

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	916	Press
B.P. No.		Mis
567-568		
Dated	26-3-	1873.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th March 1873.*

No. 567. Read the following Proceedings of the Madras Government in the Judicial Department, dated 19th February 1873, No. 263:—

From the District Engineer of Madura, to the Secretary to Government, Public Works Department, dated Madura, 4th February 1873, No. 4,738.

I HAVE the honour to submit, for the sanction of Government, the accompanying plans and estimates, for the two works noted in the margin, prepared at the request of the Collector of Madura, and to state that I have, in anticipation of the sanction of the estimates, authorized the Range Officers to commence the works at once in order to complete them before the close of the current official year, and I trust that this course will meet with the approval of Government.

2. I take the opportunity to mention that I have already, in my letter No. 4,633, dated the 27th ultimo, applied for an additional grant being sanctioned, during the current official year, towards carrying out the above-mentioned two services.

REFERRED to the Judicial Department.

FORT ST. GEORGE,
10th February 1873.

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government, P.W.D.

THE work (which appears to be already in progress) is sanctioned.

2. Orders will be issued in the Department of Public Works to ensure the submission, with all plans and estimates for Civil Buildings, of some information as to the necessity for the work. This will be obtained in writing, by the District Engineers, from the officers who may call on them to prepare the estimates.

3. In the present instance a reference to the report of the Subsidiary Jail Committee in 1873, shows that some arrangement for accommodating the treasury would be necessary in carrying out the improvements recommended at Maylur, but the suggested arrangement was not such as is now being made, nor is there anything to show how the treasury has hitherto been lodged, or whether the Committee's proposals have been carried out.

(True Extract.)
(Signed)

W. HUDLESTON,
Chief Secretary.

No. 568. ORDER THEREON, 24th March 1873, No. 916.

CIVIL WORKS, No. 36.

ALL that is required to secure the object in view is strict conformity with paragraphs 84 to 86 of Chapter V. of the Public Works Code, substituting for the "Chief Engineer" in paragraph 85,

20/3/73

*Proceedings of the Madras Government, Public Works Department,
24th March 1873.*

the "Inspecting Engineer for Civil Buildings;" whose attention and that of District Engineers is called to these standing orders of the department; as will be that of all Collectors through the Revenue Department.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To District Engineers.
To the Inspecting Engineer for Buildings.
" Revenue Department.
" Controller of Public Works Accounts.
To Major R. B. Kennedy.

Exd. E. C. Shunker.

*Proceedings of the Madras Government, Judicial Department,
19th February 1873.*

No. 76. Read the following letter from the District Engineer of Madura, to the Secretary to Government, Public Works Department, Fort St. George, dated Madura, 4th February 1873, No. 4738 :—

I have the honour to submit, for the sanction of Government, the accompanying plans and estimates, for the two works noted in the margin, prepared at the request of the Collector of Madura, and to state that I have, in anticipation of the sanction of the estimates, authorized the Range Officers to commence the works at once in order to complete them before the close of the current official year, and I trust that this course will meet with the approval of Government.

2. I take the opportunity to mention that I have already, in my letter, No. 4633, dated the 27th ultimo, applied for an additional grant being sanctioned, during the current official year, towards carrying out the above-mentioned two services.

Referred to the Judicial Department.

FORT ST. GEORGE,
10th February 1873.
(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government, P. W. D.

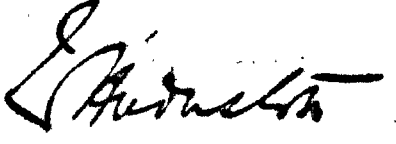
No. 77. ORDER THEREON, 19th February 1873, No. 263.

The work (which appears to be already in progress) is sanctioned.

2. Orders will be issued in the Department of Public Works to ensure the submission, with all plans and estimates for Civil buildings, of some information as to the necessity for the work. This will be obtained in writing, by the District Engineers, from the officers who may call on them to prepare the estimates.

