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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No:	2983	Press. / Mis.
Dated	6-12-1978	197 .

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Archives I—5,806—24-2-78.

GP

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

19th November 1878, No. 935 I.

Irrigation.

Read the following paper :—

No. 94. Endorsement of the Acting Chief Secretary to Government, dated Fort St. George, 11th November 1878.

Proceedings of the Board of Revenue, dated 27th September 1878, No. 2,643.

Read again Board's Proceedings, dated 16th November 1877, No. 5,008.

Read also the following letter from H. ST. A. GOODRICH, Esq., Acting Collector of Vizagapatam, to the Acting Secretary to the Board of Revenue, dated Vizianagram, 20th August 1878, No. 1,235 :—

I HAVE the honor to explain the delay of my report on the scheme for improvements to the Kondakirla Ava and Kristamraz channel called for in the Proceedings of the Board of 16th November 1877, No. 5,008.

2. The proprietors of the lands watered by the Kristâmraz channel have merely to remark that the whole of the lands which their twelve channels can reach, or could be made to reach, are already irrigated, and leased at very high rates ; they see no reason to suppose that they can raise their rents still higher, and I entirely agree with them. They decline to contribute, except on compulsion, anything.

3. The lands cultivated in the bed of the Ava are of enormous value, and the fact that some of them were allotted as service endowments before the permanent settlement shows that they are among the earliest cultivated lands as far as our knowledge goes. I should not estimate the value of these lands myself at less than 1,200 Rupees per acre. The proprietors will resist all attempts to eject them, and their compensation will have to be determined by arbitration.

4. I can only now report to the Board (on the points referred in their Proceedings, No. 5,008, 16th November 1877)—*Firstly*, that terms cannot be arranged ; Government can do nothing but damage to the proprietary works, and will have to pay enormously for doing the damage. *Secondly*, the Professional Department has by no means completed the details of the scheme. *Thirdly*, the lands affected, never having been surveyed, all statements of areas are the loosest guesswork. *Fourthly*, no extra cess for second crop has ever been levied in Vizagapatam District. The Board considered (Proceedings, 23rd April 1875, No. 1,019) that no such cess was leviable.

5. I will, when the District Engineer's plan and approximate estimates for the further works needed are ready, furnish such a statement of the irrigable areas as may be gathered from existing accounts and his surveys.

6. In G.O., 22nd October 1877, No. 3,133, Revenue Department, paragraph 12, four advantages are recited as likely to result from the contemplated operations. On these I have to remark —

(1.) The remissions have been due to neglect of the heads of channels leading from the Saradanadi below the Godavari Anicut, and the care of these works is all that is needed.

(2.) I do not believe that any second-crop assessment is leviable; the land now pays Government 7 Rupees an acre. The Board lately considered better land under better irrigation in Chicacole over-assessed at Rupees 4-12-0.

(3.) The additional assessment on dry lands convertible into wet is, I believe, over-estimated. They are far from the Ava and of poor quality; until I see the Engineer's promised plan with levels I cannot confidently say how much in excess the estimate is.

(4.) The ryots who promised to give 1 Rupee an acre more than at present I have never been able to discover. I have very frequently stayed at Kondakirla, have conducted the Jamabandi of the taluk, and am familiar with the country through which the channels run.

7. Until the Engineer has decided exactly what he means to do, and at what cost, it is impossible for me to predict what the loss is which Government will incur by prosecuting the scheme.

I enclose the last letter I received from Major Wood on the subject.

8. I believe that (the cost of buying the Ava lands being considered) it would be far better to seek to control the river by well-designed channel heads and take off the channels at or near the old sites of their prises than to store in the Ava itself. Government will give the landlord something for the privilege of drowning these most productive lands, but the ryots will get nothing, and I have some consideration for them.

9. With the cheap land in Godavari near them, with Barwah over the water, and the lightly-assessed jungly lands to the west, Vizagapatam ryots will not pay excessive rates. The rate which the land pays now is high compared with much other land within their reach.

ENCLOSURE No. 1.

From Major H. W. WOOD, R.E., District Engineer, Vizagapatam, to H. ST. A. GOODRICH, Esq., Acting Collector of Vizagapatam, dated Waltair, 13th July 1878, No. 844.

