

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

DEPARTMENT

G.O. No. 2558

Press

B.P. No.

Mis.

322-323

Dated 20. 10. 1873.

195

Not to be folded or roughly handled

Read the following papers :—

No. 322. From Lieutenant-Colonel J. F. FISCHER, R.E., District Engineer, Godavery, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation and Joint Secretary to Government, Public Works Department, dated Dowlaishweram, 9th September 1873, No. 1,825.

WITH reference to your memorandum of the 3rd June 1873, No. 339, I have the honour to forward copy of a letter from the Acting Collector giving details of the area of land now assessed as dry cultivation which could be converted into wet by means of the junction canal from Cōvoor to Munjair, and some statistics connected with the salt pans at Penuguduru.

2. In reply to paragraph 1 of your memorandum, I beg to observe that I never contemplated irrigating this portion of the Eastern Delta otherwise than by a junction canal, as the advantages of such an arrangement for the delta generally are so great, I did not for a moment hesitate to recommend the project for adoption immediately after I took charge of the division; considering the low-lying character of the ground, the difficulty, if not the impracticability, of getting away the produce otherwise than by such a canal, the increased cost of maintenance if several irrigating channels are cut, the facilities of communication which this work would afford not to the Eastern Delta alone but also to the Central Delta, to the port and market of Cocanada, and the advantages which the salt pans must derive from the project, I could not think of recommending any other scheme for adoption hereabouts, and strange to say all authorities here concur with me in this matter. In writing to Sir A. Cotton, I laid the project before him, and his reply was "you are quite right as regards the Cōvoor and Munjair Canal; it was a great mistake of mine not to have carried out this work years ago."

3. Again, in paragraph 8 of my letter to your address, No. 1,528, dated 11th August 1873, submitting the Central Delta Project, I have given an outline of a canal for connecting Cocanada and Nursapore through the Polarum Island, and of this this junction canal forms an integral portion.

4. As regards paragraph 2 of your memorandum, I would observe the whole project requires to be revised, and in doing this the question of additional provision for drainage will have to be taken into account undoubtedly; I did not provide sufficiently for this in the scheme I had submitted. We formerly provided only 140 square feet of water-way for the Thooliabaga drain; it will be necessary to increase this to 300 square feet, as last year's rains which were very heavy and exceptional showed such a capacity of discharge is required by this drain in extraordinary seasons; the other drainages are small and of no great importance.

5. In reply to paragraph 3, I beg to transmit such information regarding the statistics of the salt manufacture as I have been able to obtain from the Collector; it will be observed that a net revenue of upwards of 5 lakhs of Rupees a year are obtained from these salt pans; that the balances on hand, which in Fasli 1277 amounted to 308,451 maunds, were only 112,753 maunds in 1281, showing that the trade is rapidly increasing. I estimate the distance the boats have to go by the

Bay route to their pans at not less than ten miles; by the proposed canal, half this distance would be saved and all the waste of time and difficulty in navigating old natural tidal creeks which for many months in the year are of little or no use except during spring tides. It is difficult, if not impossible, to estimate what increase of revenue may be obtained from salt alone; but as facilities of communication always increase trade and traffic, there can be no doubt the principle on which we are acting is the right one to secure the greatest advantages to its manufacture.

6. The Acting Collector estimates the probable increase of revenue from the land at Rupees 15,000 a year to Government, whilst the Deputy Tahsildars of Coringa and Cocanada rate this as high as Rupees 28,400 a year, but in neither case has the circumstance of the extensive fore-shore now forming into the Bay been taken into account, and which will in a very short time become most valuable land for irrigation; I am therefore not inclined to agree with Mr. Foster in his estimate of the revenue to be derived from the work, particularly as the land is so situated in the vicinity of a large market that its produce must command a ready sale if only the proper means of transport are afforded it, however taking his figures for revenue from land only at 10 per cent. interest, it would be worthwhile laying out 1½ lakhs of Rupees on the project, and I do not estimate the cost at more than 1½ lakhs, and of this the Local Fund Board, Cocanada Circle, are prepared to pay one-third share; so important do they consider the work for the benefit of the delta generally, affording as it would do the means of saving at least one-third the distance goods have to be carried from the largest areas of this delta to the port of Cocanada.