3. In the present instance a reference to the report of the Subsidiary Jail Committee in 1868 shows that some arrangement for accommodating the treasury would be necessary in carrying out the improvements recommended at Maylur, but the suggested arrangement was not such as is now being made; nor is there anything to show how the treasury has hitherto been lodged, or whether the Committee's proposals have been carried out.

(True Extract.)


Chief Secretary.

To the Public Works Department, with enclosures returned.
" Collector of Madura.
" Inspector-General of Jails.
" Accountant-General.

Exd. J. Wright.

20/2/1873

84. When a Collector is of opinion that any new building, or any enlargement, or extensive alteration or improvement, of an existing building is necessary, he shall obtain from the District Engineer a rough or proximate estimate of the cost.

Preliminary estimate
for new building.

85. If the proximate estimate be above 500 Rupees, he will submit it to Government, through the Board of Revenue. Should the proposition be approved by Government, a detailed estimate, Forms Nos. 11 and 12, shall be prepared by the District Engineer, together with a plan, when a standard is not followed; and shall be forwarded, with the countersignature of the Collector, to the Chief Engineer, who, after obtaining the approval of the Board of Revenue, when necessary, will submit them for sanction.

If over Rupees 500,
how disposed of.

86. If the proximate estimate be within 500 Rupees, the detailed estimate shall be prepared with a plan, if necessary, without the previous permission of Government, and shall then be submitted for sanction with the countersignature of the Collector.

If under Rupees 500,
how disposed of.

is the best, and I am sure
is not the best

GOVT. of 1873 JUDICIAL.

THE PUBLIC WORKS DEPARTMENT.

Dated February, 1915.

Recd. — 25.

G. O., 19th February 1873, No. 263.

FEBRUARY,
MOS. 76-77.

Sanctifying the construction of a Treasury-room in the Trading Company at Malacca, and a cook-room for the Subsidary Jail at Penang, Malacca District, which is necessary to the Public Works Department.

Aug 16 - 20 exactly

Ms. A.9.2.6.10.56

Extract of paragraphs 84, 85 and 86 of Chapter V. of Public Works Code.

REVENUE.

84. When a Collector is of opinion that any new building, or any enlargement, or extensive alteration or improvement, of an existing building is necessary, he shall obtain from the District Engineer a rough or proximate estimate of the cost. Preliminary estimate for new building.

85. If the proximate estimate be above 500 Rupees, he will submit it to Government through the Board of Revenue. Should the proposition be approved by Government, a detailed estimate, Forms Nos. 11 and 12, shall be prepared by the District Engineer, together with a plan, when a standard is not followed; and shall be forwarded, with the countersignature of the Collector, to the Chief Engineer who, after obtaining the approval of the Board of Revenue, when necessary, will submit them for sanction. If over Rupees 500, how disposed of.

86. If the proximate estimate be within 500 Rupees, the detailed estimate shall be prepared with a plan, if necessary, without the previous permission of Government, and shall then be submitted for sanction with the countersignature of the Collector. If under Rupees 500 how disposed of.

Note.

It is from ~~50~~
which will meet
the Revenue Order.

The collector how-
ing got his rough
estimate of cost
from the Engineer,
with a rough
sketch illustration.

time if necessary,
goes up to the Rev.

some Board
with these; and
explains through
them to get in
the Rev. Dept.

The necessity
that has arisen,
and the manner
in which he pro-
poses to meet it.

This proposal is
rejected, modified
or approved, in
the Rev. Dept. &
transferred to the
I. W. Dept. in wh.
measures are

adopted for con-
sidering out the
decision arrived
at.

G.M.

4.2.79

Specification Report to accompany Plan
and Estimate for constructing a Treasury room
in the Salug-Cubeberry at Meylan.

1. Amount of Estimate Rupees. 355-00

Excavation

2. The trenches for foundation to be dug
to a depth of not less than $2\frac{1}{2}$ feet and the
bottom taken out to a uniform level well
watered and rammed before filling in the
same.