WITH reference to your No. 941, dated 9th July 1878, I have the honor to state that no further changes have been introduced into the Kondakirla Ava and Kristamraz projects.

2. The 16th paragraph of G.O., Revenue Department, 22nd October 1877, No. 3,133, directs that approximate estimates shall be prepared by the Public Works Department for the further works necessary for the completion of the project.

3. These further works comprehend the excavation of a channel from the Kondakirla Ava calingulah to supply the Government channels, leaving the Sarada river near and below the Mamidivada anicut close to the village of Somalingapalem, which is a little north of Gokavada.

4. It is calculated that the increased quantity of water that can be stored in the Kondakirla Ava by buying up the present rights of the Anakapalle proprietor in its bed will guarantee to the Government channels specified in the preceding paragraph that necessary irrigation which the stream flowing in the Sarada river not infrequently fails to supply under present conditions.

5. I am now having a sketch prepared of the ground which the proposed supply channel will traverse; when the sketch is ready I will send you a copy.

* * * *

(True Extract.)

(Signed) H. ST. A. GOODRICH,
Acting Collector.

THE letter read above is the Collector's reply to G.O., dated 22nd October 1877, No. 3,133, in which a summary of the previous correspondence regarding the Kondakirla Ava scheme is given; it is unnecessary, therefore, to recapitulate.

2. The only question which has so far been decided in connection with the project is that it is impossible now to refuse to recognize the prescriptive rights which have come into existence as regards cultivation of the Ava bed. The Collector was directed to negotiate with the holders of land, ascertainment of the terms to which they would accede in the matter of letting off the water for cultivation, and of the amount of compensation claimed being necessary before any decision can be arrived at as to the course to be adopted. It was hoped that it might be possible to obtain a precise statement of the claims, but the Collector's reply on this point is somewhat indefinite. He states that the proprietors will resist all attempts to eject them, and that the compensation will have to be determined by arbitration; but he does not state the sum claimed, nor whether the lowering of the water level from the 15th December apart from the requirements of the cultivation of land under the lake is insisted upon. The Collector estimates the value of the lands in the bed of the Ava to be taken up at not less than Rupees 1,200 per acre; it is presumed that this high rating relates to the proprietary lands only; the total cultivated area is 715 acres, of which 574 belong to the Anakapalle estate, so that the amount payable for this portion of the lands alone would amount to Rupees 6,88,800, and the occupiers of 141 acres of Government land have to be compensated besides. The Board can scarcely believe that a claim to such enormous compensation could be substantiated, but it seems clear that the land is not likely to be acquired for such a sum as would admit of its being profitably taken up; and unless the rights in question can be bought up it is considered useless to attempt any improvement of this small system of irrigation. What the cost of the works in connection with the scheme will amount to is not yet known, as the approximate estimates called for have not yet been prepared; the estimate already sent in, amounting to Rupees 27,760, relates only to the Kristamraz channel; the further works consist mainly in the excavation of a channel from the Kondakirla Ava calingulah to supplement the supply to the lands under the Saradanadi channels; but to effect this increased storage room is necessary, and the acquisition of the occupied land in the bed of the lake is essential to the prosecution of the scheme.

Paragraph 10, G.O., dated 22nd October 1877.

Board's Proceedings, dated 20th December 1875, No. 3,383.

3. As regards the Kristamraz channel, the improvement of which was proposed partly to increase the supply and partly to remedy defective drainage, the point for determination was the proportion of the cost debitable to the proprietors concerned. They deny that any benefit is likely to be derived by them, and in this view the Collector concurs; accordingly they decline to contribute anything except on compulsion. Except as regards that portion of the estimate which relates to the provision of sufficient waterway for the drainage from the Anakapalle Ava at the point where it crosses the Kristamraz channel, for which the proprietor of that estate is liable, there is clearly no prospect of recovering any portion of the outlay, as the landholders cannot be compelled to contribute towards the cost of works the advantage of which they do not recognize. As regards the defective drainage, Mr. Goodrich considered that it would be a matter of difficulty to decide how much of the expense should be borne by the Anakapalle proprietor; he does not allude to the subject in his present letter, but as there is little or no Government land irrigated directly from the Kristamraz channel, and unless the bed of the Ava can be acquired for the extension of storage room it is useless to supplement the supply, the interests of Government do not appear to be in any way involved in the improvement of the channel. Mr. Goodrich even hints that compensation for damage is likely to be claimed if the work is undertaken.

