M.R.O. 1—10,006—28-2-50.

(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. 2626-27 Press & Original
B.P. ~~No.~~ ~~Mis.~~

Dated 28. 9. ~~195~~ 1876

Not to be folded or roughly handled

No. 539. Read the following letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 22nd September 1876, No. 465 :—

With Plan No. 200.

With reference to the Proceedings of Government, No. 1,723, dated 6th July 1876, I have the honor to submit for sanction an estimate of the cost of constructing three 30 feet openings, in addition to the single 30 feet arch, at the 116th mile, 5th telegraph post, on the North-west Line of the Madras Railway.

2. The question of increasing the waterway provided in the railway embankment below the Jellalamadaka tank has been carefully considered with special reference to the conditions to be fulfilled, as recorded in the Proceedings of Government above quoted; and in bringing forward the present proposal, the Acting Chief Engineer submits the following explanation :—

"The 30 feet arch referred to is not capable of discharging 2,611 feet of water per second; 210 square feet of waterway are available, which, at a mean velocity of 6 feet per second, gives a discharge of 1,260 feet. However, as the large weir of the Kurlagoontla tank (81 feet × 4 feet) also discharges through this arch, the amount of water to be provided for is 2,611 + 2,311 = 4,922 feet per second.

"With a depth of 7 feet and a velocity of 6, the waterway required would be 117 feet, and even with this it will be necessary to bank in a portion of the stream near the bridge to prevent the country from being inundated.

"The Jellalamadaka tank breached in 1872, and the flood rose far above the springing of the arch.

"In 1874 the flood again rose above springing, but on neither occasion was the bridge on the line injured."

3. I am satisfied that the work is required, and request that the sanction of the Government of India may be obtained to the estimated expenditure of Rs. 19,449.* As the security of the railway is involved, I have authorized the commencement of the work in anticipation of sanction.

	Capital.	Revenue.
	RS.	RS.
* Indian	8,209	2,406
English	8,182	652
	16,391	3,058

4. The Capital portion of the expenditure will be met from Schedule B "Unforeseen Requirements," and that against Revenue from Schedule G of the Budget Estimate for 1876-77. The sanction will lapse at the end of the eighth quarter after its receipt. The work has not been entered in any of the half-yearly schedules.

Proceedings of the Madras Government, Public Works Department.
28th September 1876. *No.* 2,626.

No. 540. ORDER THEREON, 28th September 1876, No. 2,626.

RAILWAY, No. 57.

ORDERED that the plans and estimates be forwarded for the sanction of the Government of India. The commencement of the work in anticipation of sanction is, under the circumstances, approved.

(Here enter No. 2,627, dated 28th September 1876.)

(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

To the Consulting Engineer for Railways.
" Examiner of Railway Accounts.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, *28th September* 1876.

No. 541. No. 2,627.

FROM
MAJOR-GENERAL G. W. WALKER, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To
THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department.

RAILWAY, No. 58.

SIR,—I am directed to forward herewith, for the sanction of the Government of India, a plan and estimate, amounting to Rupees 19,449, for constructing three 30 feet openings at the 116th mile, 5th telegraph post, on the North-west Line of the Madras Railway. The necessity for the additional waterway proposed to be provided is fully explained in the Proceedings quoted in the margin, copies of which I am to enclose for information. The work being of great urgency, the Consulting Engineer has, in anticipation of sanction to the estimate, authorized its commencement, and this course has been approved by His Grace the Governor in Council.

G.O., No. 1,102, dated 4th May 1876.
" " 1,423, " 7th June "
" " 1,723, " 6th July "

I have the honor to be,
Sir,
Your most obedient servant,

Colonel,
Offg. Under Secy. to Govt., P.W.D.,
for *Secretary to Government.*

Exd. E. C. Shunker.
Spare Copies.

RAILWAY DEPARTMENT.

CONSULTING ENGINEER'S OFFICE,

Madras, 22nd September 1876.

No. 465

From

LIEUT.-COLONEL J. H. M. SHAW-STEWART, R.E.,
Consulting Engineer for Railways,

To

MAJOR-GENERAL G. W. WALKER, R.E.,
Secretary to Government,
Public Works Department,
Fort Saint George.

