 1877

From,
The District Engineer
Malabar

To,
The Acting Chief Engineer
Roads & Buildings
D. P. W. Madras.

Sir,

In accordance with the Memorandum from Officiating Deputy Chief Engineer No. 95 T. dated 26th January 1877, I have the honor to submit a revised Plan and Estimate for the Sub-Judge's Court at Cochin in which a roof of a different design has been substituted which I trust will meet your approval.

Rs. 3100 - -

I have the honor to be
Sir
Your most obdt. Servant
Robt. W. Kennedy Lt. Col.
District Engineer, Malabar

Memo. I/491 - 30-6-76
" 95 I. 26-1-77.
" 125 I. 1-2-77.

Roads & Buildings

From

The District Engineer
Malabar

No 259

Dated 28th March 1877
Recd.

Enclos. 4

+ Rts to D.E.

C.E. No 1837 d/ 8th July 1877.

G.O. 16 October 77 LB No 24 C

Sub-judge's Court at Cochin.

Forwards a revised plan and Estimate for repairing the roof for approval.

Cir 27/9 R29/9

133

No 95 I
d/ 26th Jany 1877

MEMORANDUM.

Letter Number No 171 ~~[illegible]~~

dated the 1 December 1876

from the District Engineer of Malabar

The design submitted for roofing the main building, a mere adaptation of the commonest description of western Coach Roof is not approved of ~~which~~ ~~[illegible]~~ the specification ~~[illegible]~~ accompanying it is very unintelligible.

From the correspondence available, viz that printed with G.O. No 1178 dated 8 June 1876, herewith forwarded for information, it is not inferred that any complaint has been made in regards to the condition of the roof of the building timbers without further report on the subject ~~there~~ there seems no necessity that it should be touched at all — If however the roof timbers require renewal and the roof generally to be improved it would be far better not to interfere with its general design but simply to make it weather tight and safe which conditions would be better attained by reconstructing it on its present plan with such modifications only

as ~~would~~ admit of the
use of Cantilevers &
from ~~being~~ below
the ceiling and reassessing
the valley drainage.
It is remarked that
~~the repairs~~ the re-roofing
of the main building
to be very interfering
with the ~~design~~ approved
design for additions.
~~which can be made~~
The Plans Est. &
specifications are
returned herewith for revision
in accordance with
the above suggestions
and will be resubmitted
to this Office as early
as possible so as to
allow of the work
if possible being
undertaken ~~before~~
~~the~~ next completed
~~rains~~ before the
monsoon

25.1.77.

Estimate of the probable cost of making Additions and Alterations to the Sub Judge's Court at Cochin — Malabar Distt.

No.	Measurements L	B	D	Contt.	Particulars	Rate	Amount of each Article work	Remarks
					New Verandah.			
1	85¼	4	4	1364	Excavating foundations to Verandah walls			
2	7¼	4	4	232				
			Total	1596	Cft. or 59 Cyds. of Earth work	at " 2 " Cyd.	7 6 "	
1	85¼	4	1	341	Concrete below Masonry for Longitudinal wall			
2	7¼	4	1	58	Do. Do. for Cross walls			
1	75	8	½	300	Flooring to Verandah			
1	6	8	½	24	Do. to Bath rooms			
			Total	723	Cft. of Concrete	at 15 " 100 Cft.	108 7 2	
10	3	3	3	270	Foundation to Pillars			
1	54¾	1½	3	246⅜	Do. to Retaining walls between Pillars			
2	7¾	1½	3	69¾	Do. to Cross walls			
				586⅛	Carried over		115 13 2	
				477				