Vide Mr. Goodrich's letter of 24th November 1875 in Board's Proceedings, dated 20th December 1875.

4. Not only is the cost of the scheme likely to prove prohibitory, but the estimate of the returns put forward as justifying the expenditure and enumerated in paragraph 12 of the Government Order read above is not considered by Mr. Goodrich well founded.

(*a.*) As regards saving of remissions on account of short supply, he states that all that is needed is attention to the heads of the channels branching from the Saradanadi. The supply to lands irrigated directly from the Ava appears to be sufficient.

(*b.*) A second crop cess is not in his opinion leviable. No such charge appears to have ever been made in the district, the wet assessment being heavy, and having from time immemorial conferred the right to use such water as might be available throughout the year. Mr. Melville, in his letter of the 26th November 1876, No. 1,688, considered that half the single crop assessment was fairly leviable, but without further information as to the ability of the lands on which the charge would fall to bear an increased assessment the Board cannot express a definite opinion. The existing rate, which is stated to be Rupees 7 per acre, certainly seems sufficiently high.

Board's Proceedings, dated 23rd April 1875, No. 1,019.

(*c.*) The additional assessment on lands convertible into wet is believed by Mr. Goodrich to have been over-estimated, but in the absence of a plan he cannot say to what extent. The Board have not yet been able to obtain any definite information as to the position and extent of the land affected—*vide* remarks at paragraph 3 of their Proceedings, dated 3rd March 1877, No. 999. A sketch and statement of areas under the different sources of supply were accordingly called for in their last Proceedings, but the Collector states his inability to furnish them until a plan is received from the Public Works Department. Apparently all statements of areas hitherto given have been mere guesswork.

(*d.*) The promise of payment of an extra water-rate of 1 Rupee an acre for an improved supply is not confirmed by inquiry; a statement of the villages in which the land is situated was furnished by Mr. Melville with his letter of the 30th December 1872, and there should be no difficulty in ascertaining by whom the promise was made; the point is immaterial however, as it may be assumed that the ryots have receded from their engagement, which moreover is not binding on them.

5. Mr. Goodrich has never, apparently, thought favorably of the scheme, and it seems that the estimates of the gain to be derived and benefits to be secured by carrying it out have been based on very imperfect information. The returns expected under the first, second, and fourth heads noted above appear to be visionary on further investigation, and those anticipated under the third head have not been satisfactorily established; the extent and locality of the lands to be brought under irrigation have never been accurately specified, and Mr. Goodrich states that they are far from the Ava and of poor quality. The District Engineer's report and plans may throw some further light on the matter, but, so far as the information as yet furnished goes, the scheme is not promising, and better results would probably be obtained by turning attention to the channel heads as suggested at paragraph 8 of the Collector's letter.

6. As regards cultivation in the bed of the Ava, the Board understand the decision to be that the practice of draining off the water after the 15th December, *irrespective of requirements for the purposes of irrigation*, is not to be interfered with; even if it is resolved not to proceed further with the scheme, a definite settlement of this question is advisable with reference to former conflicting decisions of the local authorities—*vide* Board's Proceedings, dated 12th November 1875, No. 3,096.

(True Copies and Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

REFERRED for consideration in the Public Works Department in replying to G.O., 22nd October 1877, No. 3,133, Revenue Department.

(Signed) C. G. MASTER,
Acting Chief Secretary.

No. 95. ORDER THEREON, 19th November 1878, No. 935 I.

COMMUNICATED to the Superintending Engineer, First Circle, and the Chief Engineer for Irrigation in continuation of G.O., No. 487 I, of the 13th November 1877.

(True Extract.)

(Signed) J. O. HASTED, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, First Circle.
" Chief Engineer for Irrigation.
" Revenue Department.

Exd. C. Howarth.
Spare Copies

IRRIGATION.

Govt. of (1878) Madras.

PUBLIC WORKS.