Rough Stone in
Chunam

3. The foundation to consist of rough stone
in mortar prepared in proportion of One of lime
to $\frac{1}{2}$ of river sand ~~and~~ ^{and} ~~of~~ ^{of} ~~the~~ ^{the} well
beaten on ground care must be taken that the
water and sand used are altogether free
from ~~saline~~ ^{salt} particles. The stones collected
for the work to be wedged flat side and as rectan-
gular as possible so that the joints may be
fitted in closely with mortar. Each course of
stone work to be successively finished to
a uniform level in a substantial manner.

Brick in Chunam

4. The basement and walls to consist of
sound and well burnt bricks of Government
size in Chunam of the above description. The
mortar joints not to exceed $\frac{1}{4}$ inch thick.
English bond to be observed throughout. The
bricks to be dipped in water when used.

Plastering

5. Brick joints to be properly scraped
out and well watered before plastering. The
plastering to consist of the mortar prepared
in the manner already described in para 4.
The ~~and~~ ^{and} coat to be of good lime putty prepared
in ^{pro} portion of one of lime to one of fine white
sand well mixed and ground together
and well rubbed in and smoothed when

DE Gangan

applied to the ~~wall~~ ^{wall}.

6- The roof is to consist of terrace ^{Terrace See at}
bricks on edge laid in Chunan (as described ^{foot-}
in para 4.) Over which is to come a layer of
jelly 6 inches thick beaten to 3 inches thick.
(The jelly to consist of one of Chunan one of
Sand and one of brick bats well mixed in
fresh water) then 2 courses of flat tiles, and
lastly 3 coats of Chunan well rubbed and
smoothed. The ceiling to be finished with
2 coats of plastering in Chunan prepared
as described in para 5.

7- ~~The floor of this room and verandah~~ ^{Flooring}
are to be brick jelly in Chunan prepared in pro-
portion of one of lime one of Sand and one of
brick bats and one of gravel well mixed
and laid 6 inches thick and beaten to 3 inches
and roughly smoothed.

8- The roof of the verandah to consist of ^{Bengal Terrace}
Dengay breastsummers rafters sleepers and
nails over which a course of flat tiles to be
covered with Chunan and above which 2
courses of flat tiles are to be laid diagonally
in Chunan and plastered with 3 coats of
Chunan and the whole to be neatly and
substantially finished. The tiles used
for the 1st course are to ^{be dipped} in Chunan water
before being laid over the roof.

9. The breastsummers and joists to be ^{Wood work}
of sound and seasoned Dengay wood
free from knot and cracks and to be of
the scantlings provided in the Estimate.
All wood work of the roof to be colored with
2 coats of paint prepared in the ^{following} manner.

The brick red Ochre of the Dargah is
to be ground down and mixed with linseed

oil sufficient to give the consistency of
Ordinary Paint.

Cut stone Casing

Door

10- Neatly dressed stones are to be placed
for the passage between Salug Cutcherry
Verandah and Treasury room.

11- The door to be of the description
and size delineated in the Plan. The frame
to be 6" x 4 1/2 inches and shutters to be battened
one of to be provided with iron fittings complete.

12- All rubbish collected during the execution
of the work to be carried off and shot at a
proper distance from the building and the
whole of the place to be thoroughly cleaned up.

13- All great trees to be cut down and the
stumps to be removed.

End

Detailed Estimate No 6 of 1872

District Madurai

Work - Constructing a Treasury room in the
Taluk Batching at Meylur.

Particulars of Work	Measurements			Cubic Contents
	Length	Breadth	Height	
<u>Foundations</u>				
To Walls	38	2½	2½	237½
To Verandah	19	2	2½	95
To 2 Piers for the Passage to the Treasury room	6	1½	3	27
				359½
Rough stone in Churn Coffer or Ceyards				13- $\frac{8\frac{1}{2}}{7}$
<u>Basement</u>				
To 4 Walls	38	2	2	152
To Verandah	19½	1½	2	58½
<u>Superstructure</u>				
Four Walls	38	1½	9½	520½
To Gable end walls of Verandah	12½	1¼	6½	61- $\frac{9}{16}$
Parapet wall over the Terrace	40	1	1	40
				872- $\frac{7}{16}$
<u>Deductions</u>				
One doorway	3	1½	6	27
Filling for Joists	3½	¼	¾	½
Do for Rafters	1¼	¾	¾	15- $\frac{15}{256}$

