(1) பக்கங்களின் எண்ணிக்கை 18

(2) புதுக்கித் திருப்பிய நாள் 7/10/90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

57

தமிழ்நாடு அரசு

P.W.D. துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 2847

அச்சகம்
பலவகை

நாள் : 27-10-1891

198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

9 Sheets

ஆவண. கா-1—18,006—15-6-87.

(3)

2847/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From the Executive Engineer, Tinnevelly division, to the Superintending Engineer, VI Circle, dated 17th September 1891, No. 2205.

I have the honour to inform you that on receipt of your No. 531 T.W., dated 31st July 1891, directing me to make arrangements for the erection of a goods shed sanctioned in G.O., No. 868 W., dated 24th March 1891, I submitted the sanctioned plan and specification to Messrs. Massey and Co., Madras, requesting them to favour me with their tender for the iron work and also for the execution of the work.

2. This was necessary owing to some alterations having been made in the specification originally submitted to them, to the lapse of time since their first tender was submitted, viz., eight months, and also on account of the sanctioned plan and specification being in a more detailed form than the originals.

3. I have the honour to submit their reply, dated 3rd instant, from which it will be seen that their present tender exceeds their first tender by Rs. 1,145. For their explanation for the increase I was led to further examine the plan to see whether it could not be made less expensive. I accordingly proposed the following modifications of the sanctioned plan and specification to Messrs. Massey and Co. and asking them what reduction they would make in their tender. I enclose their reply, dated 12th instant, which is to the effect that a saving of Rs. 735 could be made on the iron work alone, thus reducing the excess over the sanctioned amount for iron work to Rs. 290 or 3·62 per cent. of the total estimate amount instead of the excess of Rs. 1,145 or 14·3 per cent.

4. The modifications above alluded to are as follows and I think the shed would be amply strong enough as modified:—

(1) Cast iron plates to columns 9″ × 9″ instead of wrought iron plates 1′ 6″ × 1′ 6″. The cast iron plates would, I consider, be amply sufficient and strong enough, effecting a saving of about Rs. 200.

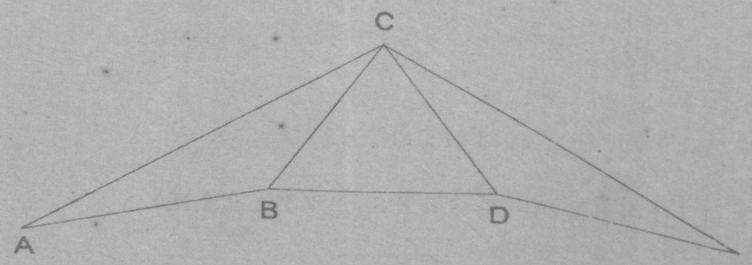
(2) Struts in trusses of ∠ iron $2\frac{1}{2}$″ × $2\frac{1}{2}$″ × $\frac{3}{8}$″ instead of ∠ iron 3″ × 3″ × $\frac{3}{8}$″. The modified section is sufficient to bear the compressive stress in the truss. The original plan only provides the large section so as to avoid using different sections of ∠ iron, that of the purlins being 3″ × 3″ × $\frac{3}{8}$″. The struts of a goods shed of the same span and bay at Tinnevelly Railway station are composed of T iron 2″ × 2″ × $\frac{3}{8}$″.

(3) Purlins of ∠ iron $2\frac{1}{2}$″ × $2\frac{1}{2}$″ × $\frac{3}{8}$″ instead of ∠ iron 3″ × 3″ × $\frac{3}{8}$″. Modified section is, I think, sufficient.

(4) The following alterations in the tie bars:—

A.B. $1\frac{1}{8}$″ bar instead of $1\frac{1}{4}$″ bar.
B.C. 1″ bar instead of $1\frac{1}{4}$″ bar.

The tie bars A.B. and B.C. are unnecessarily strong in the original design. The corresponding bars in the railway shed are A.B. 1" and B.C. $\frac{3}{4}$".



(5) Roof sheets of 22 B.W.G. instead of 20 B.W.G.

5. I have the honour to inform you that I have also addressed the General Superintendent, Public Works Workshops, as to what he could carry out the work for, but as I have not yet heard from him, I have the honour to request instructions as to whether I may accept Messrs. Massey and Co.'s tender of Rs. 8,025, or whether I should submit a deviation statement and accept the reduced tender of Rs. 7,290 or wait for a reply from the workshops.

No. 712 T.N.

True copy, together with plan (the latter to be returned), forwarded to the Chief Engineer for instructions.

2. The undersigned believes that the modifications proposed by the Executive Engineer may be carried out with safety.

3. In case the modifications proposed are approved, it is proposed to give the work to Messrs. Massey and Co. in case the General Superintendent, Public Works Workshops, Madras, cannot supply the iron work for the amount of their tender.

(Signed) J. W. MARTIN,
27th September 1891. Superintending Engineer, VI Circle.

From the Superintending Engineer, VI Circle, dated 23rd October 1891, No. 815 T.N.

ORDER—dated 27th October 1891, No. 2847 W., Public Works.

