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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.
(Public Works)

G.O. No.	173 (2)	Press Mis.
Dated	1 3	18 78.

Not to be folded or roughly handled

No 17 G.D.

Memorandum

The question of the limitation of the areas to be irrigated under the several Delta canals, and under several parts of those canals, is becoming of considerable importance in certain parts of the Delta, both as regards the efficient irrigation of the lands and the maintenance of the water levels on which are dependent

- 1st the sufficiency of distribution arrangements.

- 2^d the convenience of the navigation.

2. At a conference with the Collector held at the house of the Superintendent Engineer, this was one of the subjects discussed, and Mr. Foster expressed his willingness to restrict irrigation as might be shown to be necessary, and

to dispose of applications for permission to irrigate with reference to the water supply shown to be available.

3. Since then the Collector has afforded the undersigned an opportunity of perusing Pros. Madras Govt. Rev. Dept. No. 1473 of the 20th December 1873 in which the settlement with the Bahar. gally and Nidadavole estates was decided upon. This settlement provides for the irrigation free of charge for ever in,

Bahargally	—	acres	25,718
Nidadavole	—	"	163
Total			<u>25,881</u>

and for the payment of Rupees 40,000 for 5 years on account of the further irrigation of lands on which water rate was deemed payable. This sum was based on an acreage of 10,889 at Rupees with 10 per cent deducted, and the sum was fixed with reference to some other deductions and additions.

additions which do not materially alter its amount.

The acreage has risen to 49,198 in Fusli 1285, so that the area to be irrigated is $49,198 - (25,881 + 10,889) = 12,428$ acres more than in Fusli 1277, the year taken up for calculation by the Board of Revenue. The present settlement came into force in Fusli 1280 and will therefore terminate at the end of the current Fusli 1287. The statements printed in Pros. Madras Govt. No. 514-I. of the 22nd November 1877 show the whole area irrigated under Zemindary lands charged, which is incorrect, and it will be necessary to ascertain what the area under each canal is out of the total of 25,881 acres entitled to free irrigation. For this water will be always required to be provided, and it will then have to be settled what is to be the limit of

of land to be irrigated and charged in these estates under each canal.

4 The undersigned has the honour to request the Superintending Engineer Godavery therefore to be good enough to take steps to determine as accurately as possible;

- 1st what area each canal and each section of each canal can irrigate,
- 2nd what area is already irrigated,
- 3rd for what further area a supply of water is available,

The areas under the last two descriptions should further in due course be shown separately for,

A. Government lands charged

B. Zemindary, &c. — do: —

C. — do — do. — irrigated free of charge.

and for each canal, as soon as a settlement has been arrived at in consultation with the Collector, a statement in the subjoined form should

be

be sent to this office for record.

Godavery Delta.

Statement of ultimate and other areas under the several Canals. Western Delta. Memo. of Chief Engineer for Irrigation No. 1750 dated 28th January 1878.

Canals.	Ulti- mate areas.	Irrigation of 187 - 7				Further areas to be irrigated.			
		Govt. ment lands	Zemin- dary charged	Zemin- dary free	Total	Govt. lands	Zemin- dary charged	Zemin- dary free	Total

The Executive Division statements will have to be recorded of course by: (1) Villages under distributaries (2) Distributaries. (3) Sections of canals. (4) Canals.

Advantage should be taken of the opportunity for getting the lands in the Collector's returns placed in all cases under their actual sources of supply.

Camp. Godavery
Eastern Delta
28th January 1878

(true copy)
Colonel
Chief Engineer for Irrigation

N^o 25 I

Memorandum

In G. O. N^o 514-I of the 22nd Novem-
ber 1877 the Board of Revenue were re-
quested to draw up a memorandum show-
ing clearly what the arrangements are
under which the Nidadavole and
Baharzally estates are irrigated by the
Delta canals. The Collector, Godavery, has
given the undersigned for perusal the
Pros. Madras Govt. Revenue Department,
in which the arrangements as now in
force were made, and as there are
several points which need attention, while
the time for a new settlement as re-
gards lands liable to water rate is
now not far distant, the arrange-
ments will be detailed and what is
required to be done pointed out.

2 The area on which the present
water rate of Rupees 40,000 was settled

Encls 1

N^o 1473-20th
December 1873.

was acres 10,899 thus arrived at,

	Baharzally.	Nidadavole
First crop, acres	28,273	9,335.
Deduct whole fields waste	376	1,253
	27,897	8,082

add subsequent Inam

35,979

791

36,770

Exempted Guditent or
land to be irrigated

free of charge for ever

25,881

10,889

Second crop in Baharzally amounting to acres 1093 and 128 acres in Nidadavole was left out of account as being "very precarious". These figures appear for the most part to have been derived from the cultivation accounts of (1867-68) Fusli 1277.

