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Public Works (1896) Department.

10540

G.O., No. 3560 w

DATED 11. December

12/11/96

[Despatch Abstract.]

Ware House at Mangalore. Estimate of
Rs. 14,569 for constructing a Corrugated
iron - in the South Canara D. Santhor
for execution when funds are available.

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2/11/96

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[P.W. 35
1892-93 to 96]

INDEXED
12/11/96

Estimate of Rs. 11,569 for constructing a corrugated iron —, in the South Canara district, sanctioned for execution when funds are available.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

G.O., Mis. No. 4502, Revenue, dated 12th November 1896.

Read—the following Proceedings of the Board of Revenue (Separate Revenue), dated 21st October 1896, Mis. No. 4370 :—

Read—again Board's Proceedings (Separate Revenue), Mis. No. 2942, dated 14th July 1896.

ABSTRACT.—Remarking that corrugated iron is not a suitable material for the godown to be constructed at Mangalore chiefly for salt storage, and stating that the estimate should be revised so far as the walls up to 9 or 10 feet from the ground are concerned.

Read—again Board's Proceedings (Separate Revenue), Mis. No. 3800, dated 9th September 1896.

ABSTRACT.—Informing the Collector of South Canara, with remarks, that contact of salt with corrugated iron will injure the iron, and requesting him to submit the estimate and plans of the proposed warehouse at once, if the former requires no revision.

Read—also the following letter from the Collector of South Canara, dated 8th October 1896, Disposal No. 1190-Eng. :—

With reference to Board's Proceedings (Separate Revenue), Mis. No. 3800, dated 9th September 1896, I have the honour to state that the Customs officer of the port of Mangalore informs me that salt imported in bags at this port is generally stored not resting against the walls of buildings, but at a distance of at least 6 inches from them, the intervening space being filled in with straw to absorb damp. He further informs me that the establishment of the public warehouse might lead to importation and warehousing of dutiable salt.

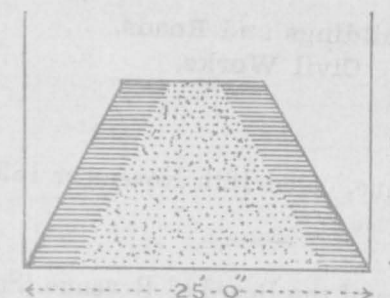
2. In his letter, No. 384-M, dated the 2nd instant (copy enclosed), the Superintendent Engineer states that it would be less expensive to enlarge the corrugated iron warehouse so as to make good the space lost by not heaping against the sides than to construct walls.

3. I therefore request that the plan and estimate, which were received back with Board's Proceedings (Separate Revenue), Mis. No. 2942, dated 14th July last, and submit to you *direct* to avoid delay, may be transmitted to Government for sanction and allotment of funds.

ENCLOSURE.

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Collector of South Canara, dated 2nd October 1896, No. 384-M.

With reference to your letter No. 1294 of 25th September 1896, I have the honour to point out that all the other warehouses as per margin along the coast which have been sanctioned by Government and which are intended for the storage of salt have corrugated iron sides. The objection taken by the Board of Revenue would be valid if it be considered necessary to pack the salt against sides, but in the case of the warehouses already sanctioned, this cannot be done for the simple reason that the sides would not stand the pressure. The salt will have to be heaped thus :—



It does not therefore seem necessary in the case of the warehouse at Mangalore, where there is only a probability of salt storage, to deviate from the plan already sanctioned for the other warehouses. As already pointed out in my letter, No. 330, dated 22nd August 1896, if the salt is to be packed to a height of 8 or 9 feet against the sides, the walls will have to be made very thick, and the cost of the warehouse will be very considerably increased. It would be less expensive to enlarge the corrugated iron warehouse so as to make good the space lost by not heaping against the sides than to construct walls.

I would suggest a further reference to the Board.

Read—also letter from the Superintendent Engineer, IV Circle, No. 403-M, dated 13th October 1896.

ABSTRACT.—Forwarding plans and estimate, amounting to Rs. 11,400, for constructing a corrugated iron warehouse at Mangalore.

Resolution—Mis. No. 4370, dated 21st October 1896.

The plans and estimate for the construction of a corrugated iron public warehouse at Mangalore is submitted for the sanction of Government, with reference to G.O., Mis. No. 2320, Revenue, dated 14th June 1894. The Board has ascertained from the Collector that, if the warehouse is used for the reception of salt, it is not intended to place it or the bags in which it is contained against the corrugated iron sides which would probably lead to their speedy destruction.