The modifications in the original design recommended by the Superintending Engineer and the proposal contained in para. 3 of his endorsement above recorded are approved.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, VI Circle. with 7 Encls
" Examiner, Public Works Accounts.
" Marine Department.

Exd. C. A. Munisawmy.
Spare Copies

2847/2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated October, 27th.

Recd. *Encl.*

G.O., 27th Oct. 1891, No. 2847 W.

OCTOBER.

Goods shed at Tuticorin

Certain modifications in the original design for the —, recommended by the Superintending Engineer, VI Circle, approved.

SUPERINTENDENT NOV 7 1891 REVENUE SURVEY

Enc: 5.
2 Letters from messrs Mackay & Co.
1 Sanctioned Estimate
1 Plan.
1 Specification

Copy of letter from the Executive Engineer, Tinnevelly division, to the Superintending Engineer VI Circle No. 2205 of 17th Sept 1891.

2847/3

I have the honor to inform you that on receipt of your No 531 W dated 31st July 1891 directing me to make arrangements for the erection of a goods shed sanctioned in G.O. No. 865 W dated 24th March 1891, I submitted the sanctioned plan and specification to Messrs Mackay & Co, Madras, requesting them to favor me with their tender for the iron work and also for the execution of the work.

2. This was necessary owing to some alterations having been made in the specification originally submitted to them, to the lapse of time since their first tender was submitted viz eight months, and also on account of the sanctioned plan and specification being in a more detailed form than the originals.

3. I have the honor to submit their reply dated 3rd instant from which

it will be seen that their present tender exceeds their first tender by Rs 1145—
For their explanation for the increase I was led to further examine the plans to see whether it could not be made less expensive. I accordingly proposed the following modifications of the sanctioned plan and specification to Messrs Massey & and asking them what reduction they would make in their tender. I enclose their reply dated 12 th instant which is to the effect that a saving of Rs 735 could be made on the iron work alone thus reducing the excess over the sanctioned amount for iron work to Rs 290 or 3.62 per cent of the total estimate amount instead of the excess of Rs 1145 or 14.3 per cent—

4. The modifications above alluded to are as follows and I think the shed would be amply strong enough as modified.

(1) Cast iron plates to columns 9"×9" instead of wrought iron plates 1.6"×1.6"—
The cast iron plates would I consider be amply sufficient and strong enough effecting a saving of about Rs 200.

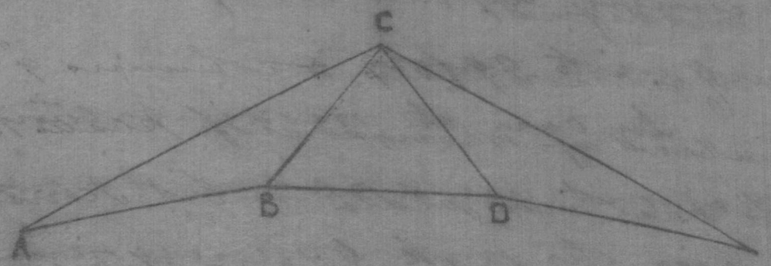
(2) Struts in trusses of L iron 2½" instead of L iron 3"×3"×⅜". The weaker section is sufficient to bear the compressive stress in the truss. The original plan only provides the large section so as to avoid using different sections of L iron than the purlins being 3"×3"×⅜". The struts of a pent shed of the same span and bay at Summerly Railway station are composed of T iron 2"×2"×⅜"—

(3) Purlins of L iron 2½"×2½"×⅜ instead of L iron 3"×3"×⅜" - Modified section is, I think sufficient.

(4) The following alteration in the tie bars—

A B. 1⅛" bar instead of 1¼" bar
B C 1"- bar. —— " —— 1¼" bar.

The tie bars A B and B C are unnecessarily strong in the original design - the corresponding bars in the Railway shed are A B 1" & B C ¾"



2847/11

(3)

...sq of sheets of 22 B.W.G. instead
...20 B.W.G.

5. I have the honor to inform you that I have also addressed the General Superintendent N.W. Workshops as to what he considered carry out the work for, but as I have not yet from him I have the honor to request instructions as to whether I may accept Messrs Macey & Co's tender of Rs 8,025 or whether I should submit a duration statement and accept the reduced tender of Rs 7,290 or wait for a reply from the Workshops -

—

No. 712 T.N. d/27 September 1891.

Five copy together with plans (the latter to be returned) forwarded to the Chief Engineer for information

2. The undersigned believes that the modifications proposed by the Executive Engineer may be carried out with safety -

3. In case the modifications proposed are approved, it is proposed to give the work to Messrs Macey & Co in case the General Superintendent

Encls: 5
1. Sanctioned Plan
1 " Estimate with report
1 " — Specification
2 Letters from Messrs Macey & Co.
5.

N.W. Workshops Medical cannot supply the iron work for the amount of their tender -

27/9/91

Dr. Machin
Supdg: Engineer & Offr.