SIR,

With reference to the Proceedings of Government No. 1720 dated 6th July 1876, I have the honour to submit for sanction an estimate of the cost of constructing three 30 feet openings, in addition to the single 30 feet arch, at the 116th mile 5th telegraph post on the North-west line of the Madras Railway.

with plan No. 200

2. The question of increasing the waterway provided in the railway embankment below the

the Pellalamadaka tank has been carefully considered with special reference to the conditions to be fulfilled, as recorded in the Proceedings of Government above quoted; and in bringing forward the present proposal the Acting Chief Engineer submits the following explanation.

"The 30 feet and "referred to is not capable of "discharging 2611 feet of water "per second. 210 square feet of "waterway are available, which "at a mean velocity of 6 feet "per second gives a discharge "of 1260 feet. Between the "large weir of the Kowlagatta "tank / 81' × 4' / the discharge "through this arch, the amount of "water to be provided for is 2611 "+ 2311 = 4922 feet per second.

"With a depth of seven "feet, and a velocity of 6, the "waterway required would be 117 "feet, and even with this it will "be necessary to bank in a "portion of the stream near the "bridges to prevent the country "from being inundated.

"The Pellalamadaka "tank breached in 1872, and the "flood rose far above the spring- "ing of the arch.

"In 1874 the flood "again rose above springing but "on neither occasion was the "bridge on the line injured."

3. I am satisfied

that

that the work is required, and request that the sanction of the Government of India may be obtained to the estimated expenditure of Rs 2,449*. As the security of the railway is involved, I have authorised the commencement of the work in anticipation of sanction.

4. The Capital portion of the expenditure will be met from Schedule B "unforeseen requirements" and that against Revenue from Schedule G of the Budget estimate for 1876-77. The sanction will lapse at the end of the eighth quarter after its receipt. The work has not been entered in any of

* Capital Indian Rs. 2,309
English Rs. 139
17,391

Revenue Indian Rs. 2,406
English Rs. 653
3,058

of the half-yearly schedules.

I have the honour to be

Sir

Your most obedient servant

Muirhead
Lieut. R.E.
Consulting Engineer for Railways

Public Works Department.

No 26

PROCEEDINGS of the MADRAS GOVERNMENT.

Dated the 28 Sept 76

READ the following:—

From
The Consulting Engineer
for Railways,
Dated 22nd September 1876.
Received
No. 4165

Submitting plan and estimate of the cost of constructing 3 short spurs in addition to the single 30 feet arch at 1160 under Mr Stevenson's Project of the Nellore

Endorsement
No 530
Civil Engl. 9.76 Date 28.9.76
Despd 6 Oct 23-5-76.

P.W.D.
23/1876

284-5-76 No 1102
7-6-76 " 1423
26-6-76 " 1618
6-7-76 " 1723
18-8-76 " 2170.
31-8-76 " 2318.

RAILWAY DEPARTMENT.

Sanction of the Govern=
=ment of India a plan
and Estimate amounting
to Rs: 19449 for constructing
three 30 feet openings at the
116th mile 5c Telegraph post.
on the North West line of
the Madras Railway. The
necessity for the additional
waterway proposed the
provided is fully explained
in the Proceedings quoted
in the margin, Copies of
which I am to enclose
for information. The
work being of great urgency
the Consulting Engineer
has, in anticipation of
Sanction to the Estimate
Authorized its Commence=
=ment; and this course has
been approved by His Grace
the Governor in Council.

No. 139/41

Xv attd

* G.O 1102 d/4th Jany 1876
" 1423 " 7th June "
" 1723 " 6th July "

Certd true attd Secretary.
14/10/76

6871.

Govt. of Madras.

PUBLIC WORKS.

To

The Comr. Land Revenue &c &c &c

Dated

Recd. Encl.

G. O., 28th Sept. 1876, No. 2528

Nos. 5 to 21

Estimate for constructing three 30 feet openings, in addition to the single 30 feet arch at the 116th mile on the North West Line of the Madras Ry.

Ordered to be forwarded for the sanction of the Govt. of India.

Letter forwarding for sanction

14/10/76

Plan & Estimate for constructing three 30 feet openings, in addition to the single 30 feet arch at the 116th mile on the North West Line of the Madras Ry.

Xo attd.