2. The amount of the estimate is Rs. 11,400, of which Rs. 5,382 is for compensation for private land.

(True Copies and Extract.)

(Signed) EDMUND MILLETT,
Assistant Secretary.

No. 3560 W., 11TH DECEMBER 1896.

Order—Mis. No. 4502, Revenue, dated 12th November 1896.

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

(True Extract.)

(Signed) G. STOKES,
Ag. Secretary to Government.*Note by the Chief Engineer, Public Works Department.*

The iron purlins appear to be weak. It would be better to make them 3" x 3" x 3/8". This alteration will raise the estimate from Rs. 11,400 to Rs. 11,569, and the estimate as thus altered is recommended for sanction.

7th December 1896.

(Signed) D. McNEIL CAMPBELL, Colonel, R.E.,
Chief Engineer.

ORDER—No. 3560 W., dated 11th December 1896.

The estimate, amounting to Rs. 11,569, as altered by the Chief Engineer, for constructing a corrugated iron warehouse at Mangalore, in the South Canara district, is sanctioned for execution when funds are available.

2. Attention is drawn to the Chief Engineer's note recorded above.

3. This sanction has been registered as Provincial No. 128 W. of 1896-97, and classified as Civil Buildings—Original Works.

(True Extract.)

(Signed) D. McNEIL CAMPBELL, Colonel, R.E.,
Secretary to Government.To the Superintending Engineer, IV Circle, with ten enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.

Ed. C. M. Thambuswamy.

P.W. DEPARTMENT.

No. 3560 W. of 11-12-96.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From the Revenue Department No. 4502 Mis. dated 12th November 1896.

Note by the Chief Engineer, dated 7-12-96

The estimate amount-
- ing to Rs 11569, as altered by
the Chief Engineer, for construct-
- ing a corrugated iron ware-
- house at Mangalore in the
South Canara District, is
sanctioned for execution
when funds are available.

2. Attention is drawn to
the Chief Engineer's note record-
- ed above.

3. This sanction has been
registered as Provincial No.
128 W of 1896-97 and classified
as Civil Buildings Original
works.

To
The Supg. Eng. IV circle
" Examiner P.W. accpts.
" Revenue Dept.

Public Works Department.

Current No. 10540
 Letter No. 4502 *Ins.*
 Dated 12th November 1896.
 From the Revenue Department.

TECHNICAL NOTE.

Name of Work Constructing a Corrugated
iron ware house at Chaugalore,
West Coast Division -
 Amount of Estimate, Rs. 11,400.

PARTICULARS OF ESTIMATE.

Main Building _____ Rs. 6,018
 Subsidiary Buildings _____ " "
 Contingencies 147 } "
 Petty Supervision 147 } "
 Land Compensation _____ " 5,382

Total Rupees ... 11,400

PARTICULARS OF CONSTRUCTION.

Surface soil Gravel made soil 1 ft deep.
 Sub-soil Sand for a great depth.
 Foundations 3 ft. deep for main & partition
walls and 4 ft. under columns. Of
the above the top 1 ft. will be of Laterite
stone in mortar & the bottom 2 & 3 ft. respec-
tively will be of Concrete.
 Basement 1 ft. high & will be built of
Laterite stone in mortar.
 Walls 12 ft high & will be made of
Corrugated iron sheets & tarred
inside to a height of 6 ft.

Plastering or Pointing Basement all round
will be plastered with one coat of Portland
Cement 1" thick floated & rendered as
remarked by the Supt. Engr. in the Specification.

Flooring Concrete 4" thick - upper
2" in Cement rendered as per Supt. Engr's
remarks in the Estimate.

Roofing Corrugated iron sheets on
Iron trusses.

Doors and Windows Sliding and will
be made of angle iron framing &c.

Roof timbers Iron.

Scantlings Particulars not given in the
Estimate, but Lump sum is provided
for roof & walls.

Rates Fair as far as masonry part
of the work is concerned.

The plinth area of the main building is
2000 square feet, and the cost per square
foot will be Rs. 5-11-2

The plans and estimates have been countersigned
by the Collector
and the Superintending Engineer.

REMARKS.