Deduct Cubic feet				27 $\frac{7}{10}$
Remaining Cubic feet				844 $\frac{3}{4}$
or Cubic yards				31 $\frac{7\frac{3}{4}}{27}$

Terrace work

Terrace including Cornice work	11 $\frac{3}{4}$	11 $\frac{3}{4}$	1	138 $\frac{1}{10}$
Cubic feet				138 $\frac{1}{10}$
or Cubic yards				5 $\frac{5\frac{1}{10}}{27}$

Flooring

To Treasury room	7 $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{1}{2}$	28 $\frac{1}{8}$
To Verandah	8	4 $\frac{1}{4}$	$\frac{1}{2}$	17
Cubic feet				45 $\frac{1}{8}$
or Cubic yards				1 $\frac{18\frac{1}{8}}{27}$

Bengal roof to Verandah	11	9	"	99
Square feet				99

Plastering

Basement to Treasury room	57 $\frac{1}{2}$	2	"	115
To Walls in and out	73	9 $\frac{1}{8}$	"	666 $\frac{1}{8}$
To Verandah	24	6 $\frac{1}{2}$	"	156
To Piers for the Passage	18	1 $\frac{1}{4}$	"	22 $\frac{1}{2}$
To Parapet walls	40	3	"	120
To Floor	8	8	"	64
To Verandah	8	6	"	48
To over Terrace including Cornice	9 $\frac{1}{2}$	9 $\frac{1}{2}$	"	90 $\frac{1}{2}$
To Ceiling — do —	8 $\frac{1}{2}$	8 $\frac{1}{2}$	"	16 $\frac{1}{2}$
To — do — Bengal roof	6 $\frac{3}{4}$	9	"	60 $\frac{3}{4}$
Square feet				1358 $\frac{7}{8}$

Wood Work

One Breastsummer to Verandah	10	$\frac{3}{8}$	$\frac{1}{2}$	17 $\frac{1}{8}$
Seven Joists to Treasury room	66 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{8}$	6 $\frac{15}{64}$
Seven Rafters to Verandah	67 $\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{8}$	3 $\frac{23}{128}$
Wrought wood C feet				11 $\frac{3}{8}$

Stone Work

Covering Stone for the				
Passage to the Treasury room	7 $\frac{1}{2}$	3	$\frac{3}{4}$	16 $\frac{7}{8}$
Cut stone Cubic feet				16 $\frac{7}{8}$
or Cubic yard				16 $\frac{7}{8}$
				27

3 x 6 - One Door

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C
8
P

27	8
----	---

802-13

Wm. L. L. L.

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Superintendent ^{RR} _{8th 2nd 7th}

Estimate No. 6 of 72 & 93

District of Columbia
Valley of Key Stone

Estimate for Constructing
a Reservoir, known as the
Valley Reservoir, and
Key Stone

No 355

Approved by Est. 22/6/72

[Handwritten signature]

Reported by
[illegible] to [illegible]

Layer of 3 of [illegible]

Alled, and
watered & rammed
to be

Enclosure No. 1. In a
letter from the District
Engineer Madurai No. 4738
dated 4th February 1876.

The Secretary Govt.
C.W.D.

1262.
P. W. 803/73.
Pl. 24 March 1873 B. H. 56.
Estimate for construct-
ing a Treasury room
in the Talook Cutchery
at Mayloor No. 355.

In No. 28/73

Specification Report to accompany

Plan and Estimate for constructing a cook room
for prisoners in the subsidiary jail at Seruchy

1. Amount of Estimate Rs. 115—

2. This Estimate provides a cook room for prisoners
to be constructed with raw brick in mud.

Foundation 3. The trenches for foundation to be dug to a depth
of not less than $1\frac{1}{2}$ feet and the bottom taken
out to a uniform level well watered and
rammed before filling in the same.