				586 1/8	Brought Forward,	115 13 2
10	9	2½	2½	562½	Superstructure to Pillars	
1	8	1½	9	108	Do to Bath rooms Side wall	
1	5	1½	9	67½	Do to Do Front Do	
	Total.			1324 1/8	Cft. of Masonry.	
1	3	1½	6	27	Deductions to Door on bath room,	
	Net Total.			1297 1/8	Cft. or 1300 Cft. of Laterite in chunam, at 20 .. 100 Cft.	260 .. ..
10	10	..	9	900	Plastering to Pillars	
2	26	..	9	468	Do to Bath room walls Sides and Front.	
	Total.			1368	Sft. of Plastering with Chunam, at 2 .. Sft.	27 5 9
1	87	8"	11"	53 1/6	Bressummers Lower Verandah.	
44	9	4"	8"	88	Joists for upper Verandah floor.	
1	87	8	1"	58	Planking Do Do	
11	8	5"	5"	15¼	Posts to Do Do	
11	8½	4"	4"	10⅓	Cross bars for Boarding	
11	8½	4"	4"	10⅓	Upright Do Do	
11	8½	3'	1"	23 3/8	Boarding to Verandah.	
1	8½	3'	1"	2⅛	Boarding end gable.	
1	87	5"	10"	30⅙	Bressummer to upper Verandah.	
4	18	8"	12"	48	Beams of Stair Case	
32	5'	12"	1½"	20	Tread of Steps.	
32	5	8"	1"	8 2/12	Rise of steps	
8	16	4"	4"	14¼	Railings	
12	4	5"	5"	8⅓	Do Posts.	
	Total.			390¼	Cft. or 390 Cft. of Junglewood Erool or Karunmarudu 1 4 .. Cft.	487 8 ..
22					22 Latties at 3 .. each	66 .. ..
1	82½	14	..	1155	Sft. of Roofing upper Verandah with Rafters reepers, Nails, pantiles & chunam borders &c. at 20 .. .. Sft.	231 .. ..
5	42½	11"	6¼	101-6	Tie Beams.	
5	18¾	6"	6¼	62-9	Straining Sills.	
10	5				Struts to Queen posts.	
5	8½				King posts.	
12	5½				Struts for King posts.	
5	18¾	6¼"	7"	81-8	Straining beams	
10	6½				Queen posts.	
10	11				Auxiliary Rafters.	
10	24	8¾	6¼	91-1¾	Principal Do	
1	104	5"	7"	159'-8¼"	Purlins	
1	144				Do	
1	184				Do	
1	225				Pole plates.	
1	32	2"	5"	2'-2⅔"	Ridge Pole.	
				499	Carried over,	1187 10 11

				499	Brought Forward.			1187 10 8
2	76	9"	6"	88½				
2	42				Wall plates.			
			Total.	587½	Cft. of Teakwood wrought and fitted.	at 2 8 "	Cft.	1468 12 "
4					Four Corner Trusses to hold up ends of purlins and hip rafters	at 65 " "	each	260 " "
2	77	27 "		4158	Roofing main building.			
1	44	14 "		616	Do. Vakeel's room			
			Total.	4774	Sft. of Altering roof and Ceiling with ¼ new materials (for wood work &c.) and all new materials	at 8 " "	Sqr.	382 " "
14	2½	2½	3"	23 5½	Cft. of Granite Stone wall plates under Trusses.	" 12 "	Cft.	17 9 3
10	4¼	2"	¼"	183·70	Straps for Queen posts at Bottom.			
20	2½				Do. — Do. — at top.			
5	3½				Do. — for King posts at bottom.			
10	5¼	3"	¼"	* 250·0	Do. — for Tie beams } Double straps as per detailed Section.			
10	4¾				Do. — Do.			
20	2¼	3"	⅜"	× 84·37	Top and bottom plates for Scarfing.			
20	1¼	½" Do.		⊗ 16·40	Bolts to Do.			
40	"	"	"	⊛ 6·56	Bolt Heads and nuts.			
			Total.	541·03	lb of wrought iron work for Trusses.	at " 3 6	lb	118 5 6
150					160 — 7" Screw Nails including Bolt Heads and nuts	at 8 " "	per 100	12 " "
60					60 — 8" Common Nails	at 6 " "	Do.	3 9 7
1	8	6 "		48	Asphalting Floor ½" thick to Bath room	at 18 " "	Sqr.	8 10 2
2	5	" 8		"	Converting windows into Doors at	20 " "	each	40 " "
2	3	" 6		"	Doors to Bath room and at a in Plan including Bolts hinges &c.	at 15 " "	Do.	30 " "
4	75	15½ "		4650	Dismantling Old roof and Ceiling			
2	17	7	10	2380	Steps			
			Total	7030	Sft. of Dismantling Old roof	at 2 " "	Sqr.	140 9 7
					Tarring wood work			30 " "
					Total Rupees			3699 3 0
					Sundries and Superintendence at 7½ ⅌ cent.			270 13 0
					Grand Total of Estimate Rupees			3970 " "