It is noticed in the Proceedings that for 10 years prior to the Anicut works coming into operation the cultivation accounts showed the irrigated area of these estates to be acres 8,896, so not only was a much less precarious supply se-

cured

secured for this area, but 25,881 - 8,896 = 16,985 acres additional were admitted to receive irrigation free of charge. The

Board of Revenue refer to these terms as unprecedentedly liberal.

3 The settlement as regards water rate to be paid on lands other than the exempted Guditent was made for 5 years, and the first year in which the water rate of Rupees 4,000 was paid was Fusli 1283, consequently the present Fusli 1287 is the last of the 5.

4 The statements furnished by the Board of Revenue for Fusli 1285 (1875-76) show the area of irrigation in these estates to have been in that year 49,198 acres, there has consequently been an extension of irrigation of 12,428 acres representing a water rate of about Rupees 44,000 on which nothing under the settlement could be demanded. That Fusli having been the first for which the actual area has been given, it is not

not known what the areas have been from Fusli 1283 inclusive.

5. In the statements for Fusli 1285 the whole area of irrigation in these estates is entered in the columns Zemindary &c lands charged for, but this is incorrect as the 25,881 acres should be exhibited in distinguishing type under Zemindary &c lands irrigated free of charge.

6 The agreement made with the proprietors appears to be defective in several respects;

1st There is nothing, it would seem, to make it obligatory on the Zemindars to pay during the next term of years a water rate corresponding to the actual irrigation of the current term. They may, so far as can be seen, elect to pay during the next term on actual irrigation, with as a result again in the mean time of water rate on the whole area in excess of 36,770 acres which may have been irrigated.

The new contract will lay down the future terms

Don't see how they can pay in future for actual irrigation. The new contract will lay down the future terms

2nd There is no limitation as to the area which may be irrigated for the stipulated payment, and although the terms on which the area included in the exempted Gudit was fixed are shown to have been unprecedentedly liberal, in 1875-76. 12,428 acres additional were irrigated without liability for 5 years as to water rate.

Because for the 5 years no water rate.

3rd The capacity for irrigation of the canals has been altogether left out of account, and until a few months back the canal officers knew nothing as to the area irrigated in these estates, and consequently as to the areas under particular canals. The non-communication to the Irrigation Department of the Revenue order of 1873 was probably an oversight, but it was unfortunate that arrangements so intimately connected with the efficient management of the canals should have been determined on without any previous ascertainment of their bearing on the subject of water supply.

supply. The unknown and indeed un-
-expected appropriation of water for lands,
regarding which the canal officers
possessed no information, explains some
of the difficulties which have been
experienced in maintaining a sufficient
supply of water in certain localities,
and such arrangements are obvious-
-ly fatal to efficient canal adminis-
-tration, and are unfair to the officers
who are responsible for that adminis-
-tration. The undersigned has taken
steps, after consultation with the
Collector, to provide for the possession
by the Revenue and Canal officers alike
of a knowledge of the distribution of
areas to be irrigated by each canal
with the water supply provided. The
Collector can, within the limits which
the canal supply at different points
prescribes, determine the areas to be
irrigated in each village, and thereafter
the variations which may be made
should be so effected as to provide for
increases

* Memo. to Super-
-intending Engineer
Godavari, No. 1752
Dated 28 Jan'y 98
appended.

* early in the
season.

increases in one place only when there
are corresponding decreases elsewhere.
A great system of irrigation cannot
be properly managed, and the interests
of Government and of the ryots alike
provided for, without adequate know-
-ledge on the part of both Revenue
and Canal officers of the position and
extent of lands to be supplied. The
Collector has never possessed such in-
-formation at the time* when required
for the effective treatment of distri-
-bution arrangements, and he has been
unable to furnish it therefore to the
officers who stood in daily need of it.
7 With regard to irrigation in the
Bahargully and Nidadavole estates
of course it is necessary that every
season it should be stated for what
lands water will be required, and
there will be,
1st the lands exempted from water
rate which must be supplied,
2^d the lands liable to water rate, the
maximum area of which must evi-
-dently

evidently be limited to the water supply available.

These particulars require to be given for each village and distributary or source of supply, and may conveniently perhaps be shown as areas irrigated in the preceding season and variations therefrom. The canal officers should then limit the supply to what is necessary for the areas communicated to them by the collector, until they may receive intimation from him of changes in the direction of either increase or decrease.

8. While water was superabundant in most canals the irregular appropriation was of comparatively slight importance, though, in order to avoid difficulty in introducing strict, after a long course of lax management, it would have been much better had such practices been prohibited from the first. Now however the necessity for improved administration is urgent, for

for in the Western Delta, in which these estates are situated, the irrigation of the season just concluded has, according to the irrigation accounts compiled by the canal officers, exceeded the ultimate anticipated area of 296,000 acres for which water was provided by the completion estimates, and further demands for water can be complied with only to such extent as experience may demonstrate to be practicable, which will depend upon a given quantity of water being found to be capable of irrigating a larger acreage than was assumed to be probable. It is not improbable that, taking into account the smaller demands made by low lying and retentive lands, the area which may be efficiently irrigated will reach to 320,000 acres, but, to allow of this, good management and arrangements admitting of such management will be needed, and it must be shown

where

where such lands are and under what
canals and distributaries there may be
allowed a tentative extension of irri-
-gated area. When the acceptance of
water for irrigation was made op-
-tional with the holders of land the
undersigned suggested that the
rules should provide for the supply
of water being made optional on the
part of Government, but this pro-
-posal was negatived. It appears
now to be probable that the need
of some such provision will be felt
at least until the system of restrict-
-ing areas in each locality to the
extent which can be supplied has
been brought into working order.