To

The SUPERINTENDING ENGINEER,
FIRST CIRCLE,
&c., &c., &c.

Dated November 19th.

Issued

Read. Encl.

G. O., 19th November 1878, No. 935 I.

NOVEMBER.

Nos. 94-95.

Kondakirla Ava and Kristnamma Channel Vizagapatam District.—Board's views with reference to Collector's report on scheme for improving the —, communicated to the Superintending Engineer, First Circle, and the Chief Engineer for Irrigation.

C.N. 4522

Revenue Department

For orders.

2983/A

Board's Proceedings dated 27th September 1878 No. 2643, stating Board's views with reference to Collector's report on scheme for improving the Kondakirla Ava and Kristnamma channel in Vizagapatam District.

A succinct history of the Case and the points on which further information has been called for will be found in G.O. 22nd October 1877 no. 3133 R.D. and the Board's proceedings thereon recorded in G.O. 10th December 1877 no. 3372 RD, and the current paper is in reply to

these orders.

2. These points are —

(1) To report the result of negotiation* with the holders of land in the bed of the Koudakinla Ava as regards the storage of water therein and the Compensation payable for discontinuance or restriction of Cultivation.

(2) To give the proportion of the Cost debitable to the proprietors Concerned in regard to the Kristnamraj channel the improvement of which was proposed partly to increase the supply and partly to remedy defective drainage.

(3) To state what extent of land can be benefited by the project, what quantity of water must be stored for its irrigation, how the storage can best be effected and the Cost.

(4) To explain the discrepancies in the figures quoted in the Correspondence

* Ordered in Board's Proc dt/20th June 1875 no. 3383. para 8. recorded in G.O. 21/4/76 no. 527/4

Correspondence, which are alluded to in the Board's Proceedings embodied in G.O. 16th April 1877 no. 1460.

(5) To estimate the Cost of a new distribution to supplement the supply to the lands under the Saradanadi channels lower down the river.

(6) To verify the areas on which the returns to be derived from the improved irrigation of land directly under the Kristnamraj channel and the Ava are based.

(7) To furnish a statement showing separately the total area irrigable under (I) Koudakinla Ava, (II) Kristnamraj channel and (III) Other channels branching from the Saradanadi below the Godavary Anicut Collectively distinguishing Government, Inams and proprietary lands.

(8) To submit a sketch showing the position of the works and the lands affected

3. The information now furnished on the above points is to the following effect:

(1) The Collector states that all the Proprietors of the land will resist all attempts to eject them and that the Compensation will have to be determined by arbitration; that no terms can be arranged and that Government can do nothing but damage to the proprietary works and will have to pay enormously for doing the damage. The Board's Comments on this are Contained in paragraph 2 of their Proceedings They Consider that the land is not likely to be acquired for such a sum as would admit of its being profitably taken up and that if terms these rights can be bought up it would be useless to attempt any improvement of this small system of irrigation. The Collector does not state whether the lowering

of the water level, from the 15th December apart from the requirements of the cultivation of land under the lake is insisted upon, nor is his reply to this question generally, sufficiently definite to admit of its satisfactory solution.

(2) The proprietors deny that any benefit will accrue to them by the proposed improvement of the Kristnamraj Channel, in which opinion the Collector entirely agrees, and accordingly decline to contribute, except on Compulsion, anything. After remarking on the impossibility in some Cases and difficulty in others of recovering any portion of the expenditure from the proprietors Concerned either in the improvement or the drainage of the Channel, the Board observe that "as there is little or no Government land irrigated directly from the Kristnamraj Channel, and

unless the bed of the Ava Canke required for the extension of the storage room. It is useless to supplement the supply, the interests of Government do not appear to be in any way involved in the improvement of the channel", and that in Mr Goodriches opinion Compensation for damage is likely to be claimed if the work is undertaken.

(3) On this point, the Collector states "the lands affected never having been surveyed, all statements of areas are the loosest guess-work" and that "the Professional Department has by no means Completed the details of the scheme". The Cost of the works is ~~not~~ unknown. the approximate estimates called for not having been yet prepared. The Estimate for Rs 27,760 already received relates only to the Kristnamma Channel and the remaining works requiring Estimates are mainly the excavation of a channel from the Kondakirla-Avä Calingala to supplement the supply of the lands under the Saradamadi Channel.