01·67 lb ⅌ Rft

* 2·50 lb ⅌ Rft

× 3·75 lb ⅌ Rft

⊗ ·656 lb ⅌ ft

⊛ ·164 Head

Malabar Distt Engr's Office
Calicut 16th August 1877

W. H. Kinne Lieutt. Coll.,
District Engineer, Malabar

Abstract Estimate for making additions & Alterations to the Subjudges Court at Cochin

Quantities	Particulars	Rate.	Amount of each article work	Remarks.
59	Cyds. of Earth work	at .. 2 .. Cyd.	7 6 ..	
723	Cft. of Concrete.	at 15 .. .. 100 cft.	108 7 2	
1300	Cft. of Laterite in Chunam.	at 20 .. .. Do.	260	
1368	Sft. of Plastering with Chunam.	at 2 .. .. Sft.	27 5 9	
390	Cft. of Jungle wood (Eroob or Karumarudu)	at 1 4 .. Cft.	487 8 ..	
22	Setties	at 3 .. .. each	66	
1155	Sft. of Roofing with Rafters, reepers, Nails, pantiles and Chunam borders &c. complete.	at 20 .. .. Sft.	231	
58½	Cft. of Teak wood wrought and fitted	at 2 8 .. Cft.	146 8 12 ..	
4	Corner Trusses to hold up ends of purlins & hip rafters	at 65 .. .. each	260	
4774	Sft. of Altering Roof and Ceiling with ½ new Materials (for wood work &c.) and all new materials.	at 8 .. .. Sft.	382	
23.5¼	Cft. of Granite Stone	at .. 12 .. Cft.	17 9 3	
541.03	lbs. of wrought Iron work fitted Complete.	at .. 3 6 lbs.	118 5 6	
150	4" Screw Nails including Bolt heads and nuts	at 8 .. .. %o	12	
60	8" Common Nails	at 6 .. .. Do.	3 9 7	
48	Sft. of Asphalte floor ½" thick	at 18 .. .. Sft.	8 10 2	
2	Converting two windows into Doors	at 20 .. .. each	40	
2	Two Doors complete.	at 15 .. .. Do.	30	
7030	Sft. of Dismantling Old roof	at 2 .. .. Sft.	140 9 7	
	Tarring wood work.		30	
	Total Rupees.		3699 3 ..	
	Sundries and Superintendence at 7½ % cent.		270 13 ..	
	Grand Total of Estimate Rupees.		3970	

Malabar Distt: Engrs. Office
Calicut 16th August 1877

Wt. H. Kenney Lieutt: Coll;
District Engineer, Malabar.

Roads & Buildings

From District Engineer,
Malabar.

No. 75
Dated 16th August 1877.

G. O. 1st October [illegible] S.B. No. 246

Estimate for making Additions & Alterations to the Sub Judge's Court at Cochin.

Amount of Estimate Rs. 3970.

Specification to accompany the Estimate amounting to Rupees 3970 for Improving the Sub-Judge's Court at Cochin Malabar District.

New upstair Verandah.

Earth work
Concrete

The foundations having been dug to the depth of 1 foot, the concrete composed of 2 of Laterite gravel to 2 of Sea Sand and 1 Shell lime should be laid in layers of 3 inches which should be rammed and allowed to set and then another 3" and so on till the full depth of 1 foot is completed. When this has set thoroughly the masonry may be commenced as per dimensions shewn in plan.

Foundation.

The foundation of pillars will be 3 feet square with a retaining wall between them of 1½ ft broad the foundation will be 3 ft deep.

Lower floor.

The lower floor will be [illegible] a bed of Concrete and have a [illegible] foot from inside.

Superstructure

The Pillars will be 1½ ft Sqr [illegible] high.

Upper floor.

On these pillars the upper floor beams are placed. The joists will be about 4½ ft inside the wall of main Building and the other ends will rest on these Beams they will be 2 ft apart from centre to centre.

The planking will be laid longitudinally across the joists, each plank should be secured to a joist with a 2" nail one within an inch of the edge of each plank, to prevent warping

warping the planks should not be more than 1ft broad.

Roof. The wooden posts of upper verandah will be morticed into the beams on top of the masonry pillars and will be about 8 feet high and on top of them will rest the bressummers all round and these bressummers will carry the rafters of the new roof the other ends of the rafters being bolted to the rafters of the main roof.

