

34 (1) Number of pages 32
(2) Date of repair 6.3.87
(3) Initials of the Referencer bas ✓

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Fincl. DEPARTMENT

G.O. No.	111	Press.
B.P. No.		Mis.
Back No (77-80)		
Dated	21. 1.	1881. 197

17/18

S.G. 17.

Not to be folded or roughly handled

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111
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GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

21st January 1881, No. 111.

Municipal—Water-supply.

Read the following papers:—

No. 77. *From A. CRUICKSHANK, Esq., President of the Municipal Commissions, South Arcot District, to the Chief Secretary to Government, dated Cuddalore, 18th October 1880, No. 165.*

The Commissioners of the Cuddalore Municipality, as Government is aware, set apart Rs. 2,000 of their income this year for providing a supply of good drinking water to the inhabitants of Old Town. Dr. Robertson, who has taken a great interest in the matter, made three proposals, of which the one that will be cheapest was approved of by the Commissioners. The Local Fund Engineer was desired to ascertain whether the scheme proposed was feasible and what it would cost to carry it into effect. He reports that it is feasible and that the cost of carrying it out will be Rs. 4,000. The Commissioners by adding certain sums not included by the Engineer, such as his own fees, compensation for land which the owner has agreed to give up whenever required, and by providing a small sum for contingencies, have raised the estimate to Rs. 5,000, which I have no doubt will all be required.

2. There is a large tank at Mount Capper called Kondangi Eri, which is as it were divided into two by a bund which is breached for a short distance, and it is proposed to close this and raise the height of the bund and to increase the depth and area of the upper tank so as to store as much as possible of the rainfall in it. This water will when required be allowed to pass into the lower tank by opening the sluice to be made in the newly-constructed bund. The water will then be taken through the centre sluice in the bund of the lower tank along the existing irrigation channel to a settling pond close by the Railway Station, Old Town, from which it will pass through a filter bed into a reservoir, from which the water will have to be raised by the people requiring it. The Commissioners request that Government will be pleased to grant them the land required for settling pond, filter bed, and reservoir free of assessment. The exact extent required and the assessment due thereon have not been given, but information on these points has been called for and will be submitted as soon as it is received. They further request that they may be allowed the exclusive right of taking water along the channel to fill their settling pond for four hours twice a week. The time is so short that their being allowed to do so cannot appreciably affect the ryots. There are 360 cawnies of land assessed at Rs. 6,803 irrigated by the tank, and it is reported that the water-supply to this tank has never failed, that no remissions have been ever allowed on account of failure of crops under it, and that there is no more land under the tank to bring under cultivation. The Commissioners bind themselves that the ryots holding land under the tank shall get no less water than they now do. The Local Fund Engineer has gone thoroughly into the matter and shows that there will be abundance of water.

3. I sent all the plans and papers to the Executive Engineer, South Arcot Division, and requested him to say whether he had any objections to the proposed scheme as the Mount Capper Tank is in the charge of his department. He replies he sees none, but he raises two questions which he says should be settled by Government. The first arises from the Commissioners proposing to put the provisions of Section 116 of the Municipal Act into force with respect to the irrigation channel. I cannot see what objection there is to this, as all the Commissioners wish to do is to prevent the

water therein from being defiled, and they will in no way interfere with the distribution of the water to those entitled to it. The channel will continue under the control of the Department of Public Works just as it is now. The second question is whether water-tax should be levied from the Municipality on account of supply of water for its use from a State irrigation work. The Commissioners do not intend to levy any water-tax from the inhabitants of Old Town, and I do not see why Government should exact any from the Commissioners as Government will not be put to a single pie of extra expense by the scheme being carried out than it would otherwise be.

4. I have the honor to forward herewith copy of the Vice-President's letter with its enclosures as well as a copy of the Executive Engineer's letter, and to request that Government will be pleased to grant the concessions asked for by the Commissioners and accord sanction to the scheme at an early date, so that the money provided for the work in this year's budget may be expended before the close of the year.

5. The balance required for the completion of the scheme will be provided in the next year's budget.

No. 2216.

Referred to the Chief Engineer for Irrigation for the favor of his remarks.

