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(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2059	Press
464-465	Mis.
Dated 18-7-	1865.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Financial Railway
Department, 30th May 1865.*

No. 130. Read the following letter from R. B. ELWIN, Esq., Agent and Manager, Madras Railway Company, to Lieutenant Colonel J. C. ANDERSON, R. E., Consulting Engineer for Railways; dated Madras, 4th May 1865, No. 364.

I have the honor to submit, for the information of Government, the following observations which have been furnished by the Chief Engineer, with reference to the construction of the embankment to connect the Pier at Beypore with the shore.

"Mr. Scott, in reporting progress at the Beypore Pier in December, mentioned that a severe storm which occurred during the month had washed away a large portion of the embankment constructed to connect the Pier with the shore. On making inquiries, it appeared to me that the Staff being used for the embankment was too small and light to withstand anything like rough water, and I requested Mr. Wilkinson to provide heavier material. There appears, however, to be very great difficulty in getting suitable materials; and, on further consideration, and after I had obtained a report on the matter from Mr. Pinson, I arrived at the conclusion that it would be necessary to substitute additional timber bays for the embankment originally proposed; and an estimate* for the alteration is here with forwarded for sanction."

* With a Section No. 148.

2. Under the explanation afforded by Mr. Smart, I shall feel obliged by your obtaining the sanction of Government to the accompanying revised estimate, showing a difference between the outlay, as originally contemplated, and that now proposed, of Rupees 8954.

No. 286.

Observations by the Consulting Engineer for Railways.

The Secretary of State in his Despatch of the 31st July 1863, No. 11, sanctioned the construction of a Pier at Beypore, if it could be done for a sum not greatly in excess of the Railway Chief Engineer's estimate, viz., Rupees 46,331.

Order, No. 453, 11th September 1863.

2. In Order of the 24th November 1863, No. 16, sanction was accorded for the Railway Company's Officers proceeding with the work.

3. With his letter of the 4th instant, No. 364, the Agent and Manager submits a revised estimate for Rupees 55,285, being Rupees 8954 in excess of the former one.

4. The increase in the Timber work and Contingencies amounts to Rupees 10,407-13-0, and the saving in laterite of Rupees 1453-12-0, or a net increase of Rupees 8954-1-0.

5. I have lately inspected the work, and consider the proposed substitution of nine additional bays for the solid embankment faced with laterite to be necessary. Not only has experience shown that the latter is incapable of standing against the lateral sweep of the waves, but even if it could be rendered secure, it could not fail to have an injurious effect, by producing deposits of sand, and by generally reducing the area of the basin into which the Pier is carried.

6. I, therefore, recommend that the additional sum of Rupees 8954 be sanctioned by Government.

7. I forward, together with these Observations, a Report of Captain Lindsay on the Pier, of the 14th March last, No. 14, and the Agent and Manager's reply, of the 22nd ult., No. 327.

(Signed) J. C. ANDERSON, Lieut. Col., R. E.,

Consulting Engineer for Railways.

MADRAS, 22nd May 1865.

To the Chief Secretary to Government, Fort Saint George.

From Captain J. G. LINDSAY, R. E., Deputy Consulting Engineer for Railways, to Lieutenant Colonel P. P. L. O'CONNELL, R. E., Consulting Engineer for Railways; dated Madras, 14th March 1865, No. 14.

I have the honor to report that, in accordance with your instructions, I inspected the Beypore Pier on the 8th instant.

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*Proceedings of the Madras Government, Financial Railway
Department, 30th May 1865.*

2. Eight of the large openings and six of the small ones have been completed, making together 252 feet in length. Planking has been completed over four of these openings. Two Pile engines are being used, one working outwards and the other towards land; the piles are driven from 7 to 9 feet in, and take about 4 or 5 hours each to drive.

3. The embankment is finished, and the permanent way laid from the junction with the main line to the sea, and a further portion was completed to a distance of about 60 feet; but this was entirely washed away in December last.

4. The Resident Engineer is at present looking for larger masses of stone to throw in, the pieces of ballast which were used before not being heavy enough for the purpose.

5. The length of bank still requiring to be formed is 234 feet. I was sorry to observe that insects have already commenced their work of destruction on the piles. The timber is Erool (*Inga xylocarpa*) and is not preserved in any way; in fact it is too hard a wood to admit of the process. The Kudduloondhy Railway bridge is constructed with the same wood and has, as you are aware, suffered very much, the greater portion of it having had to be renewed. I have brought for your inspection a piece cut from one of the Kudduloondhy bridge piles. The insect, I believe, is the "Teredo Navalis."

From R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, to Captain J. G. LINDSAY, R. E., Deputy Consulting Engineer for Railways in charge; dated Madras, 22nd April 1865, No. 327.

Adverting to Lieutenant Colonel O'Connell's letter, No. 231, dated the 15th ultimo, I have the honor to quote as follows from a communication, No. 198, of this date from the Chief Engineer.