7. I can conceive no advantages which could be obtained for the country generally by attempting to irrigate this land by two or three small ditches of no use whatever except just to convey a sufficient supply of water to land which there is little or no probability of the people taking up when they could not get the produce away for several months in the year, and at the same time sacrificing all the advantages the salt pans may derive from the proposed work and the means of communication with the Central Delta and the largest part of the Ramachendrapuram Taluq. Under these circumstances I trust the Government will be pleased to allow me to revise the project I had originally proposed as soon as the present irrigation season and rains are over.

From W. S. FOSTER, Esq., Acting Collector of the Godavery District, to Lieutenant-Colonel J. F. FISCHER, R.E., District Engineer, Godavery, dated Cocanada, 2nd September 1873, No. 126.

With reference to your letter Nos. 873 and 1,231, dated respectively 17th June and 19th July, relative to the proposed new junction canal from Covoer to Coringa and creek at Penugudur, I have the honour to acquaint you as follows.

2. The delay has occurred in the preparation of statistics and correspondence with the Taluq Officers.

3. The Deputy Tahsildars of Coringa and Cocanada are very sanguine as to the financial success of the proposed scheme viewed as an irrigation work. They think that an area of 7,100

acres of land, now almost entirely under dry assessment, will be irrigated and produce a revenue to Government under water-tax of Rupees 28,400. The statistics are noted below:—

Divisions.	Villages.	Extent.	Water-tax.
		ACRES	RS.
Coringa	Guruganapulli	900	7,600
Do.	Puttavula	1,000	10,000
Cocanada	Gorripudi	2,500	6,400
	Veemanarum	1,000	4,000
	Challengi... ..	100	400
	Challangipeta		
	Total...	7,100	28,400

The Tahsildar of the Ramachendrapur Taluq gives a considerably lower estimate, but as he is not in a position to be well acquainted with facts, his estimate need not be accepted as very reliable; on the other hand I do not doubt that the figures of the Cocanada and Coringa Deputy Tahsildars are too high, and, in order not to be over sanguine, I would fix a much more moderate estimate of the probable additional revenue to Government under the scheme, say about Rupees 15,000. This would come under Imperial Revenue from Agricultural Works.

4. The proposed canal is principally intended for the improvement of the Penugudur salt pans, and any additional revenue under that head would of course be an Imperial matter. It is impossible to estimate this with any degree of accuracy, but to enable you to form some opinion, I annex a table showing the revenue derived from those salt pans for the past five faslies:—

Fasli.	Balance of salt at beginning of Fasli.	Quantity received in store during the Fasli.	Sales and Wastage.	Balance.	Total Revenue on sales of, etc.	Actual expenses of Manufacture Establishment, etc.	Net revenue derived by Government
	MDS.			MDS.	RS.	RS.	RS.
1277	384,246	213,854	289,649	308,451	4,38,629	29,771	4,08,858
1278	308,451	233,839	303,395	238,895	4,52,269	31,400	4,20,869
1279	238,895	268,288	309,631	197,502	5,34,497	36,466	4,98,031
1280	197,502	299,738	300,774	196,466	5,65,210	36,385	5,28,825
1281	196,466	205,600	289,313	112,753	5,42,295	36,943	5,05,352

All the salt sold at the Penugudur pans will be provided, if the proposed scheme is carried out with a very handy and easy mode of transit up-country, whereas now it labours under the disadvantage of having an exceptionally troublesome and circuitous route to take. I think it clear therefore that the benefits under this head to Imperial Revenue will be considerable.

No. 649.

No. 322A. Note by the Chief Engineer for Irrigation.

This letter from the District Engineer, Godavery, is in reply to a reference which was made to him in June last for R. No. 1,524, dated 9th September 1873, with information as to whether there would be any direct irrigation returns from a junction canal between the Cocanada and Coringa Canals, which would not be obtained in the absence of that canal under irrigation channels already provided for its enclosure.

in the Eastern Delta completion estimates. He was also requested to state, if such additional returns would be obtainable, what the circumstances are which would secure such revenue in the one case and not in the other.

