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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

..... Rev. DEPARTMENT

G.O. No.	<u>8</u>	Press
B.P. No.		Mis.
Dated	<u>2.7.1973</u>	196 .

Not to be folded or roughly handled

*Proceedings of the Madras Government,
18th June*

Public Works Department.

No. 240. Read the following orders
19th May

Read the following Proceedings of the
No.

Read the following letter from W. R.
Government Farms, to J. G.
Revenue, dated Sydapet, 22nd

THE value of the Government Estate, and our experimental and educational work, would be very greatly increased, if the farms would proceed much more vigorously and be attended with much better results, if we could command a perennial water-supply at anything under 4 feet below the level of the land over which it is to be used. This, I confidently believe, could readily be secured if a dam was constructed in a suitable place across the river Adyar, which, I may add, flows around the southern and eastern boundaries of the estate. The quantity of water that flows to the sea is far beyond our possible wants. If the water-level was raised, say, by 4 feet, we would have a considerable area of land that could be watered with a lift not over 9 feet; indeed, quite within the capacity of a picottah worked by one man. I need scarcely add that, when the irrigation water is at a lower level than the land on which it is to be used, and needs to be conveyed some distance, it is in every way the most efficient and most economical plan to allow the water to flow by *gravitation* in a channel to the place at which it is required, and to raise it to the higher level *there and there only*. Even if we possessed the mechanical contrivance with which we could lift water at a moderate cost, the cost would need to be very small indeed to allow us to raise water at a place seven or eight hundred yards from the land on which the water is required, there is such an enormous waste in sending water long distances along distributing channels at high elevations, as these channels cannot be rendered water-tight except at a very great cost—a cost quite equal to that which would be incurred in excavating a water-channel of 8 or 10 feet in depth; and such a channel would not waste more land, as its sides could be planted with guinea grass and similar crops. Under these circumstances, I have the honour to request that a professional Engineer may be deputed to select a site for a dam across the bed of the river somewhere between the Sydapet crossing and the mouth of the nullah at the Model Farm, and to prepare the necessary plans and estimates.

THE Board resolve to refer the foregoing letter to Government, with a request that the matter may be taken into consideration.

2. They believe that a survey of the Adyar was made when the Chembrambankum Project was in hand, and that a plan was then entertained for damming the Adyar near the Mount. If this were done, the long tank and other tanks might be fed by channel, and the lands forming the Government Farm commanded.

3. The Board believe that the plans of the old projects were in the office of Mr. Fraser, when Engineer of the East Coast Canal.

REFERRED to the Public Works Department.

(Signed) R. A. DALYELL,
Acting Secretary to Government.

No. 241.

ORDER THE

IRRIGATION, No. 9

ascertained how the Government
ically be supplied with water.
that in all probability an extension
Chembrambaukum Tank would
extension would cost less than the
it would remove almost entirely
irrigation.

To the Chief Engineer for Irrigation.
,, District Engineer, Chingleput.
,, Revenue Department. ✓

me 1873, No. 1,590.

ORDERED that these papers be com-
municated to the District Engineer,
Chingleput, in order that it may be
ascertained how the Government
can most readily and econom-
ically be supplied with water.
Informed, the Government think
that in all probability an extension
of the irrigation channels from the
Chembrambaukum Tank would
be a most reliable supply, and that such an
extension would cost less than the
cost of a dam across the Adyar, while
it would remove almost entirely
the necessity for lifting water for the farm
irrigation.

(tract.)

W. S. S. S. Colonel, R.E.,
Secretary to Government.

N^o 8

Communicated to the Bd of Revenue

JD
2 July '73

1910
Govt. of 1873 Madras.

PUBLIC WORKS.

To

THE CHIEF ENGINEER FOR IRRIGATION,

&c. &c. &c.

Dated June 18th

Recd. June 30

Encl.

G. O., 1874 June 1873, No. 1,590.

JUNE

Nos. 240-241

Government Farm at Sydapat. — Proceed-
ings of the Board of Revenue referring
letter from the Superintendent suggesting
that a dam be constructed across the
Adyar river so as to secure a perennial
water supply to the farm, communicat-
ed to the District Engineer, Chingleput,
with instructions.

W. H. Owen