(4) No information is furnished on this point, except that the figures already given are unreliable and that the profits to be derived from the project have been overestimated.

(5) It is stated that the D. of P. have not furnished an Estimate.

(6&7) The Collector states his inability to give the areas under the different sources until a plan is received from the D. of P.

(8) The sketch called for is not submitted as the D. of P. have not furnished it yet.

4. In Mr Goodriches opinion, not only is the Cost of the scheme likely to prove prohibitory

but the estimate of the returns put forward as justifying the outlay is not well founded. For he says

(1) Remissions can be saved by attending to the heads of the channels branching from the Saradanadi, instead of the proposed project.

(2) A second crop cess is not leviable

(3) The additional assessment on 'dry' convertible into 'wet' has been overestimated.

(4) The promise of payment of an extra water rate of one Rupee an acre for an improved supply is illusory.

25. After summarizing Mr Goodrich's views in the Case, the Board in their paragraph 5 observe that the District Engineer's report and plans may throw some further light on the matter, but so far as the information as yet furnished goes, the scheme is not promising, and better results would probably be obtained by turning attention to the channel heads as suggested at paragraph 8 of the Collector's letter."

6. Finally the Board surmise that the decision of Government as regards Cultivation in the bed of the Ava is that the practice of draining off the water after the 15th December, irrespective of requirements for the purposes of irrigation, is not to be interfered with", but they think that even if the scheme be abandoned a definite settlement of this question is advisable with reference to the former conflicting decisions of the local authorities.

× Para 12. G.O. 22nd Oct. 1877 no. 3133.

× Board's Proc. of 12th Nov. 1875 no. 3096 recorded in G.O 4th Jan 1876 no 5 R.D.

C P 4522

For orders

Regarding Ybt Kondakirla
Ava and Kristnaraz channel
in Vizagapatam District

This was forwarded for
C No 4522/78 - which was
transferred to the PW Dept
11 Nov 78

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

19th November 1878, No. 935 I.

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3. The lands cultivated in the bed of the Ava are of enormous value, and the fact that some of them were allotted as service endowments before the permanent settlement shows that they are among the earliest cultivated lands as far as our knowledge goes. I should not estimate the value of these lands myself at less than 1,200 Rupees per acre. The proprietors will resist all attempts to eject them, and their compensation will have to be determined by arbitration.

4. I can only now report to the Board (on the points referred in their Proceedings, No. 5,008, 16th November 1877)—*Firstly*, that terms cannot be arranged ; Government can do nothing but damage to the proprietary works, and will have to pay enormously for doing the damage. *Secondly*, the Professional Department has by no means completed the details of the scheme. *Thirdly*, the lands affected, never having been surveyed, all statements of areas are the loosest guesswork. *Fourthly*, no extra cess for second crop has ever been levied in Vizagapatam District. The Board considered (Proceedings, 23rd April 1875, No. 1,019) that no such cess is leviable.

5. I will, when the District Engineer's plan and approximate estimates for the further works needed are ready, furnish such statement of the irrigable areas as may be gathered from existing accounts and his surveys.

6. In G.O., 22nd October 1877, No. 3,133, Revenue Department, paragraph 12, four advantages are recited as likely to result from the contemplated operations. On these I have to remark —

(1.) The remissions have been due to neglect of the heads of channels leading from the Sarada-Eli below the Godavari Anicut, and the care of these works is all that is needed.

(2.) I do not believe that any second-crop assessment is leviable; the land now pays Government 7 Rupees an acre. The Board lately considered better land under better irrigation in Chicacole over-assessed at Rupees 4-12-0.

(3.) The additional assessment on dry lands convertible into wet is, I believe, over-estimated. They are far from the Ava and of poor quality; until I see the Engineer's proposed plan with levels I cannot confidently say how much in excess the estimate is.

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(True Extract.)

(Signed) H. ST. A. GOODRICH,
Acting Collector.

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Paragraph 10, G.O., dated 22nd October 1877.

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Vide Mr. Goodrich's letter of 24th November 1875 in Board's Proceedings, dated 20th December 1875.