With reference to G.O. No. 999W,
of 13th April 1896, the Supt.
Engineer has prepared the plan
& Estimate for the work under
review & submits for sanction
of Government.

The Estimate provides for
Constructing a block of Corru-
-gated iron ware house 80 ft
long, 25 ft. broad & 12 ft. high,
divided into 4 compartments
20' x 25' each with a doorway
to each 8' x 8'.

It

It is stated in the report accom-
panying the Estimate that Messrs
Burn & Co. of Calcutta Estimated
the cost of ^{similar} sheds at Rs. 49 per foot
run delivered at the Port ex-
Steamer all charges borne by
them.

The shed will be constructed on
a raised basement of one foot
above ground level with a
masonry retaining wall all
round as provided in the Estimate.
A Lump sum of Rs. 500 is provided
in the Estimate for erecting the
shed with the ready made iron
trusses &c., the whole of which
will be numbered & sent by
Messrs Burn & Co.

Messrs Burn & Co. in their letter
which accompanies the Estimate,
state that the Columns will
be of Rolled iron joists 6"x3"
with Cast iron shoes securely
fastened to their lower extremity
and wrought iron gussets at the
top for fastening to the trusses.

The trusses, it is stated, will
be made up of two principal
rafters of 3"x2"x $\frac{1}{4}$ "; Iron tie
bar $\frac{1}{8}$ " Dia. & King post $\frac{5}{8}$ "
Dia. The Corrugated iron
will be 20 B.W.G. & supported
by purlins 2 $\frac{1}{2}$ "x2"x $\frac{1}{4}$ " and

on

on the outside by wind ties
 $1\frac{1}{2} \times \frac{1}{4}$ -

In G.O. No. 87
Similar sheds have been sanctioned
for the Ware houses of Tellicherry,
Cochin, Ponnani & Calicut
along the Coast.

I beg however to point out
that for a span of 9 ft between
trusses, a section of $2\frac{1}{2} \times 2 \times \frac{1}{4}$ "
iron purlins is too small.
 $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ will suit -

AC
2/12/96.

The purlins appear weak, it would
be better to make them $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{3}{8}$ "

The estimate may be sanctioned
& attention drawn to the above
remarks.

157
2-12-96

Sanctioned

5/12/96

B.3/12.

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Kindly say whether the cost
of alteration in the size of purlins
suggested by D.W. can be met
from the provision for "Conti-
gencies", and if not to what
amount the total of the estimate
should be increased

B.
The increased Section for
the purlins increases the
estimate by Rs. 169 - & this
amount cannot be met
from the item of Contingency -

The cost of purlins according to the increased quantity
is Rs. 344
Deduct cost for the purlins in the Estimate = 175

Excess Rs. 169

Provision for Contingency — 147 Rs.

AC
2/12/96.

Public Works (1896) Department.

CURRENT No. 10540

Order

From The Revenue Dept

No. 4502 hrs

Dated 12th Nov '96

Received 19.11.96

Enclosures 10 (2 plans)

Spare copies

SUBJECT.

Approving and transferring
to the P. W. D. plans and
estimates for the construction
of a sea customs house
at Mangalore

I am signing
11.11.96
Sd/-

Wm
H. H. H.

BACK PAPERS.

G.O.	No.	Department.	Date.
S.O.	999W	P.W.	13-4-94 ✓
"	2806W	"	7-10-92 ✓

FURTHER PAPERS.

G.O.	No.	Department.	Date.



Proceedings of the Board of Revenue

(Separate Revenue.)

Dated 21st October, 1896.

Mis No. 4370

Read again Board's Proceedings Mis No 2942(S.R.) dated 14th July 1896 remarking that corrugated iron is not a suitable material for the godown to be constructed at Mangalore chiefly for salt storage and stating that the estimate should be revised so far as the walls upto or 9 or 10 feet from the ground are concerned.

Read again also Board's Proceedings Mis No 3800(S.) dated 9th September 1896 informing the Collector of South Canara with remarks that contact of salt with corrugated iron will injure the iron and requesting him to submit the estimate and plans of the proposed Warehouse at once, if the former requires no revision.