Tatties &c. The lower half of this Verandah will be boarded in and the upper half will be sheltered by tatties well tarred hanging from the bressummers by hooks & eyes so that they may be opened if necessary.

Steps. The old masonry steps which project from the building should be removed altogether and new wooden steps should be made from the lower Verandah into the upper, as shewn in the Elevation, these old steps have yearly to be covered in and the new ones will be always sheltered.

Altering Old roof. The present roof as before explained has a valley which is always leaking, this should be dismantled and the new trussed roof will be provided with the Teak wood Trusses, Straining Sills, Straining Beams Queen posts, Struts King posts, Auxiliary rafters &c as per details and dimensions shown in Estimate and Plan, then take the jungle wood Rafters in the proportion of one new for every three old and fix them 2 feet apart from centre to centre, from ridge pole to Purlin and wall plates, the reepers will be 2" broad ¾" thick & 6" apart from centre to centre, and the tiles should be the large Alwaye tile.

Doors. The present windows b & c should be made into doors and a new door should be opened at a

Tarring. All the wood work should be well tarred and the tar should be put on as hot as possible.

Tatties These are to be made of double bamboo mats with wooden frames 2"×1" and well tarred both inside and outside.

Asphalting The floor of Bath room to be provided with ½" asphalte on a layer of concrete 3" thick

Granite stones. Granite stone slabs 2½ × 2½ × 3" should be placed under the trusses.

When all the work is finished the site must be left in a clean state.

Malabar Distt: Engrs Office
Calicut 16th August 1877

Rt. B. Kenny Lt Coll;
Distt: Engineer, Malabar

Roads and Buildings.

From District Engineer
Malabar

No. 75

Dated 16th August 1877

Specification for Making
Additions and Alterations
to the Sub Judges Court at
Cochin

Estimate Rs 3970

G.O. 1st Octr/77 I.B. No. 24 D.

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oads & Buildings

Malabar District Engineer's
No. 75 Office Calicut 16th August /77

From,
The District Engineer
Malabar

To,
The Chief Engineer
Roads & Buildings
Madras

Sir,

Reference No. 1887 of 3rd July 1877.

Rs. 3970

With reference to above, I have the honor to forward a revised plan and Estimate for making certain additions and alterations to the Subordinate Judge's Court at Cochin prepared in accordance with the instructions contained in your memo under reference.

2 The preparation of Trusses and other materials can be taken in hand immediately the work is sanctioned and the whole work completed in four months.

I

I have the honor to be
Sir
Your most obdt. Servant
W. H. Kenney Lt. Coll
District Engineer, Malabar

Roads & Buildings

From District Engineer,
Malabar-

No. 75-
Dated 16th August 1877-

Enclo: — 2

Subordinate Judge's Court
at Cochin-

Forwarding a revised plan & Estimate Rs. 3970 for making certain addition & alterations-

G.O 1st October 77 No. 824 D-

Ai 27/9 A 29.9

B & Roads
Works

No. 822 W-

83

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 1st Oct. 77-

Read the following :—

Proceedings of the Judicial Depart. (H.C. No. 1178 dated 12th June 1876).

From the District Engineer Malabar (H.C. No. 171 dated 1st December 1876).

From the District Engineer Malabar (H.C. No. 210 dated 30th Jany. 1877).

From the District Engineer Malabar (H.C. No. 259 dated 28th March 1877).

From the District Engineer Malabar (H.C. No. 75 dated 16th August 1877).

The revised plan and estimate of Rs: 3970 for re-roofing the Sub-Judges Court at Cochin and making additions and alterations thereto are sanctioned.

2. Funds have been appropriated for the works from the Provincial Reserve of 1877-78 in G.O. No. 807 W of 29th September 1877.

22.9.77.

25/9

This sanction has been registered as Provincial No. 106 B of 1877-78.

D. E. Malabar 9
Examiner P.W. Accts 5
Judicial Depts 7
Desp. 9-10-77. 17

Govt. of 1877 Madras.

PUBLIC WORKS.

To D. E. Malabar

Dated

Issued

Recd. Encl.

G. O. 1 Octr. 1877, No. 822 W

Nos. 24-25

ub. Judges Court at Cochin,
labar Dt. sanctions re
sed plan and estimate for
e roofing and making a
dditions and alterations
the —

Sub. Dir. Rep.
10.10.77

Recd 27-9 - R 1-10
Cir 27/9 R 29/9