

(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.	1733	Press
536-537		Mis
Dated	22.6.	1865.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
22nd June 1865.*

No. 536. Read the following Endorsement of the Superintending Engineer, 7th Division, dated Coonoor, 1st June 1865 :—

Read the following letter from Lieutenant-Colonel J. C. ANDERSON, R. E., Consulting Engineer for Railways, to Lieutenant-Colonel G. W. WALKER, R. E., Superintending Engineer, 7th Division, dated Madras, 29th May 1865, No. 236.

* No. 1,666, dated 20th May 1865.

SIR,
I have the honor to forward copy* of communication, received from the Agent and Traffic Manager, of the Great Southern of India Railway, relative to the bursting of the Vattamangalam tank near the 14th mile 5 chains of District No. 3, on the Errode extension, with a view to your giving consideration to the suggestions of the Chief Engineer in paragraph 3 for the proper repair and construction of a calingulah in the tank.

From W. S. BETTS, Esq., Agent and Traffic Manager, to Lieutenant-Colonel J. C. ANDERSON, R. E., Consulting Engineer for Railways, dated Negapatam, 26th May 1865, No. 1,666.

SIR,
I have the honor to request that you will lay before Government the attached copy of a letter from the Chief Engineer relative to the bursting of the Vattamangalam tank near 14th mile 5 chains of District No. 3 Errode Extension, with a view to the issue of orders for substantial repairs being at once put in hand.

From D. LOGAN, Esq., Chief Engineer, to W. S. BETTS, Esq., Agent and Traffic Manager, dated Trichinopoly, 22nd May 1865, No. 5,045.

SIR,
1. Mr. Rayne writes (under date the 20th instant), "A very large old tank spilling into the Vellavarra, which is spanned at 14th mile 5 chains by four 15 feet arches, burst on Wednesday night last, during the tremendously heavy rains which then fell."

"The piers of this bridge are about 12 feet high yet the water rose to within 2 feet of springing, though the embankment was only closed up to the west abutment."

"From this an idea may be formed of the tremendous body of water that came down the valley, such that no reasonable amount of bridging could provide against. The tank will be again repaired no doubt, and I beg leave to suggest that it might be well to urge upon the Government to have it done in such a manner and such a calingulah provided as will prevent a recurrence of what would infallibly breach and carry away a good portion of our road and probably the bridge too. The tank is called the Vattamangalam tank. The bridge received no damage, but a good many store sheds, &c., including a Telegraph post or two were washed down and carried into the river Cauvery."

2. Will you be good enough to bring this matter to notice in the proper quarter.

(True Copy.)

(Signed) W. S. BETTS,
Agent and Traffic Manager.

(True Copies.)

(Signed) J. C. ANDERSON, Lieut.-Colonel, R. E.,
Consulting Engineer for Railways.

1. To the Secretary to Government, Department Public Works, for information, with reference to letter from Superintending Engineer, 7th Division, No. 20 of 24th May.

2. The size of the calingulah proposed for Vattamangalam tank may require further consideration, with reference to this communication; but it must be remembered that other tanks above the Vattamangalam tank had breached first.

In anticipation of any possible claims for damages done to Railway property by floods here or elsewhere, the undersigned has to remark that this Department is not placed in possession of any of the data from which the water way of Railway bridges is determined, and is consequently uninformed whether the existence of tanks and their state of repair has been duly taken into consideration.

(Signed) G. W. WALKER, Lieut.-Colonel, R. E.,
Superintending Engineer, 7th Division.

Proceedings of the Madras Government, Public Works Department,
22nd June 1865.

No. 537.

ORDER THEREON, 22nd June 1865, No. 1,733.

CIVIL WORKS, No. 82.

1. These papers relate to the danger to which the works of the Erode extension of the Great Southern of India Railway, in the 14th mile of District No. 3, were exposed by the bursting of the Vattamangalam tank, and further more to the means to be adopted to preserve the Railways from damage from similar accidents.

2. It does not appear to the Government that they are called upon at present to consider the general question which the Superintending Engineer of the 7th Division has raised in the last paragraph of his endorsement on Colonel Anderson's letter above recorded. All that it is now requisite to do is to place all tanks, from which damage to the Railways can possibly arise, in thorough repair, and to provide them with suitable calingulaks.

3. The Superintending Engineers will give their immediate and particular attention to this, and, in communication with the Consulting Engineer for Railways, will consider what amount of water way has been provided by the Railway Engineers for their lines wherever they intersect great drainage outfalls, and will bring to the notice of Government any cases where, in their opinion, inadequate water way has been allowed.

