

(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. 3385	Press
213-218	Mis.
Dated 11-11-	1865.

Not to be folded or roughly handled

25/12/11

10

*Proceedings of the Madras Government, Public Works Department,
11th November 1865.*

Read the following papers:—

No. 213. Proceedings of the Board of Revenue.

Submitting letter and Memorandum from Major Applegath of the Staff Corps, and recommending that a professional opinion be taken on his proposals for rendering the rivers of the Madras Presidency navigable. } (Here enter 14th October 1865, No. 6,537.)

No. 214. From Major F. APPLEGATH, Madras Staff Corps.

Submitting certain proposals for the improvement of the navigation of the Kistna between Bezwarah and Mooktiala. } (Here enter 18th October 1865.)

No. 215. ORDER THEREON, 11th November 1865, No. 3,385.

CIVIL WORKS, No. 33.

As the description and specifications which accompany, or are contained, in the letters above recorded are of too general a nature to admit of a proper opinion being formed of the merits of Major Applegath's inventions, the Government do not think it advisable to forward Major Applegath's papers to the Government of India, and they will accordingly be returned to him.

(True Extract.)

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

To Major F. Applegath, with eight Enclosures.
To the Board of Revenue.

Exd. S. T. Augustin.

proper opinion being

PROCEEDINGS OF THE BOARD OF REVENUE, dated 14th October 1865.

Read the following letter from Major F. APPELGATH, Staff Corps, to R. A. DALYELL, Esq.,
Acting Secretary to the Board of Revenue, dated Masulipatam, 27th September 1865:—

1. I shall be much obliged if you would be kind enough to submit the enclosed for the favorable consideration of the Board of Revenue.
2. The subject of a water transit for India having been pointed out by Sir Arthur Cotton in his work at page 256, and my suggestions in some measure coinciding with the views of that talented officer, must plead my excuse for again troubling you.
3. I may take the liberty of mentioning that I am just about to forward to the Supreme Government, at their request, a plan and estimate for bringing into use one of my inventions; but I am not sanguine enough to believe that it will be sanctioned, unless it is supported by the Board of Revenue.
4. The cost of rendering our rivers navigable is not much; but these iron canals laid in the bed of our rivers will, I am confident, answer for a steam communication for at least six months out of every year.
5. The last suggestion that has occurred to me is that these iron canals will only require the rods to be placed about every fifty feet or less to keep the sides of the canal in the required position, and that iron plating in the bed of the one-hundred feet canal is not necessary, and further that cast iron sheeting covered with the new iron paint (iron minium) will answer just as well as wrought or rolled iron, and cost only about one-third of the price, and that these iron canals made as I have proposed one-hundred feet wide and five feet of water, after having most carefully estimated them, will not cost more than 15,000 Rupees a mile.
6. The iron plating covered with minium will not rust either in or out of the water, and that the canal would not be materially injured by the freshes; it might silt up a little at any curve, or require to be re-bedded in the sand by having become too slanting or too perpendicular, but the banks would not be injured by the canal being navigated by steamers, and I really believe, that if constructed, it will yield all the advantages enumerated in paragraph 11 of the printed Memorandum enclosed.
7. I have often ascertained in the hottest weather, that, although the greater part of our Indian river beds visible is dry sand, still with only a few inches excavation you come to water, and this has induced me to believe that, when once these canals are established, the navigation up and down will be nearly in still water as far as the current is concerned, or at least it will not exceed one mile an hour: a great desideratum in steam navigation.

ENCLOSURE No. 1.—Memorandum.

The foregoing letter and Memorandum will be submitted to Government, with the Board's recommendation, that a professional opinion be taken on Major Applegath's proposals.

(A true Copy and Extract.)

R. A. Dalzell

Acting Secretary.

To W. Hudleston, Esq., Acting Secretary to Government, R. D.,
with enclosure,

Copy to Major F. Applegath.

Exd. J. Wright

proper opinion being

Public Works Department

Proceedings of the Madras Government
Under date the 11th November 1865.
Read the following.

Proceedings of the Board
of Revenue.

Submitting letter and memo:
from Major Applegath of
the Staff Corps, and recommend-
ing that a professional opinion
be taken on his proposals for
rendering the rivers of the Madras
Presidency navigable.

From Major Applegath
Madras Staff Corps

Submitting certain proposals
for the improvement of the na-
vigation of the Pothner between
Gozionah and Noothala.

J. E. 14th Oct 1865 No 6537

J. E. 18th "

As the description
and specifications which
accompany, or are con-
tained, in the letters above
recorded are of too general
a nature to admit of a
proper opinion being

PROCEEDINGS OF THE BOARD OF REVENUE,

No. 22990.

Department,

1865.

Major Applegath

Submitted to
the Hon. Secy.
of the Govt.
of Madras.

Dated 14th October 1865.

22990
22990
22990

No. 6537.

Submitting letter and memo. from Major
Applegath of the Staff Corps, and recommend-
ing that a professional opinion be taken on his
proposals for rendering the rivers of the Mad-
ras Presidency navigable.

22990

Submitted

22990-11221000-1865

formed of the merits
of Major Applegath's in-
ventions, the Government
do not think it advisable
to forward Major Applegath's
papers to the Government
of India, and they will
accordingly be returned to
him.

2. If Major Applegath will bring forward any one specific project, in a well considered and definite shape, and accompanied by proper plans and fully detailed estimates, the Government will be glad to give it the most favorable consideration, and if necessary, to forward

This paper is -
accordance with
what was said
in Council but
further down I find
it had better be
submitted. It may
only be a rough
sketch but I think
it will show more
conditions only a
little more in
detail than his
present one
W.H.

152
forward it to the Go-
vernment of India -

A.B.

Major F. Applegath
with 8 photo.

Bo of Rev.

25

Dec 13th November

7th 1865 Dept.
Proc. of Govt. for Adv.

70085
Proc. of the M. Govt.
of 11. Nov. 1865

Major Applegath's proposals
for improving the navigation of
the Puetna between Bezoariah &
Mookhtala, & for rendering the rivers
of the Madras Presidency generally
navigable, declined to be forwarded
to the Govt. of India.

N^o 210 @ 215