2. Colonel Fischer's reply is not as clear and definite as it should be. The completion estimates, now in course of being carried out, were supposed to provide for the irrigation of all the land available or likely to require a supply, and it must be presumed therefore, in the absence of direct evidence that the lands now proposed to be irrigated from the junction canal were not included in that area, that they have already been provided for. If, on the other hand, it can be shown that these lands are really additional, some explanation is manifestly needed as to why they were left out, it being clear that there was every facility for supplying them from the canals and their branches.

3. Colonel Fischer's statement that he never contemplated irrigating this portion of the delta otherwise than from the junction canal is really of no significance in connection with the question raised. The areas to be irrigated were not determined by him, but by the late Major Ryves; and the estimates, though revised by the former, were based upon the general scheme of the latter. The project must be dealt with on its merits, and it is evident that on no account must the irrigation of the same land be taken credit for twice over. Moreover, as regards the relation of the junction canal to irrigation, it must be carefully estimated what the cost of irrigation would be without it, and this will be the first share to be contributed by Agricultural funds towards its cost. The Government may then be disposed to give full weight to the advantages to the irrigated lands which will be secured by the canal, and to determine what further share should on this account be charged to the same funds. The project is confessedly likely to be a very useful one, but if any Imperial Agricultural, or at least any Loan, Funds are to be sanctioned for it, it appears to be very necessary that the true facts and circumstances should be clearly set forth.

4. The project it will be observed needs revision, and with the revised designs and estimates a full report should be submitted.

District Engineer's letter, paragraph 6.

FORT ST. GEORGE,
17th September 1873.

(Signed)

5. It will be seen that the Local Fund Board at Cocanada are prepared to pay one-third of the cost of the canal.
J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 323.

ORDER THEREON, 20th October 1873, No. 2,558.

IRRIGATION, No. 27.

THE Governor in Council agrees with the Chief Engineer in considering that the bearing of the proposed canal to join the Cocanada and Coringa Canals upon the extension of irrigation in that part of the delta has not been explained with sufficient clearness by the District Engineer. What is wanted is clear and definite information on this point; such details as will show exactly what outlay would be needed if the junction canal had not been thought of, and were not in any way necessary to supply the lands which

will be irrigated from it if it be carried out. Colonel Fischer's remarks on the many advantages which the canal will secure have but little bearing on the particular point on which information was required, and they will not enable the Government to determine what proportion of the cost should be charged to Agricultural funds and Communications respectively, and what share should be left to be provided from Local Funds.

2. As it appears that the project itself needs revision, the District Engineer should, in re-submitting it, take care that the explanations and information needed are made complete and full.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the District Engineer, Godavery.
,, Chief Engineer for Irrigation.

Exd. E. C. Shunker.
Spare Copies.

No 1825 District Engineer's Office Godavari
Dowlaiswarum 9 September 1873.

From

Lieut. Col. J. F. Fisher R.E.
District Engineer Godavari

To

Lieut. Col. J. Mullins R.E.
Chief Engineer for Irrigation &
Joint Secretary to Govt. P.W.D.
Madras

Sir,

Enclosure
10/9/73
P.W.D.
1/10/73

With reference to your Memo of the
3d June 1873 No 339, I have the honor to forward copy of a
letter from the Acting Collector giving details of the area
of land now assessed as dry cultivation which could
be converted into wet by means of the junction Canal
from Coocon to Munjair, and some statistics connected
with the Salt pans at Penugudem.

