

- (1) பக்கங்களின் எண்ணிக்கை 10
 (2) புதுக்கித் திருப்பிய நாள் March 191
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 191

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P. W. D. துறை

அரசாணை எண். 2796 அச்சகம்
 மு. கோப்புத் தாள் எண். பல்வகை

நாள் : 2-11-1893 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

செ.சு.

2796

2ND NOVEMBER 1893, No. 2796 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, VI Circle,
to the Chief Engineer, Public Works Department, dated Trichinopoly, 24th
October 1893, No. 631 T.N.

In reference to G.O., No. 2557 W. of 10th October 1893, I have the honour to
report that I have inspected the pier material advertised for sale by the Madras Rail-
way Company and would recommend that the following items be purchased for use
on the proposed pier at Tuticorin:—

37 piles, 5" diameter 20' long.
74 " 5" " 22' "
19 " 5" " 24' "
75 cast iron screws 2' diameter.

2. The proposed extension of the foreshore to 145 feet beyond the existing high
water mark renders it possible to reduce the iron work of the pier by 5 bays and the
130 piles which I propose to purchase will be sufficient to complete the pier with an
allowance of 4 piles to meet any loss.

3. It will be observed that I do not propose to buy the full number of screws
required; my reason for this is that I consider the size insufficient for those piles
which carry the greater part of the weight and for which I think screws of 3 feet in
diameter should be used. With 2 feet diameter screws, the bearing pressure on the
inner screws would be nearly 11 tons per square foot when the pier is fully loaded,
which is far too great, while with screws of 3 feet in diameter the bearing pressure will
be just under 5 tons per square foot, which is unobjectionable.

4. I estimate that the Madras Railway Company will sell the piles at Rs. 3 a
foot (this allows As. 8 per foot for the cost of cutting the piles to the lengths required)
and the relative cost of the piles will be as follows:—

Rs. 8,472 if purchased as I suggest.

Rs. 31,878 if procured through a contractor.

5. The question of freight to Tuticorin has next to be considered, and here again
I think there must be a considerable saving, for the Madras Railway Company will
deliver the piles into the South Indian Railway trucks at Arkonam.

The amount for freight allowed in the pier estimate is about Rs. 3,000 for piles
alone, and I estimate that at least Rs. 1,500 can be saved on this item alone.

6. The cost of 75 screws from the Madras Railway Company will be Rs. 412,
while if obtained from a contractor they would cost about Rs. 2,360.

There will also be a saving of about Rs. 150 in freight on this item.

7. The total saving in the cost of the pier by utilizing the material available
will be about Rs. 27,000.

2796

2

2. 2ND NOVEMBER 1893, No. 2796 W., PUBLIC WORKS.

8. If these proposals are approved, I beg to request that I may be authorized to purchase from the Madras Railway Company the material referred to and arrange for its being stored at Tuticorin in readiness for the pier work.

9. If tenders are to be called for as recommended in my No. 522 T.N. of 25th September 1893, it will be stated that the material specified is available and must be used in the construction of the pier.

ORDER—dated 2nd November 1893, No. 2796 W., Public Works.

The proposals of the Superintending Engineer are sanctioned.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

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

Copy sent to file.

Encl. C. A. Munisawmy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of {1893} Madras.
PUBLIC WORKS.

Dated November, 2nd.

Recd.

Encl.

G.O., 2nd Nov. 1893, No. 2796 W.

NOVEMBER.

New Pier at Tuticorin

Proposals of the Superintending Engineer,
VI Circle, regarding the purchase of certain
material from the Madras Railway Company
for the —, sanctioned.

63/74.
OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

Trichiopoly, 24th October 1893.

From

Major W. L. R. Baddelley, R.E.
Superintending Engineer,

6th CIRCLE.

To

The Chief Engineer,

PUBLIC WORKS DEPARTMENT.

SIR,

OSURMS.

In reference to G.O. No. 2557 of
10th October 1893, I have the honor to report
that I have inspected the first material
advertised for sale by the Madras Railway
Company and would recommend that the
following items be purchased for use on
the proposed pier at Tuticorin.

37 piles 5" diam. 20' long.

74 " " " 22' "

19 " " " 24' "

75 Cast iron screws 2' diam.

2. The proposed extension of the
foreshore to 145' beyond the existing N. W.
mark renders it possible to reduce the
iron work of the pier by 5 Bays, and the
130 piles which I propose to ^{purchase} ~~construct~~ will
be sufficient to complete the pier, with
an allowance of 4 piles to meet any extra.

3. It will be observed that I do not
propose to buy the full number of piles
required in my reason for this is.

Yours
R. B.

...in diameter should be used. With 2" screws, the bearing pressure ~~on the inner screws~~ would be nearly 11 tons per square foot when the pier is fully loaded, which is far too great, while with screws of 3" in dia. the bearing pressure will be just under 5 tons per square foot, which is unobjectionable.

4. I estimate that the Madras Railway Company will sell the piles at 3 Rs a foot (this allows 8 paise per foot for the cost of cutting the piles to the lengths required) and the relative cost of the piles will be as follows.

Rs 8478 if purchased as I suggest
Rs 31878 if procured through a contractor

5. The question of freight to Tuticorin has next to be considered, & here again I think there must be a considerable saving, for the Madras Railway Company will deliver the piles into the South Indian Railway trucks at Arkonam.

The amount for freight allowed in the first estimate is about Rs 3000 for piles alone ~~from~~, and I estimate that at least Rs 1500 can be saved on this item.

75 screws from the Madras Railway will be Rs 112 while if in a box they would be 360. Then

There will also be a saving of about 150 in freight on this item 20

7. The total saving in the cost of the pier by utilizing the material available will be about Rs 27,000.

8. If these proposals are approved I beg to request that I may be authorized to purchase from the M. R. Company the material referred to, and arrange for its being stored at Tuticorin in readiness for the pier work.

9. If tenders are to be called for as recommended in my CP 522 TN of 25 September 1893 it will be stated that the material specified is available & must be used in the construction of the pier.

2796
4

I have the honor to be Sir

Your Most Obedt Servt

Wm Baddley Major RMC.

Superintending Engineer
Tuticorin

P. W. D. 6TH CIRCLE.

From

The Superintending Engineer,

6th Circle.

To

THE CHIEF ENGINEER,

PUBLIC WORKS DEPARTMENT.

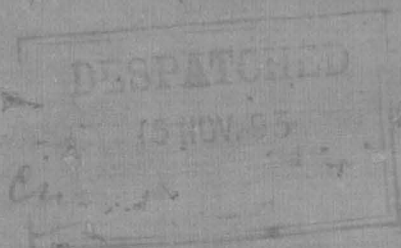
No. 6317N

Dated 24 } October 1893,
Received 25 }

Enclosures.

New Pier at Subicorin:—

Reporting that he has inspected the pier materials advertised for sale by the Madras Railway Company & recommending that certain items be purchased for use on the proposed —



Co. 2557. W. 2/10. 10-93.

S. E. M. Circle

En. P. W. Dept.

Marine Dept.

Cons. Dept.

30/11/93

1/11/93

2796

5

W. 31 Oct

The proposals of the
Supt. Engineer are
sanctioned.

W. 31 Oct
S. 20/11

CN 29000

Govt. of Madras.
PUBLIC WORKS.

4/4/93.

GO 2 Noor 3 37961

New pier at Tuticorin

=

Proposals of the
S. E. A. Co. regarding
the purchase of
certain material
from the M. R. Co.
for the ————

J. C. H. 21

2-4/11

1-4