4. These papers will be communicated, through the Financial Railway Department, to the Consulting Engineer for Railways, and Colonel Anderson will be careful when new Railway plans come under his consideration, to communicate with the Superintending Engineers regarding the sufficiency of the outlet for floods therein provided for.

(True Extract.)

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

To the Superintending Engineer, 7th Division.
Financial Railway Department.
To all other Superintending Engineers (1st and 2nd excepted).

Exd. S. T. Augustin.

27/5-65
No 1666

Great Southern of India Ry
Agents Office
Negapalam 28 May 1865

So

The Consulting Engineer
for Railways

Sh

I have the honor to request
that you will lay before Government the
attached copy of a letter from the Chief Inspr
relating to the bursting of the Vattamangalam
Tank near 14. M. 5 Chs of District No. 3 Erode
Extension; with a view to the issue of Orders
for substantial repairs being at once put in
hand

I have &c.

Signed W. S. Betts

Agent and Traffic Manager

Tuchinopolis

Tiruchirappally 22 May 1865

No 5545

W. S. Betts Esq. M.E.

My dear Sir,

Mr. Rayne writes (under date the 20th instant) "A very large old tank spelling into the Vellavanna which is spanned at 14 miles 5 chains by 4. fifteen feet arches. burst on Wednesday night last during the tremendous heavy rains which then fell"

"The piers of this bridge are about 12 feet high yet the water rose to within 3 feet of springing - though the embankment was only closed up to the west abutment"

"From this an idea may be formed of the tremendous body of water that came down the valley such that no reasonable amount of bridging could provide against. The tank will be again repaired no doubt and I beg leave to suggest that it might be well to urge upon the Government to have it done in such a manner and such a Calengala provided as will prevent a recurrence of what would infallibly breach

"and carry away a good portion of the road and probably the bridge too. The tank is called the Vaitammagaluni tank". The Bridge received no damage but a good many stone sheds &c including a Telegraph post or two were washed down and carried into the Cannery"

Will you be good enough to bring this matter to notice in the proper quarter -

Yours truly

Signed David Lagan
Chief Engineer

/ True Copy /

Signed W. S. Betts
Agent and Traffic Manager

/ True Copies /

Signed J. B. S. S. S. S.
Consulting Engineer for Railways

Consulting Engineer for Railways

84/566, 1166

By ²⁷31-5-65 Railway Deptt.

Consulting Eng^r Office.

No 236.

From,

Hall: J. C. Anderson R. E.
Consulting Engineer for Railways.

To

The Superintending Engineer,
7th Division,

Coimbatore.

Sir

No 1666 of 20 May
1865.

I have the honor to forward
* Copy of communication received from
the Agent and Traffic Manager of the
Great Southern of India Railway
relative to the bursting of the Vailamun-
galum Tank near the 14th Mile S. Dis.
of District No 3 on the Erode Ex-
tension with a view to your giving
consideration to the suggestions of
the Chief Engineer in Form: 3 for
the proper repair and construction of
a Calenfula in the Tank.

I have the honor to be,

Sir,

Your most obedient servant

Madras
29th May 1865.

J. C. Anderson

Hall R.

Consulting Engineer for Railways.

The size of the Calingula pro-
posed for Natamungalum Ranch
may require further considera-
tion, with reference to this
communication. But it may

Dear Sir,
 I have your letter
 of the 29th inst.
 received. I have
 the pleasure to
 inform you that
 the same has been
 forwarded to the
 proper authorities
 for their consideration.
 I am, Sir, very
 respectfully,
 Yours,
 J. B.

be remembered that the tanks
above the Vattamangalam Tank
had breached first.

In anticipation of any possible claims for damages done to Railway property by floods here or elsewhere, the undersigned has to remark that this Dept. is not placed in possession of any of the data furnished. The Waterway of Railway Bridges is determined - and is consequently uninformed whether the existence of Tunks and their state ^{of repair} has been duly taken into consideration -

more }
June 1868 }
Walker L. J.
Supper 7/23 }

2100

2000 1865. De la
 (Hof. d. Gm. d. d. d. d. d.)
 Hund, 1869.
 Die d. d. d. d. d.

* Col: MacKen in his discourse of Science and dangers may be
 depending on other directions. But don't accept of narrow
 calculations, & the under-estimation of the
 effect - said brother in view to the immediate enlargement
 of the palimpsest of every the thought - in 25c.
 For the future, it seems clear that the course supported
 of the Hon Mr. Pycroft - must result in turning the cotton
 17 Decem.

ment from the Superintending Engineer
7th Division, dated 1st June 1865

Submitting with remarks corresponding
ence from the Consulting Engineer for
Railways relative to the Bureting of the
Vailamangalam Bank.

Circulated for the orders of
Government

Memorandum.