22nd November 1880.

(Signed) R. DAVIDSON,
Chief Secretary.

No. 78. From A. CRUICKSHANK, Esq., President of the Municipal Commissions, South Arcot District, to the Chief Secretary to Government, dated Cuddalore, 11th November 1880, No. 187.

Adverting to paragraph 2 of my letter, dated 18th ultimo, No. 165, I have the honor to inform you that the area of land required is 1.85 acres and its annual assessment Rs. 22-6-9. A plan showing the position of the reservoir is herewith forwarded with a request that it may be returned when no longer required.

No. 2289.

Forwarded to the Chief Engineer for Irrigation in continuation of the papers sent with endorsement, dated 22nd November 1880, No. 2216.

FORT ST. GEORGE,
2nd December 1880.

(Signed) J. A. DAVIES,
Acting Under Secy. to Govt.

No. 53-W.

MEMORANDUM.

In returning the papers relative to the water-supply of Cuddalore received with the endorsements as per margin, the Chief Engineer for Irrigation has the honor to say that he has inspected the Kondangi Eri or Mount Capper Tank from which it is proposed to provide drinking water for Cuddalore Old Town, and that he sees no objection to the details of the proposed scheme except as regards the intention to use an existing irrigation channel to convey the water to the Municipal reservoir. The water-distribution arrangements under the tank and its supply channel from the Trivandipuram Anicut are complex. If the Commissioners were allowed the exclusive use of the channel for four hours twice a week and were strictly limited to the time named, they would get little, if any, pure water, for, before clear water could be obtained, it would be neces-

sary to allow the muddy water to run off, and this would take some time as numerous little bunds would have to be removed. Moreover, some of the fields surplus into this channel, and this would have to be put a stop to, for the surplus from paddy fields is not fit water for domestic purposes.

2. The exclusive use of the channel by the Municipality for four hours twice a week would therefore not secure the desired results, and the time during which the ordinary use of the channel would be interfered with would certainly be exceeded. Such exclusive use would involve very inconvenient interference with existing rights, and at best it could be but an inefficient arrangement. It is recommended, therefore, that the Municipal supply should be conveyed by a separate and special channel regulated by a special sluice at the tank.

3. That part of the Local Fund Engineer's report under the marginal abstract "available surface discharge" appears to have been based upon a misconception. The additional storage which the reconstruction of the upper bund will secure is not the whole quantity so stored, but the difference between this and the quantity now stored above the bund line. Moreover, present full tank level is not at 20'00, which is understood from Mr. Norfor to be the level of the masonry crest of the calingulah, but considerably higher: the water was at about 21'00 yesterday, and it had evidently been retained at a higher level. Probably the tank does now sometimes stand as high as 22'00, but, assuming 21'50 to be full tank level, the extra quantity which can be stored by reconstructing the upper bund would be about 408,375 cubic yards instead of 1,260,000 cubic yards as supposed. Taking evaporation and wastage into account, the quantity would fall very considerably short of that assumed in the report to be needed. Were the full level of the present tank raised one foot, about the same quantity of additional water would be stored, and, the present bund being for the most part high enough to admit of this, it would cost less to secure water in this way than in the manner proposed in the scheme. The data are not available* for comparing the storage capacity of the present tank with the water-supply from the catchment basin.

* Mr. Norfor gives some figures, but the levels noted on the survey are too few for a calculation.

Taking into account that the tank can be filled up to about 2½ to 3 feet below full tank level by the river channel, it is probable that, if enlarged, the supply would be ample. The very small surplus work, viz., a calingulah 18 feet long only between the wings, and the appearance of the surplus channel immediately below the calingulah indicate that the quantity of water discharged to waste is not very large.

4. The estimate includes the following items:—

	RS.
1. Reconstructing upper bund	1,446
2. Surplus weir for upper tank 134 feet long	164
3. Sluice upper tank	465
4. Settling pond, filter beds, &c.	1,871
Total	3,946

The undersigned is of opinion that the work to be provided for will cost much more than this. The rate for new stone revetment in (1) is 6 annas, and it is thought 1 rupee a cubic yard is the lowest rate at which a revetment, as shown in the sections, can be built: this would add Rs. 1,165. It is improbable that an efficient and stable weir can be built for less than 4 or 5 rupees the foot run.