2 In reply to para 1 of your Memo, I beg to
observe that I never contemplated irrigating this portion
of the Eastern Delta otherwise than by a junction
Canal as the advantages of such an arrangement
for the Delta generally are so great, I do not for
a moment hesitate to recommend the project
for adoption immediately after I took charge of
the Division, considering the low lying character of
the ground the difficulty, if not the impracticability, of
getting away the produce otherwise than by such a
Canal the increased cost of maintenance if several
irrigating channels are cut, the facilities of
Communication

communication which this work would afford not to the Eastern Delta alone but also to the Central Delta to the Port and Market of Cocanada and the advantages which the salt pans must derive from the project. I could not think of recommending any other scheme for adoption hereabouts; and strange to say all authorities here concur with me in this matter. In writing to Sir A. Cotton, I laid the project before him and his reply was "you are quite right as regards the Cooch and Minjain Canal it was a great mistake of mine not to have carried out this work years ago."

3 Again in para 8 of my letter to your address No 1528 dated 11th August 1873 submitting the Central Delta project, I have given an outline of a Canal for connecting Cocanada and Narsapore thro' the Polarum Island and of this, this junction Canal forms an integral portion.

4 As regards para 2 of your Memo I would observe the whole project requires to be revised and in doing this the question of additional provision for drainage will have to be taken into account undoubtedly I did not provide sufficiently for this in the scheme I had submitted; we formerly provided only 140 sq. ft of water way for the Thos-
his Baga drain it will be necessary to increase this to 300 sq. ft as last years rains which were

were very heavy and exceptional, showed such a capacity of discharge is required by this drain in extraordinary seasons, the other drainages are small and of no great importance.

5 In reply to para 3, I beg to transmit such information regarding the statistics of the salt manufacture as I have been able to obtain from the Collector. it will be observed that a rich revenue of upwards of 5 lacs of rupees a year are obtained from these salt pans; that the balances on hand which in July 1277 amounted to 3,08,451 m. m. were only 1,12,755 m. m. in 1281 showing that the trade is rapidly increasing. I estimate the distance the boats have to go by the Bay route to their pans at not less than 10 miles; by the proposed Canal, half this distance would be saved and all the waste of time and difficulty in navigating old natural tidal creeks which for many months in the year are of little or no use except during spring tides. It is difficult if not impossible to estimate what increase of revenue may be obtained from salt alone, but as facilities of communication always increase trade and traffic there can be no doubt the principle on which we are acting is the right one to secure the greatest advantages to its manufacture.

6 The Acting Collector estimates the probable increase

increase of Revenue from the land at Rs. 18000 a
Year to Government whilst the Deputy Revenue
of Oringa and Cocanada rate this as high as Rs.
28,400 a year. In neither case has the circumstances
of the extensive ~~jobs~~ ^{work} now forming into the Bay
been taken into account and which will in a very
short time become most valuable land for irrigation.
I am therefore not inclined to agree with Mr
Foster in his estimate of the Revenue to be derived
from the work, particularly as the land is so situated
in the vicinity of a large market that its produce
must command a ready sale if only the proper
means of transport are afforded it. However
taking his figures for Revenue from land only
at 10 per cent interest, it would be worth while
laying out $\frac{1}{2}$ lac of Rupees on the project, and
I do not estimate the cost at more than $\frac{1}{2}$ lac,
and of this the Local Fund Board Cocanada
Circle are prepared to pay $\frac{1}{3}$ share, so important
do they consider the work for the benefit of the Delta
generally affording as it would do the means
of saving at least $\frac{1}{3}$ the distance goods have
to be carried from the largest areas of the
Delta to the Port of Cocanada.

7 I can conceive no advantages which
could be obtained for the country generally
by attempting to irrigate this land by 20 or 3 small
ditches of no use whatever except just to
convey a sufficient supply of water to land which

where there is little or no probability of the people
taking up when they could not get the produce
away for several months in the year, and at the
same time sacrificing all the advantages the culti-
vators may derive from the proposed work and the
means of communication with the Central Delta
and the large part of the Ramachendrapuram
Taluk; under these circumstances I trust the
Government will be pleased to allow me to re-
-vise the project I had originally proposed as
soon as the present irrigation season and rains
are over.

I have the honor to be
Sir
Your most obedt servant

W. T. Tucker Esq. J. C. P. R.
District Engineer Godavari

№ 126

Q. 1.

W. A. Fisher Esq

Ad. Collection

Genl. Colonel P. H. Fischer-R.