Brick in mud 4. The foundation of the pillars to be of sound
well burnt bricks in mud. The mud used
for the purpose to be prepared & tempered
before it is used.

Basement & walls 5. The walls and basement as per accompanying
plan to consist of raw bricks in mud
with the exception of the pillars which will
be of burnt brick in mud throughout, except
the upper part, which will be of brick in chun.

Plastering 6. Walls all round to be daubed with red clay
and afterwards whitewashed.

Flooring 7. The ground to be properly levelled and a
layer of 3" of river sand well watered & rammed
to be

to be applied, over this a course of gravel is to be laid well rammed with water.

8. The tiled roof is to consist of pan tiles & Roofing, couples, palmirah, rafters, reepers, wall plates, collar pieces, and nails &c. complete.

9. The wall plates to rest on the pillars. Wall plates & to be entirely clear of the mud walls which will be 1 foot less in height than the pillars the top part of the pillars will be in brick in chunam, & 1'3" square.

10. The roof to consist of 4 purlins & a ridge pole to support the reepers which will not run, as ordinarily, horizontally but with the slope of the roof. The purlins will be supported by couples one over each pair of pillars. The gable wall will be filled in with pan tiles.

11. There will be a dwarf wall of mud one on either side of the entrance. steps this dwarf wall to be 2 1/2 feet ^{high} with a neat coping.

12. The walls inside to be built with a shelf all round the 3 sides i.e. between the pillar spaces. This shelf is formed by building the mud walls the whole thickness of the pillars up to 3 ft high from which height the mud walls

Roof

Details of the building

wall are only 9 inches thick up to their top.
13 All rubbish, collected during the progress of the work to be cleared by the person Contracting the same.

Lieut. Col.
Superintending Engineer
8th Div.

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Reduc

Mud wa

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or

320

320

Carried over

to be applied, over this a course of gravel

Work
in

Detailed Estimate No. of 72-73
Madura District
Constructing a cook room for Prisoners
the Subsidiary Jail at Truchooly

Particulars of work

Measurements
in feet
Length Breadth Height Contents

Foundation Brick in Mud				
do do for Pillars	9	2 1/4	1 1/2	30 3/8
do do front Pillars	2	2	1 1/2	6
do do Pillars	9	2	1 1/2	27
Basement do front do	2	1 1/2	1	3
do do Steps	4	1	1/2	2
do do Pillars	9	1 1/2	8	108
Superstructure do front do	4	1	2 1/2	10
do do				
Total Brick in Mud in cft				186 3/8
or Cuds				6 7/8

Brick in chunam work at Top of Pillars 9 1 1/4 1 11 1/4

Total Brick in chunam in cuds 7 1/4

Foundation Sun dried Brick in clay				
do do rear walls	9	2 1/2	1 1/2	33 3/4
do do end walls	18	2 1/2	1 1/2	67 1/2
do do rear walls	9	2	1	18
Basement do end walls	18	2	1	36
do do rear walls	9	1 1/2	8	108
Superstructure do end walls	18	1 1/2	8	216
do do				
Total				478
of Almira				7 1/4

Deduct for the space of Almira 19 3/4 5 7 1/4

Remaining sun-dried Brick in clay in cft 406 1/4

Remaining sun-dried Brick in clay in cuds				
do do	9	1 1/4	4	35
Mud wall between pillars in front				
Total Mud work in cuds				1 1/3
Plastering with clay & cow dung & white washed	40		8	320
do out side				320
Carried over				

Brought Forward 320
 Plastering inside 20 3/4 " 8 166
 " Sides & Top of Almira 93 " 3 1/4 69 3/4
 " To Top of Pillars 36 1 " 36
 " dwarf wall sides & Top 7 " 6 42
 " Pillars between dwarf 6 " 8 48