In (4) the rate for puddle is 2 annas a cubic yard, which is very low, Rs. 1-8-0 a cubic yard for stone in chunam which is low, and 1½ annas a cubic foot for brick in chunam which was the ordinary rate some 12 or 15 years ago, while for the sluice (3) the rate is 2 annas, or 33½ per cent more.

Cuddalore,
30th December 1880.
To the Chief Secretary to Government.

(Signed)

J. MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

No. 80.

ORDER THEREON, 21st January 1881, No. 111.

Ordered that the Chief Engineer's remarks be communicated to the Commissioners of the Cuddalore Municipality, in view to the proposals contained in the President's letter, dated 18th October 1880, being revised with reference to them.

(True Extract.)

Chief Secretary.

To the President of the Municipal Commission, Cuddalore,
" Chief Engineer for Irrigation. with papers to be returned.
" Public Works Department.

Ed. J. W. Fischer.

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Govt. of (1881) Madras.
FINANCIAL.

To THE PRESIDENT OF THE
MUNICIPAL COMMISSION,
Cuddalore,
&c., &c., &c.

Dated January, 21st.

Issued

Recd.

G.O., 21st January 1881, No. 111.

JANUARY.
Nos. 77-80.

Municipal—Water supply.—The proposals of the Commissioners for providing a supply of drinking water for the Old Town, Cuddalore, to be revised with reference to the remarks of the Chief Engineer for Irrigation.

SOUTH ARCOT.

No. 165

From

President's
COLLECTOR'S OFFICE,
Cuddalore
18th October 1880.

111
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To

A. Quicksilver Esquire,
President Collector of South Arcot.
Municipalities.

The Honorable R. Davidson Esq.
Chief Secretary to Government,
Madras

Sir,

The Commissioners of the Cuddalore Municipality, as Government is aware, set apart 2000 Rs. of their income this year for providing a supply of good drinking water to the inhabitants of Old Town. Dr. Robertson, who has taken a great interest in the matter, made three proposals, of which the one that will be cheapest was approved of by the Commissioners. The Local Fund Engineer was desired to ascertain whether the scheme proposed was feasible and what

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it would cost to carry it into effect.
He reports that it is feasible and that
the cost of carrying it out will be 4,000 Rs.

The Commissioners by adding certain
sums not included by the Engineer,
such as his own fees, compensation
for land which the owner has agreed
to give up whenever required, and
by providing a small sum for
contingencies have raised the esti-
-mate to 5,000 Rs. which I have no
doubt will all be required.

2. There is a large tank at Mount
Copper called Kondangi Bri, which is
as it were divided into two by a bund
which is breached for a short distance,
and it is proposed to close this
and raise the height of the bund
and to increase the depth and area
of the upper tank so as to store as
much as possible of the rainfall in it.

This

11/5 20

This water will when required be
allowed to pass into the lower
tank by opening the sluice to be made
in the newly constructed bund. The
water will then be taken through the
centre sluice in the bund of the lower
tank along the existing irrigation
channel to a settling pond close
by the Railway Station Old Town
from which it will pass through
a filter bed into a reservoir, from
which the water will have to be
raised by the people requiring it.
The Commissioners request that Govern-
-ment will be pleased to grant them
the land required for settling
pond, filter bed, and reservoir
free of assessment. The exact extent
required and the assessment due
thereon have not been given but
information on these points has
been

been called for and will be sub-
mitted as soon as it is received.