2847/5

From

The Supg Engineer

VI Circle

To

The Chief Engineer

P. W. D.

Memo No. 4957 C dy 1-12-90
" 6349 C dy 11-3-91
Fr. Bs No 1119 W & 22-4-91
" " " 1260 W & 8-5-91
" H " 566 W & 24-8-91
Memo No 2142 C & 10-4-91
Fr. Bs No 1260 W & 6-5-91
Memo No. 32 C dy 6-1-91.

SUPERINTENDENT NOV 7 1891 REVENUE SURVEY

No 712 TN

Dated 27 } September 1891
Despd. 29 }

Encls 5

Goods Shed at Tuticorin

Requisitions with respect to the modifications proposed as regards the construction of this - & also as regards the tender by Messrs Heaney & Co. for execution work

No. 815 TN.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

Trichinopoly, 23d October 1891

From J. W. Martin Esqr.
The Superintending Engineer,
6TH CIRCLE.

3847/6

To The Chief Engineer
P. W. D.

SIR,

ENCLOSURES.

I have the honor to request that you will be good enough to favor me with your reply to my No. 712 TN dated 27th Sept/91 forwarding for instructions the sanctioned plans for a Goods Shed at Tuticorin, together with the Executive Engineer's report proposing certain alterations in the sanctioned work.

I have the honor to be
Sir
Your most Obed. Servt

J. W. Martin
Supg Engineer 6th Circle

3847 Encls 5
to Chief Engr
Dated 27-10-91

P. W. CURRENT No. 1132/

P. W. D. 6TH CIRCLE.

From

The Superintending Engineer,

6th Circle.

To

The Chief Engineer

P.W.D.

No. 915 T.N.

Dated 28 / 24 } October 189/.
Received 27 }

Enclosures.

Requests reply to his no. 712 TN d 27-9-91 forwarding, for instructions, the sanctioned plan for a goods shed at Intiewin —

Public Works Department.

2847/7

2847/7

Current No. 10406

Letter No. 713 T.N.

Dated 27th September 1891

From the Supdg Engineer IInd Circle.

TECHNICAL NOTE.

Constructing a Goods shed at Intiewin.

An estimate amounting to Rs 8000 was sanctioned in G.O. No. 868 W of 24th March 1891 for constructing a goods shed, 100'×50' using H steel columns at Intiewin

The Exv. Divisional Officer now proposes to make certain modifications owing to certain alterations made in the specification originally submitted to Messrs Manning & Co. and to the lapse of time since they first tendered for the work.

The modifications are as follows.

1. Cast iron plates to columns being instead of wrought iron plates 1'6"×1'6"
2. L iron struts 2½"×2½"×⅜" in stead of 3"×3"×⅜"
3. L iron purlins 2½"×2½"×⅜" in stead of 3"×3"×⅜"

4. Lie bars A.B. 1⅛" diam. instead of 1¼" bars.

Do B.C. 1" diam. — do — 1¼" bars.

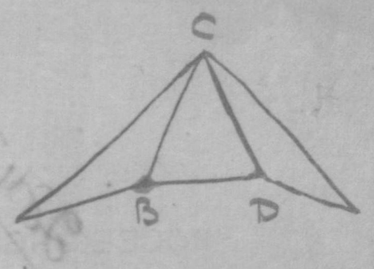
5. Corrugation iron 22 B.W.G instead of 20 B.W.G.

These modifications in both the S.S. and S.Is. enables an ample sufficiency of stiffening energy to be carried out with safety.

If the deviations now proposed by the S.E. be approved and sanctioned the excess on the iron work will be Rs 290 or 3·62 % on the total sanction of Rs 8000.

The General Supdt. P.W. work, should have also been asked as to whether he could execute the work & for what sum. Where report is awaited.

6.X.91.



The modifications in the original design recommended by the S.E. may be accepted & sanctioned

DOB
7.10.91

Div.

The S.E. has not submitted any revised estimate but simply asks for instructions. If the total excess on the original estimate is within 5 per cent, it can be sanctioned by the S.E. under para 267 (d) of the P.W. Code. Otherwise, the S.E. will submit a revised estimate in due course or apply for a sanction to the excess after completion of the work

DOB
10.10

Within 5%. modification may be approved

DOB
10.10

No. 2847 W dy 27 October 1891

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

2847/8

READ the following

From the Supdt. Superintending Engineer VI Circle No. 712 T.R. dy 27th Septr 1891.
" Do - 815-Th - 23 Oct -

The modifications in the original design recommended by the Superintending Engineer and the proposal contained in para 3 of his endorsement above recorded are approved.

DOB
10.10.91.

To
The Supdtg: Engineer VI Circle with 7 Enclosures
" Examiner P.W. Accounts
" Marine Department.

R.S.
Draft

PRIVY COUNCIL OFFICE
OCT 10 2007
SECRETARIAT

10484

Govt. of the Straits Settlements.

PUBLIC WORKS.



27 Oct 91 2878

Grade shed at
=
Tutiwarin
=
~~Near Spinnels~~
certain modifications
in the original design
for the — recommended by the S.E,
Penang, approved

10/
10/14

(9)

2/28/10