A question of great importance is raised in these papers as to the obligation which Government, it appears, is supposed to be under of guaranteeing Railway Companies against any damage to their works from floods which may be occasioned, or aggravated by the bursting of canals. The Railway Engineers doubtless carefully calculate the amount

~~Signature of me / w. has raised~~

104 June 1865 Q. 12
104 June 1865 Q. 12
104 June 1865 Q. 12

amount of water way it is necessary
to give their roads from data based
on the areas of the drainage basins
their lines have to be carried across,
and the maximum known rain fall;
but they probably, or rather certainly,
do not take into consideration the effect
of the bursting of a large tank, or of a
series of tanks, nor provide for the
safe passage of the floods such
accidents create. Tanks do give way
in spite of all care and although
they may have ample Calingulaks,
and when, as generally happens,
they form a series lining the course
of a valley, and the failure of one
involves the giving way of a succession
of others, there ensues a flood

into consideration -

Common
1st June 1868
M. W. L. K. J.
J. W. L. K. J.

before which no amount of water
way to a road spanning the valley
will suffice to ensure the line from
destruction. The tanks having been
in existence long before the
Railway was thought of, the
point is, how far is the Govern-
ment to be responsible for damage
to the latter from accidents to the
former, from causes over which
there can be no possible control.

For the purpose of
9th June 1865

Amal S. M.

Col. R.

Recd. 10th June 1865

It does not appear to me that we are
now called upon to deal with the
above proposed question - It is
the case that the proposed is to be
can that the tanks which have

find built and the series of tanks
 above it are provided with suitable
 catchpools and the conservation
 of the tanks can be fully attended to.
 If in spite of all this the tanks under
 the pressure of unprecedented flood
 do break & injure the railway bridge
 and the embankments in the future
 help it - but should in my opinion be
 held answerable. but as already said
 in regard to the entire of the previous
 it seems to me that when ^{the plan of} the railway
 works come under the consideration of
 the Comd. Engrs & the Comd. Engrs of
 the S. E. Division it is communicated with
 his opinion as to the extent of water-
 -way for the tank & the nature of the
 -tion of the S. E. being at the same time
 called to the attention of the Comd. Engrs
 his works above the railway in the
 order.

The legal question has not been raised by Mr. D.
 Logan, who seems to think that the adoption
 of precautionary measures; but there is no doubt, I think,
 that it must soon come upon the foot of a common
 decision. Meanwhile, as the Comd. Engrs have not been
 consulted on the point mentioned by
 into consideration.

Corrected
 1st June 1868
 M. W. L. H. L. L.
 Supd. Engrs.

Civil Works

Public Works Dept.

No 1733

Proceedings of the Madras Government

Madr. doct. the 22nd June 1865

Read the following

From the Consulting Engineer
 to the Supd. Engrs. for Railways. this

Forwarding copy of a
 Communication from the
 Agent and Traffic Manager
 of the G. S. of India Railway
 relative to the bursting of the
 Sathamangalam Tank.

There enters 29th May 1865
 No 2361

HM
 JP
 W. L.

These papers relate to the
 danger to which the works of the
 Great Southern
 of India Railway, in the 14th
 mile of District No 3, were ex-
 posed by the bursting of the
 Sathamangalam Tank, & further
 more to the means to be adopted
 to preserve the railways from damage
 from similar accidents.

It does not appear to
 the Government that they are called
 upon at present to consider the
 general question which the Supd.
 Engineer of the G. S. has raised

in the last Para of his en-
dorsement on Col. Anderson's
letter above recorded. All that
it is now requisite to do is to
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to the railways can possibly arise,
in thorough repair, & to provide
them with suitable Casingulaks.

The Supt Engineers will give their immediate & particular attention to this, & in communication with the Consulting Engineers for Railways, will consider what amount of waterway has been provided by the Railway Engineers for those lines wherever they intersect great drainage outfalls, & will bring to the notice of Government any cases where, in their opinion, inadequate waterways has been allowed.

Three papers will be
communicated, thro' the Financial
Railway Dept, to the Consulting
Engineer for Railways, & Col. An-
derson will be careful when now

1.^{re} Juze 1805

Railway plans come under his consideration, to communicate with the Supt. Engineers regarding the sufficiency of the outlets for floods therein provided for.

W.B.

23rd June

I do

The L & N

" First Railway Dept.

1860 All other Safety Equip^t (1st & 2nd year 1869)

No 1868 Dept
No: of Govt for June

No 1233

No: of the M Govt
of 2^d June 188

Correspondence
relative to the
the Vatanangalam
tank & Coimbatore Dt
and the damage done
thereby to the
Works of the proposed
extension of the great
Southern of India
Railway - With
orders thereon.

No 506.537