They further request that they may
be allowed the exclusive right of
taking water along the channel to
fill their settling pond for four
hours twice a week. The time is so short
that their being allowed to do so cannot
appreciably affect the ryots. There are

360 Canons of land assessed at Rs
680 3 irrigated by the tank, and it is
reported that the water supply to this
tank has never failed, that no
remissions have been ever allowed
on account of failure of crops under
it, and that there is no more land
under the tank to being under
cultivation. The Commissioners
bind themselves that the ryots
holding land under the tank
shall get no less water than they
now

307
now do. The Local Fund Engineer
has gone thoroughly into the matter
and shows that there will be
abundance of water. $\frac{111}{6}$

3. I sent all the plans and papers
to the Executive Engineer, South Arcot
Division, and requested him to say
whether he had any objections to
the proposed scheme as the mouth
Copper tank is in the charge of his
Department. He replies he sees none
but he raises two questions which
he says should be settled by
Government. The first arises from
the Commissioners proposing to put
the provisions of section 116 of the
Municipal Act into force with
respect to the irrigation channel.
I cannot see what objection there is
to this as all the Commissioners
wish

wish to do is to prevent the water therein from being defiled and they will in no way interfere with the distribution of the water to those entitled to it. The channel will continue under the control of the Department of Public Works just as it is now. The second question is whether water tax should be levied from the Municipality on account of supply of water for its use from a State irrigation work. The Commissioners do not intend to levy any water tax from the inhabitants of Old Town, and I do not see why Government should exact any from the Commissioners as Government will not be put to a single pie of extra expense by the scheme being carried out than it would otherwise be.

4. I have the honor to forward
herewith

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herewith copy of the Vice President's letter with its enclosures as well as a copy of the Executive Engineer's letter and to request that Government will be pleased to grant the concessions asked for by the Commissioners and accord sanction to the scheme at an early date so that the money provided for the work in this year's budget may be expended before the close of the year.

5. The balance required for the completion of the scheme will be provided in the next year's budget.

I have the honor to be

Sir,

Your most obedient servant.

Africk Shah

President.

COLLECTOR'S OFFICE, 50
Cuddalore,
11 November 1880.

SOUTH ARCOT

No. 187.

11/8

From

A. Quicksand Esquire
President of Municipality
Collector of South Arcot.

To

The Honorable R. Davidson Esq.
Chief Secretary to Government.
Madras.

Sir,

Adverting to para 2 of my
letter dated 18th ultimo No. 165, I
have the honor to inform you that
the area of land required is 1.85 Acres
and its annual assessment Rs 22-6-9.
A plan showing the position of the
Reservoir is herewith forwarded, with
a request that it may be returned
when no longer required.

I have the honor to be,
Sir,

your most obedient servant
A. Quicksand
President.
Cuddalore.



TO BE RETURNED
WITH REPLY.

Chief Secretary

Refer to the Chief Engineer for Irrigation
for the form of his remarks.

Submitting papers con-
-nected with the proposed
to improve the drinking
water supply to the town
of Cuddalore and requesting
to grant the necessary
allowance for by Municipal
committees in connection
therewith and to award
contracts to the same.

Subject.

No. 165

ENCLOSURES 4

Dated 18th Nov 1880.
Deep. 27th Oct 1880.
Received 16th Nov 1880.

To The Chief Secretary
to Government
Cuddalore

South Arcot.

From R. Davidson
The Collector of Municipality
South Arcot.

18th Nov 1880
A. Quicksand
President of Municipality
Cuddalore

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Irrigation

Enclosure

No 2216 of 26 Oct. 80.
2299 - 2 Dec. 80.

No 53. W.

11/9

Memorandum

In returning the papers, relative to the water supply of Fuddalore, received with the endorsements as per margin, the Chief Engineer for Irrigation has the honour to say that he has inspected the Kondangi Eri or Mount Copper tank from which it is proposed to provide drinking water for Fuddalore old Town, and that he sees no objection to the details of the proposed scheme except as regards the intention to use an existing irrigation channel to convey the water to the Municipal reservoir. The water distribution & arrangements under the tank and its supply channel from the Trivandipuram anicut are complex. If the Commissioners were allowed the exclusive use of the channel for 4 hours twice a week, and were strictly limited to the time named, they would get little if any pure water, for before clear water could be obtained it would be necessary to

No 2289

From
South Arcot.

15 NOV 83

To
The Chief Secretary
to Government

Forwarded to the Chief
Engineer for Irrigation
in continuation of the
papers sent with enclosure
dated 22nd Oct. 1880/80
No 2814.

To
The Chief Secretary
for Irrigation

Enclosure

Dated 11th Dec.
Dis. 12th Dec.
Received 16th Dec.
November 1880.

No. 187.