Read

Read also the following letter from the collector
of South Canara Disposal No. $\frac{1190}{\text{Exp}}$ of 98 dated
8th October 1896

With reference to Board's Proceedings mis No
1800 (S. R) dated 7th September 1896, I have the
honor to state that the Customs officer of the
port of Mangalore informs me that salt imported
in bags at this port is generally stored not
resting against the walls of buildings but
at a distance of at least 6 inches from them,
the intervening space being filled in with
straw to absorb damp. He further informs
me that the establishment of the public
warehouse might lead to importation and
warehousing of dutiable salt.

2. In his letter No. $\frac{384}{m}$, dated the 2nd
instant, (copy enclosed) the Superintending (copy attached)
engineer states that it would be less
expensive to enlarge the corrugated iron
warehouse so as to make good the space lost
by

by not heaping against the sides than to
construct walls.

3. I therefore request that the plan
and estimate which were received back
with Board's Proceedings mis No. 2942 (S. R)
dated 14th July last, and which the
Superintending Engineer, 4th circle, has now
been requested by wire to submit to you
direct to avoid delay, may be
transmitted to Government for sanction
and allotment of funds.

Read also letter from the Superintending
Engineer 4th circle No. $\frac{403}{H}$ dated 13th October 1896
forwarding plans and estimate amounting
to Rs 11,400 for constructing a corrugated
iron warehouse at Mangalore.

Resolution dated 21st Oct 1896. Mis No. 4270

The plans and estimate for the construction
of a corrugated iron public Warehouse at
Mangalore is submitted for the sanction
of Government with reference to Government
Order

Order No 2320 Revenue dated 14th June 1894. The Board has ascertained from the collector that if the warehouse is used for the reception of salt it is not intended to place it on the bags in which it is contained against the corrugated iron sides which would probably lead to their speedy destruction.

2. The amount of the estimate is Rs 11,400, of which Rs 5,382 is for compensation for private land.

(True copy and Extract)

Assistant Secretary

To The Secretary to Government,
Revenue Department.

with estimate and plans.

Copy to: Collector of South Canara.

[Signature]

OWS.1
10540/96

No 384
m.

Superintending Engineer's office
4th mile, 2nd Cuttack 1896.

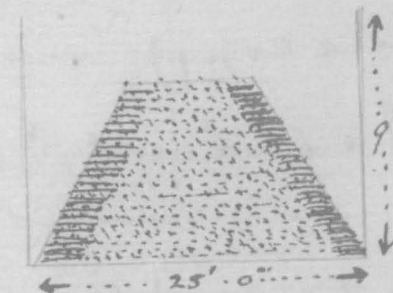
From.

J. Harman Esq.
Supd. Engineer 4th mile.

To. The collector of South Canara.

Sir,

With reference to your letter No 1294 of 25th September 1896 I have the honor to point out that all the other warehouses as per margin along the coast which have been sanctioned by Government and which are intended for the storage of salt have corrugated iron sides. The objection taken by the Board of Revenue would be valid if it be considered necessary to pack the salt against the sides, but in the case of the warehouses already sanctioned this cannot be done for the simple reason that the sides would not stand the pressure. The salt will have to be heaped thus.



It does not therefore seem necessary in the case of the warehouse at Mangalore where there is only a probability of salt storage, to deviate from the plan already sanctioned for the other warehouses. As already pointed out in my letter, No 7604 330 dated 22nd August 1896, if the salt is to be packed

packed to a height of 8 or 9 ft against the sides, the walls will have to be made very thick and the cost of the warehouse will be very considerably increased. It would be less expensive to enlarge the corrugated iron warehouse so as to make good the space lost by not heaping against the sides than to construct walls.

I would suggest a further reference to the Board.
I have to

(Sd) J. H. Hume
Engg Engineer, 4th Grade

(True copy)
(Sd) W. H. Welsh.
Collector.

(True copy)

Commisariat
Assistant Secretary

025.2
10540/96

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read Proceedings of the Board

of Revenue (Separate Revenue) dated 21st October 1896,

No. 4370 Mis.

5 P
Order thereon, 4502, Mis d/12th ^{November} October 1896.

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

(True Extract)

G. H. H.
Ag: Secretary to Government.

To the Public Works Department

with enclosures.

To the Board of Revenue (Separate Revenue)

P.W. Department.
Note by the Chief Engineer. 68

The iron furlins
appear to be weak. It would
be better to make them $3 \times 3 \times \frac{3}{8}$
This alteration will raise the
estimate from Rs 11,400 to Rs 11,569,
and the estimate as thus
altered is recommended for
sanction.

103
C. W.
7/12/54

May