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4. Not only is the cost of the scheme [illegible]o prove prohibitory, but the estimate of the returns put forward as justifying the expenditure and enumerated in paragraph 12 of the Government Order read abo[illegible] not considered by Mr. Goodrich well founded.

(*a.*) As regards saving of remissions on account of short supply, he states that all that is needed is attention to the heads of the channels branching from the Saradanadi. The supply to lands irrigated directly from the Ava appears to be sufficient.

(*b.*) A second crop cess is not in his opinion leviable. No such charge appears to have ever been made in the district, the wet assessment being heavy, and having from time immemorial conferred the right to use such water as might be available throughout the year. Mr. Melville, in his letter of the 26th November 187, No. 1,688, considered that half the single crop assessment was fairly leviable, but without further information as to the ability of the lands on which the charge would fall to bear an increased assessment the Board cannot express a definite opinion. The existing rate, which is stated to be Rupees 7 per acre, certainly seems sufficiently high.

Board's Proceedings, dated 23rd April 1875, No. 1,919.

(*c.*) The additional assessment on lands convertible into wet is believed by Mr. Goodrich to have been over-estimated, but in the absence of a plan he cannot say to what extent. The Board have not yet been able to obtain any definite information as to the position and extent of the land affected—*vide* remarks at paragraph 3 of their Proceedings, dated 3rd March 1877, No. 999. A sketch and statement of areas under the different sources of supply were accordingly called for in their last Proceedings, but the Collector states his inability to furnish them until a plan is received from the Public Works Department. Apparently all statements of areas hitherto given have been mere guesswork.

(*d.*) The promise of payment of an extra water-rate of 1 Rupee an acre for an improved supply is not confirmed by inquiry; a statement of the villages in which the land is situated was furnished by Mr. Melville with his letter of the 30th December 1872, and there should be no difficulty in ascertaining by whom the promise was made; the point is immaterial however, as it may be assumed that the ryots have receded from their engagement, which moreover is not binding on them.

5. Mr. Goodrich has never, apparently, thought favorably of the scheme, and it seems that the estimates of the gain to be derived and benefits to be secured by carrying it out have been based on very imperfect information. The returns expected under the first, second, and fourth heads noted above appear to be visionary on further investigation, and those anticipated under the third head have not been satisfactorily established; the extent and locality of the lands to be brought under irrigation have never been accurately specified, and Mr. Goodrich states that they are far from the Ava and of poor quality. The District Engineer's report and plans may throw some further light on the matter, but, so far as the information as yet furnished goes, the scheme is not promising, and better results would probably be obtained by turning attention to the channel heads as suggested at paragraph 8 of the Collector's letter.

6. As regards cultivation in the bed of the Ava, the Board understand the decision to be that the practice of draining off the water after the 15th December, *irrespective of requirements for the purposes of irrigation*, is not to be interfered with; even if it is resolved not to proceed further with the scheme, a definite settlement of this question is advisable with reference to former conflicting decisions of the local authorities—*vide* Board's Proceedings, dated 12th November 1875, No. 3,096.

(True Copies and Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

REFERRED for consideration in the Public Works Department in replying to G.O., 22nd October 1877, No. 3,133, Revenue Department.

(Signed) C. G. MASTER,
Acting Chief Secretary.

No. 95. ORDER THEREON, 19th November 1878, No. 935 I.

COMMUNICATED to the Superintending Engineer, First Circle, and the Chief Engineer for Irrigation in continuation of G.O., No. 487 I, of the 13th November 1877.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, First Circle
„ Chief Engineer for Irrigation.

Revenue Dept. N

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IRRIGATION.

Govt. of [1878] Madra

PUBLIC WORKS.

To

The SUPERINTENDING ENGINEER,
FIRST CIRCLE.
&c., &c., &c.

Dated November 19th.

Issued

Recd. 4th December

G. O., 19th November 1878, No. 935.

NOVEMBER.

Nos. 94-95.

No 2983 b December 1878

Kondakirla Ara and Kristnaraw Channel, Vizagapatam District.—Board's views with reference to Collector's report on scheme for improving the —, communicated to the Superintending Engineer, First Circle, and the Chief Engineer for Irrigation.

W. the Order

VC At 162/1879

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14 Feb 1879

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