Subject

Regarding the
tent and accommodation
of the land required
for the Fuddalore Water
works, and the
plans of the same.

to allow the muddy water to run off, and this would take some time as numerous little bunds would have to be removed. Moreover some of the fields surplus into this channel, and this would have to be put a stop to for the surplus from paddy fields is not fit water for domestic purposes.

2. The exclusive use of the channel by the Municipality for 4 hours twice a week would therefore not secure the desired results, and the time during which the ordinary use of the channel would be interfered with, would certainly be exceeded. Such exclusive use would involve very inconvenient interference with existing rights, and at best it could be but an inefficient arrangement. It is recommended therefore that the Municipal supply should be conveyed by a separate and special channel, regulated by a special sluice at the Tank.

3. That part of the Local Fund Engineer's Report under the marginal abstract "available surface discharge"

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appears to have been based upon a misconception. The additional storage ⁱⁿ which the reconstruction of the upper bund will secure is not the whole quantity so stored, but the difference between this and the quantity now stored above the bund line. Moreover present full tank level is not at 20.00, which is understood from Mr Norfor to be the level of the masonry crest of the Calingulah, but considerably higher: the water was at about 21.00 yesterday, and it had evidently been retained at a higher level. Probably the tank does now sometimes stand as high as 22.00, but assuming 21.50 to be full tank level the extra quantity which can be stored by reconstructing the upper bund would be about 408,375 cubic yards instead of 1,260,000 cubic yards, as supposed. Taking evaporation and wastage into account the quantity would fall very considerably short of that assumed in the Report to be needed. Were the full level of the present tank raised one foot, about the same quantity of additional water would be

2/2/80 Dec 1-2
2/6/80 Dec 22-23.

Let 24

Encl. 1001/ Dept

(Maul. - Water Supply)

To

The Chief Secretary to Govt.

R.D.

7 JAN 31

Dated 30 Decr 1880.

Despd 5 Jan'y 1881.

Recd. 7 Jan

No. 53 W.

Encl. 14.

R. Nos. 2814 & 3000 returned

Drinking water for
Cuddalore Old Town
states that he has inspected
the Kondangi Eri from which
it is proposed to provide -
& that he sees no objection
to the details of the proposed
scheme, except as regards
the intention to use an
existing irrigation channel
to convey the water to
the Municipal Reservoir.

Financial DEPARTMENT.

No. 2814

111
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From President M. C. Cuddalore.