Camp Godaverry
Eastern Delta
28th January 1878

Wm. Mullins
Colonel R.E.
Chief Engineer for Irrigation

To,

The Joint Secretary to Government
P.W.D. Irrigation Branch

17
P.M.G. No.
713 dated
5th March 1873

Revenue Dept.
G.O. No. 651
dated 27 May
1874.

1878.

From
The Chief Engineer for Irrigation

Memo: by the Chief Engineer for Irrigation (No. 25-I of 28th Jan'y 1878)

FOR ORDERS.

Dated 28 Jan'y 1878.
Despt. of Public Works.

No. 25-I.

P.W. No. 22.11.77 No 514.3.

" " 18.11.74 " 3260.

Min " 17.6.74 " 190.

Rev: " 20.12.73 " 1473.

P.W. " 5.3.73 " 713.

Rev: " 21.8.72 " 1239.

Limitation of the areas to be irrigated under the several Delta Canals and under the several parts of those Canals. - Godavery District. - Memo. on the importance of - with observations.

Recd 27.2.78.
Enc 11.2.78

Under Secretary to Government.
P.W.D. Irrigation Branch.

Do not get into the
that point. There are
expended. I think the
Ch. Engr's views are
generally correct. &
that he is in conformity
with the Govt. of India
that is necessary for
giving them effect.
Of course there
can be no objection

I agree with the
Mr. [Name] [Name]
The renewed composi-
tion of the [Name] [Name]
to carefully arranged [Name]
Colt. [Name] & [Name] [Name]
of [Name] were informed of
the terms before they are
finally concluded in the
Rev: [Name]
In the [Name] [Name] as
suggested [Name] [Name]
Board & Ch. Engr [Name]

as to supplying water
for Mount Mansfield -
the "Sutikah" of Adirondack
& Ticonderoga Estates -
This is a first change
in the supply.

Beyond this, the supply
is of course limited
by the capacity of the
lakes. & this is in
power. & the quantity
of water available -
in regard to this. I do not alter the Date
of S.B. 29th May '74 - The
necessity is not established
the necessity of an
option in accepting
or rejecting applications
is ~~necessarily~~ self
evident.

I do not alter the Date
of S.B. 29th May '74 - The
necessity is not established
- No'd may arise -
the object is to WM hold
a means of exploration
on the part of labor
donates & threat of
WM holding to all
22/2. WM

W.H. 20/2

FOR ORDERS.

*Am. to Hon. Secy.
Hon. Secy. to Government
His private Secy.*

*173 I
1 March 78*

Suz

N^o. 173 I Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the *1st March 1878*

Read the following:—

*From
The Chief Eng^r for Irrigⁿ. (N.C. N^o. 25 I of 28th Jan 4/78)*

*In the foregoing
Memorandum the Chief
Engineer for Irrigation has
given a summary of the
composition arrangement
under which the lands of
Baharzally and Nidadar
Zemindaries in the Western
Delta Godavery are irrigated
and he brings to notice the
points which he considers
will require attention in
arranging the terms of
supply on the expiration*

AB

*Recd 27.2.78
11.2.78*

Suz

of the present term which will end with the current *Fusli*.

2. The extension of irrigation in the Western section of the Delta has been great and it is believed that the anticipated ultimate area of 296,000 acres has in this year been exceeded. It has become therefore necessary to introduce arrangements for determining the areas to which the irrigation under the several canals and distributaries is to be limited, and the Chief Engineer after conferring with the Collector has issued instructions to the Superintending Engineer in connection with these arrangements.

* Acres 25881

S. I. Sadavary 59
 Collector of Sadavary 5-
 A. E. S. 95-
 Board of Revenue 15-
 Rea. Dept 7
 S. E. Kista 5
 17
 Dated - 11-2-78

by 26/2

3. The Chief Engineer for Irrigation will confer with the Board of Revenue on the subject of the information to be made available regarding irrigation in the Baharzally and Nidadavole Zemindari and it is considered desirable that before the terms ~~for~~ which the irrigation of lands, other than those included in the *Gudicut* which are entitled to water free of charge, are finally settled in the Revenue Department, the Chief Engineer may be informed what the terms proposed may be.

How: W. Buddlestap.

Calculate with these the
Res. Board's Proceedings
published on which
I have endorsed a copy

to 26/2
C. H. 1798

the S. B. Goddard

3A

G. O. *104 May* 1878, No. *173*

Conf. no. 1000