"I beg leave to offer the following remarks on Captain Lindsay's Report. About a year and half ago, I requested Mr. Grubb to place some wood impregnated by Boucherie's Apparatus in the Kudduloondhy river, for the purpose of ascertaining if it would be attacked by the insects that are destroying the piles of the Kudduloondhy bridge. I have recently made inquiries as to the result of the experiment, and find that the wood has been attacked. Other methods of protecting the timber against the attacks of these insects have suggested themselves to me, but I have seen reason to reject them all in succession. I have procured some specimens from the Western Coast and have ascertained from Captain Mitchell, of the Government Museum, that the insect is not the Teredo Navalis, but a Crustacean of the genus Sphaeroma; and as the crust formed by itself, under cover of which it works, seems indispensable to its operations, it has occurred to me that if we cannot arrest, we may at all events very much delay the destruction of the piles, by keeping them clear of this crust. I have, therefore, desired Mr. Wilkinson to keep a man constantly at work scraping off the incrustations."

"2. Regarding the embankment which has been washed away, I find that material capable of resisting the action of the waves is not procurable, and I have therefore resolved to recommend an extension of the timber bays in land. The extra expense will be about 8000 Rupees; and an estimate and plan will be submitted in the course of a few days."

No. 131. ORDER THEREON, 30th May 1865, No. 327.

Under the explanation furnished by the Chief Engineer of the Madras Railway, His Excellency the Governor in Council sanctions the revised estimate for the construction of the Pier at Beypore, amounting to Rupees 55,285, being Rupees 8954 in excess of the estimate (Rupees 46,331) submitted by the Agent and Manager, under date the 12th January 1863.

(True Extract).

Signature of A. L. Subramaniam

Chief Secretary.

To the Consulting Engineer for Railways (with enclosure).
Exd. J. H. Burns.

True Copy
J. Wilkinson
Consulting Engineer for Railways.

*Proceedings of the Madras Government, Public Works Department,
18th July 1865.*

No. 464. Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Consulting Engineer for Railways, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Bangalore, 11th July 1865, No. 330 :—

SIR,

I have the honor to forward, for your information, a printed copy of the Proceedings of Government, in the Financial Railway Department, of the 30th May last, No. 327, sanctioning an additional sum of Rupees 8,954 for the construction of the Pier at Beypoor, and copy of a letter from the Agent and Manager Madras Railway, intimating that the money will not be required for some months.

No. 465. ORDER THEREON, 18th July 1865, No. 2,059.

CIVIL WORKS, No. 62.

Ordered to be recorded.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Consulting Engineer for Railways.
,, Financial Railway Department.
,, Superintending Engineer, 7th Division, } with Financial Railway Procs. No. 327 of 1865.
,, Controller of Public Works Accounts, }

Exd. S. T. Augustin.

18 July 1865

N^o 493.

To The Consulting Engineer
for Railways

Sir,

I have the honor to
state with reference to the enquiry
contained in your letter of the 5th
instant N^o 165, that I have
still in hand a large proportion
of the Original sum sanctioned
for the Construction of the Deypor
Pier, and therefore shall not per-
mit for some months to draw
upon Government for the additional
sum of Rs 8,954. --- I have the

Maidan
8th July/185

/s/ R. D. Chinn-
Agent and Manager-

/ True copy/
J. W. Hanson Esq. R. E.
Care of the Agent

77
Railway Department Consulting Engineer's Office
No 330.

From
Messrs M. Anderson & Co
Consulting Engineer for R.G.
To Col. C. A. Orr. R.C.
Secretary to Govt. P.W.D.
Fort St George

Sir, I have the honor to forward, for your information, a printed copy of the Proceedings of Government, in the Financial & Railway Department, of the 30th May last, No 327, sanctioning an additional sum of Rs. 8954. for the construction of the Pier at Beypoor, and copy of a letter from the Agent and Manager
Messrs.

4077 2565/6-5

Mavras Railway intimating that
the money will not be required
for some months.

I have the honor to be,

Sir,

Bangalore
11th July/85

Your most obedt Servant.

J. Anderson Esq R.C.

Consulting Engineer for R.G.

Recd

21. no 2059

Ordered to be

Recorded.

[Signature]

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Forth & Leith
18th July 1865

3 To the Consulting Engineer for Railways

11 To the Financial Railway Dept

7 To the Sup^r Engineer J^r Smith Financial
Controller P^ro^r Accounts Railway Dept
10527 of 1865

Leaff^r 19th July

Recd

12th

To W. 1865 Dep't
Pro: of Govt for July
The Consulting Engineer
for Railways.

To
The Secretary to Govt.
P. W. D.

Dated 11th } July 1865.
Rec'd 13 }

No. 330.
Encls: 2.

Forwarding a
printed copy of the
Pro: of Govt. sanctioning
an additional sum of Rs. 87,500
for the construction of
the Pier at Rangoon.

No. 464 + 465

With an Order

2059-187 July 1865

15th July 1865 D. 15th