Total Plastering with cow dung & white washed 69 9/16
 For squares 7

Flooring with Mud & Jelly 12 1/4 8 1/2 " 108 1/2

Total Flooring in squares 1 1/5

Roofing 18 3/4 18 " 337 1/2

Total roofing including Palmira rafters

Pan tiles reapers & purlins Principle rafters & app 3.38

Honey comb tile work over Gables 21 2 3/4 " 57 1/4

Total Honey Comb work in sq 58

Constructing a cook room for Prisoners in The Sub-
 sidiary Jail at Truchobly

Quantities	Particulars	Rate	Amount	Total
6 8/9	Cyds of B. Brick in Mud @	3	8	24 1/9
4 1/9	" " in Chunan @	4	8	2 " "
1 5/9	" Sundried Brick in Mud	12	11	5 4
1 1/3	" Mud wall @	8	"	10 8
7	Cyds of Plastering with clay & cow dung & whitewashed @	6	2	10 "
1 1/5	" Flooring with clay & jelly	8	"	8 7
3.38	Roofing, cluding Palmira rafters, purlins, pan tiles & complex	17	8	59 25
58	" Honey comb tile work @	9	5	36 10 5 10 3
	Superintendence Sundries		9	5 9
	Total Estimate Dupes		115	" "

Supd Engineer Office 8th Dec
 October 1872

Leitch Coll R
 Superintending Engineer 8th Dec

Wm Lister
 by Coler & Magto

Compd
 Lla

Envelope No. 3. Ina,
 letter from the District
 Engineer, Madras No. 4788
 dated 4th February 1873

To the Secretary & for
 (initials)

1262
 P. W. 800/73.
 P. 24 March / 73 B 13567.
 Estimate of Rs 115 for
 constructing a Cook
 room to the Subsidary
 Jail at Periochooly.

In hdt. 28/73

estimate for, Constructive
 of a Cook room to
 Subsidary Jail
 at Periochooly
 amounting to Rs 115

Madras District
 Revenue Officer
 estimate No. 115 of 72/73

177/73

No. 916 P. W. Dept.
 Pro: The Madras Govt.
 Read the Morning.
 Proceedings of the Madras Government
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MR

I am afraid this will not
 quite meet the Govt. of the
 P.W. Dept.
 A. 84. Cap. V. says when
 a Collector is "of opinion".
 What they want is
 a statement of the "necessity
 for a work". It is very
 desirable that Govt should
 have this before them when
 sanctioning a plan &
 estimate. (initials)

Copied by

All that is re-
 quired to secure the
 object in view is strict
 conformity with paras
 84 to 86 of Chapter V of the
 Public Works Code,
 substituting for the Chief
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 the "Inspecting Engineer
 for Civil Building";
 whose attention and that
 of District Engineers
 is called to these standing
 orders of the Department;
 as will be that of all
 Collectors.

Envelope No. 3. Ina,
 letter from the District
 Engineer, Madras No. 4788
 dated 4th February 1873

To the Secretary & for
 (initials)

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estimate for, Constructive
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 at Periochooly
 amounting to Rs 115

estimate of Rs 115 of 12/73

Madras District
 Revenue Officer

17/7/73

No. 916 P. W. Dept.
 To: The Madras Govt.
 Read the Morning.
 Proceedings of the Madras Government
 Judicial Department, dated 17th Febru-
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Copied by (initials)

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 for Civil Building";
 whose attention and that
 of District Engineers
 is called to these standing
 orders of the Department;
 as will be that of all
 Collectors.

Collected through the
Revenue Department

Chabr ☆

Govt. of 1873 Madras.

PUBLIC WORKS.

To The District Engineers.

Date

Revd.

Encl. 1

No. 2424 dated 9/16.

Nos. 567 & 568

Taluk Jubher at Maypur
and Sub Jail at Terachooly.

Passing orders on this in the
past week sanctioning
the construction of a Treasury
room in the Taluk Jubher
and a cook room for the
Sub Jail & desiring that
orders ~~may~~ be issued & in
the Govt. for the submission
of certain information into

253

St. Engineer
Inspector of Buildings
Per Secy
Controller
Major Kennedy

Depd 26/3/73.
H: 567.68.