District Engineer - Godfrey

With reference to your letters

No^s 873 and 1231 dated respectively June 17th and July 19th relative to the proposed new functional Canal from Coocoer to Coringa and Creek at Beniguduru, I have the honor to acquaint you as follows.

2. The delay has occurred in the preparation of Statistics and correspondence with the Saluk Officers.

3. The Deputy Sahibdars of Corriga and Cosanada are very sanguine as to the financial success of the proposed Scheme, viewed as an irrigation work. They think that an Area of 7100 Acres of land now almost entirely under dry agriculture will be irrigated and produce a revenue to

Cornya	Garrifundi	900
	Wullanula	1000
		7600
Cornado	Garrifundi	2500
	Vignanarum	1600
		6400
	Challange	1000
		1000
	Challangifudi	100
	Total	7100
		28400

Feb 26/99 17 dls 73
- St. James 17 - - -

Dec 15 24
 Hon^d
 John Dickinson Esq^r

Johnston
Johnston

Dr. Hoagins
for Migration and
Jewish div. & Jan 4, 1998
H. H. H.

*Delivered
March 15*

101025

Subject's information in connection with the proposed
London Criminal from the Prison
James Dock on the (Gangway)
Criminal to Court Dock on the
Criminal Criminal. W

20

110-2558-20 Detective/75

P. H. 5193/73

to Government under water tax of Rupees 28,400. The Statistics are noted in the Margin. The Tahildar of the Rannachur - darsur Taluk gives a considerably lower Estimate, but as he is not in a position to be so well acquainted with the facts, his Estimate need not be accepted as very reliable on the other hand.

I do not doubt that the figures of the Coanada and Coringa Deputy Tahildars are too high; and in order not to be over sanguine, I would fix a much more moderate Estimate of the probable additional Revenue to

Government under the Scheme say about Rupees 15,000. This would come under Imperial Revenue from Agricultural works.

The proposed canal is principally intended for the improvement of the Pennagudum Salt Pans and any additional Revenue under that head

head would of course be an Imperial matter. It is impossible to estimate this with any degree of accuracy, but to enable you to form some opinion, I annex a table showing the Revenue derived from those Salt Pans for the past five Years.

Year	Balance of Salt at beginning of Fiscal Year	Quantity received in store during the Year	Sales and wastage	Balance at end of Year	Estimated Revenue on Sales of Salt	Actual Expenses of Manufacturing & Establishments	Net Revenue deriving from Government
1277	384,246	213,854	289,649	308,451	438,629	29,771	408,858
1278	308,451	233,839	303,395	238,895	452,269	31,400	420,869
1279	238,895	268,288	309,681	197,502	534,497	36,466	498,031
1280	197,502	299,738	300,774	196,466	565,210	36,385	528,825
1281	196,466	205,600	289,313	112,753	542,295	36,943	505,352

All the Salt sold at the Pennagudum pans will be provided, if the proposed Scheme is carried out with a very handy and easy mode of transacting business, whereas now the labour under the disadvantage of having an exceptionally troublesome and expensive mode to take. I think it clear therefore that

that the benefits under this head
to Imperial Revenue will be con-
siderable.

I have been
signed by D. S. Macken
As Collector

(Enc. Copy)

W. S. Macken

District Engineer Godavari

28/10/1893

28/10/1893

Enclosure in letter
No 1025 dated 29/9/93

29/10/1893 from

the District Engineer

Godavari to the Chief

Engineer for the

Godavari

28/10/1893

28/10/1893

N-649

Note by the Chief Engineer for Irrigation

Enclosure

No. 1524, dated
9th September 1893
with enclosure

This letter from the District
Engineer, Godavari, is in reply
to a reference which was made
to him in June last for in-
formation as to whether there
would be any direct irrigation
returns from a junction canal
between the Cocanada Horinga
Canals, which would not be
obtained in the absence of
that canal under irrigation
channels already provided for
in the Eastern Delta com-
petition estimates. He was
also requested to state, if
such additional returns
would be obtainable, what
the circumstances are which
would secure such Revenue
in the one case and not in the
other

other.