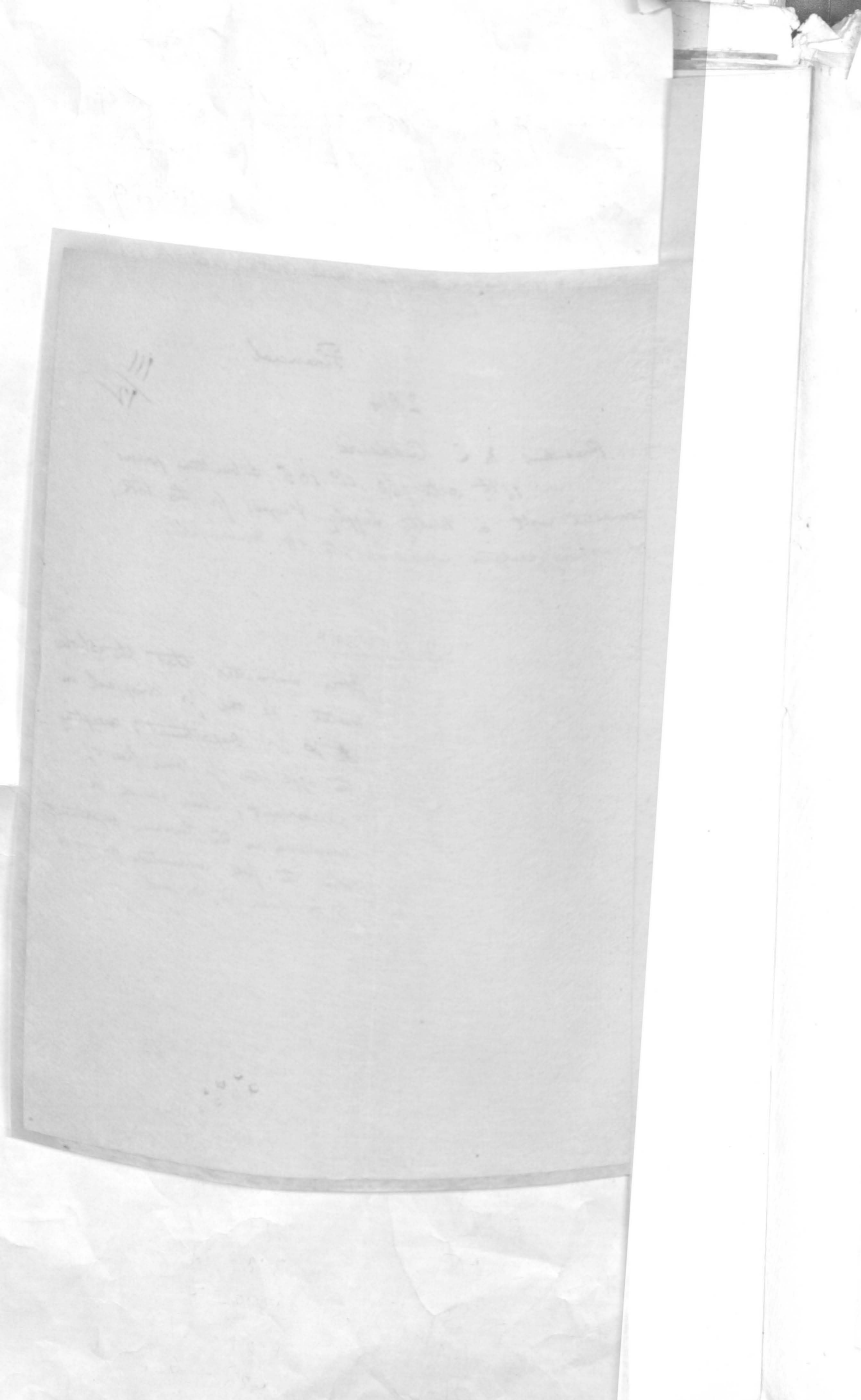
Dated 18th Octr/80 No 165 submitting papers
connected with a Water Supply Project for the town,
& asking for certain concessions to the Municipality.

FOR ORDERS.

It is submitted that the whole
matter is one for disposal in
the P. W. Department, excepting
the application for land free of
assessment, which should be
considered in the Revenue Department,
when the full information promised
to be given is received.

28/10/80. J. J.

Depy Secy (H. S. & L. S.)
Encl. 14
Remarks -
The Secy of the
Revenue Department
has
M. C.



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Cuddalore - Water Supply
Project for Old Town of

FOR ORDERS.

30 Jul 111/81

C.N. 22/14
Rept to Ch Engr
for sanction
for remarks
-th 11 miles
including 3/4
22/14

29/10
R 13/11

Mund - Water Supply

Financial Department.

1901

111/14

PROCEEDINGS of the MADRAS GOVERNMENT.

Read the following letter

Letter from the Resident Municipal Commr
South Arcot, dated 11th November 1880
A.C. 187.

Memorandum from the Chief
Engineer for Irrigation dated
30th December 1880 No 53 W.

Order thereon, 21st Jan 1881

Ordered that the
Chief Engineer's remarks
be communicated to the
Commissioners of the
Cuddalore Municipality
in view to the proposals
contained in the Residents
letter dated 18th October 1880
being revised with reference
to them.

x 10, 3 planes in 1880
on the 11/11/80

The Resident M.C. Cuddalore
with 10/11/80
Chief Engr for Irrigation
Tub 10-40

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Bobt. of 188 } *Quadrans.*

To

Dated
Recd.

188 , No.

Nos.

Govt. of 1884 Madras.

Final

(16)

G.O., 21st Jan. 1884, No. 111

Nos. 77-80

Local Water Supply

The proposals of the Comtee.
for the ~~improvement~~ providing
a supply of drinking
water for the old Town
Madras, to be revised
with reference to the remarks
of the Chief Eng. for Ir-
rigation.