2. Colonel Fischer's reply is not as clear and definite as it should be. The computation estimates, now in course of being carried out, were supposed to provide for the irrigation of all the land available or likely to require a supply, and it must be presumed therefore, in the absence of direct evidence, that the lands now proposed to be irrigated from the Junction Canal were not included in that area, that they have already been provided for. If on the other hand it can be shown that these lands are really additional, some explanation is manifestly needed as to why they

they were left out, it being clear that there was every facility for supplying them from the canals and their branches.

3. Colonel Fischer's statement that he never contemplated irrigating this portion of the Delta otherwise than from the Junction Canal is really of no significance in connection with the question raised. The areas to be irrigated were not determined by him, but by the late Major Kyrle; and the estimates, though revised by the former, were based upon the general scheme of the latter. The project must be dealt with on its merits, and it is evident that

that on no account must the irrigation of the same land be taken credit for twice over. Moreover as regards the relation of the junction Canal to irrigation, it must be carefully estimated what the cost of irrigation would be without it, and this will be the first share to be contributed by Agricultural funds towards its cost.

The Government may then be disposed to give full weight to the advantages to the irrigated lands, which will be secured by the canal, and to determine what further share should on this account be charged to the same funds. The project is confessedly likely to be a very useful one, but, if any Imperial Agricultural, or at least any Loan, Funds

Funds are to be sanctioned for it, it appears to be very necessary that the true facts & circumstances should be clearly set forth.

4. The project it will be observed needs revision, and with the revised designs & estimates a full report should be submitted.

5. It will be seen that ^{Butcher's} ^{letter} para 6. the Local Fund Board at Vancouver are prepared to pay one third of the cost of the canal.

Fort St George. 17 September 1873.

Whitcomb L. C. Esq.
Chief Eng^r for Irrigation

To The Secretary St. John's
P. M. D.

No. 2558
 P. O. Dept.
 Pro: of the Madras Government.
 Read the following:
 From,
 The Chief Engineer
 for Irrigation } (H. E. Dec 6/9/11
 Sept 4/3)

The Governor
 in Council agrees with
 the Chief Engineer in
 considering that the
 bearing of the proposed
 Canal to join the Coconada
 and Coariga Canals;
 upon the extension of
 irrigation in that part
 of the Delta has not
 been explained with
 sufficient clearness by
 the

W. H.

P. O. 1873/10 Government.
 P. O. 1873/10 Government.
 from the Chief Engineer
 for Irrigation
 to the Secretary
 Government.

2649.

P. O. 1873/10 Government.
 P. O. 1873/10 Government.

No. 2.

Note on the
 project for a new
 canal between
 the Coconada & Co.
 rings Canals.

No. 2558. 20/10/11.

P. O. 1873/10 Government.
 P. O. 1873/10 Government.

1 The District Engineer - What is wanted is clear and definite information on this point: such details as will show exactly what outlay would be needed if the junction Canal had not been thought of, and were not in any way necessary to supply the lands which will be irrigated from it, if it be carried out. Colonel Fisher's remarks on the many advantages which the Canal will secure have but little bearing on the particular point on which information was required, and they will not

not enable the Government to determine what portion of the cost should be charged to Agricultural funds, and communications respectively, and what share should be left to be provided for Local Funds.

2 As it appears that the project itself needs revision, the District Engineer should, in reviewing it, take care that the explanations and information needed are made complete and

To The Mr. Engr. Godavari
Chief Engr for the

S.C. Dtd 29/10/33

full by 20/9/33
L.M.V.

2579³
Oct. of 1873 Madras.

PUBLIC WORKS.

The District Engineer
Godavari

Dated

Recd.

Encl. 2

G. O. 25th Oct 1873, No. 2558.

Nos. 322 & 323

Section Canal, Godavari

My orders to the
District Engineer
to issue from the District
submitting full infor-
mation in connection
with the proposed
Section Canal.