

Read the following papers :—

- No. 6. From the Superintending Engineer, 2nd Division, to the Acting Chief Engineer for Irrigation, dated Camp at Masulipatam, 23rd October 1871, No. 93.

I HAVE the honour to submit the following remarks regarding the subject of paragraphs 2 and 3 of G. O., No. 2,412, 21st September 1871.

2. Shortly after Mr. Boswell joined this district, I endeavoured to explain to him the state of affairs and the method of procedure, and at my request he issued a notice (copy of which I enclose);
1 Copy of Notice, 31st March 1871. he has apparently quite lost sight of this,

though I have on more than one occasion called his attention to the condition of matters as being still the same.

3. It is true that the Government of India have insisted on the submission of the entire project, but I have not hesitated to urge the execution of any minor portion as soon as I was satisfied that it was complete in itself and could be advantageously carried out—the Budam project for example.

G. O., No. 2,598, 31st October 1870.

4. A great deal of money has been expended in this district without due consideration, in some instances injuriously, to afford water to clamorous applicants; land has been taken up or converted from dry into wet in consequence, and of course at some expense on the part of the cultivators, whose expectations were greatly raised.

5. Unfortunately no calculation had been made as to the capacity of the main canals, and I have seen as much as one foot surface fall (slope of channel bed being 2 inches) in our endeavours to force a large supply down a channel which was nothing like large enough to carry the required quantity.

6. The extension of the channel from Atapaka to the Upatair, mentioned by Mr. Boswell, is a very marked instance of want of consideration in applying. It is the end of a branch from the Polrazkodu, which takes off from the Pulairu the supply for which is conveyed, partly by the Masulipatam canal; partly by Ryves' channel.

7. The Polrazkodu is not finished; the Pulairu widening is still in progress; the Ryves' channel head, which is to carry 192,000 of 312,000 cubic yards, is about one-third excavated; not a drop can pass by it, and not a cooly has worked on it from the Gudivada sub-division which is most largely interested in its completion.

8. There is no reason why this channel should be cut in preference to any of the others in the neighbourhood where the ryots are equally pressing; but, on the other hand, the cultivators under the Butlerkodu, Bantumilly channel, etc., would have a better claim, because they used in former times to get some water from the Kistna flood, and because their land being alluvial would take up less of our supply than the sandy Kykalur country.

9. I do not know what is meant by the statements in the first part of paragraph 9 of Mr. Boswell's letter; there is no pressing necessity for completing the

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1st February 1872.*

channel from Vellabhapuram to tide-water. A head-sluice was built at Kullur, and side channel excavated some years ago at the request of the villagers, but not an acre of land has been cultivated under it, and Colonel Winscom closed the sluice; the main channel is large enough for its present purposes; the scheme for draining and irrigating the low ground in the Salavendra swamp is only just matured.

10. The side irrigation channel from Dugirala to Nizampatam was completed long ago; but the balance of the estimate has been reserved to provide a better head for one of the minor branches.

11. Mr. Boswell has entirely omitted to mention the Commamoor channel on which the whole of the Bapatla Taluq depends for its irrigation.

12. The continuation of the Arimanda channel to Budam was sanctioned in October 1870; but only Rupees 8,000 were allotted, and that in February 1871. With all deference to Mr. Boswell, I beg to express my opinion that very good progress was made in the few days before the expiration of the year.

13. I have already reported in my No. 76 of 25th ultimo, on the supply of drinking water to Masulipatam, which I may observe failed for eighteen days only: the town officers having admitted other water, lost twelve days more while baling this out.

14. I do not know what the Government contemplate as regards the transit boats. I have never heard any complaints as to their management. They appear to be very well suited for the ordinary passengers. Europeans do not approve of the accommodation, but they use them so rarely that the owners see no inducement to build more convenient boats; there is no monopoly, and I cannot but think that it would be bad policy on the part of Government to interfere with the carrying trade.

15. The boats convey passengers and light goods to and from all parts of the canal, and the owners, I believe, arrange their hours of starting and arriving in accordance with the requirements of the traffic. I have reason to suppose that the existing competition is very serviceable to the public, who can make their own terms.

16. There is certainly not a towing path in the Kistna District on which animals could be substituted for men. If Mr. Boswell had ever travelled after a heavy fall of rain he would not, I think, have suggested their employment on black cotton soil, nor do I think that horses or oxen could be procured at any moderate cost suited for such work.

No. 5.

Note by the Acting Chief Engineer for Irrigation.

No. 7. In letter No. 93, dated 23rd October 1871, the Superintending Engineer of the 2nd Division replies to the points adverted to by the Collector in his report to the Revenue Board on the progress of Public Works in the Kistna District in 1870-71, to which attention was called in G. O., No. 2,412 of 21st September 1871.

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1st February 1872.*

2. The Superintending Engineer points out that there is no pressing necessity for completing the channel from Vellabhapuram to tide-water, the stoppage of which the Collector regrets. Major Mullins in his report suggests that a lock should be built at Kullur to admit of navigation up to Penamudi, which is within two miles of the cusbah town of Repalli, thereby extending the navigation for twelve miles, or from twenty-seven to thirty-nine miles from Seetanagarum, but only contemplates its extension thence to tidal-water at a future date after the land the canal is intended to supply is taken up. The amount of the original estimate has been exceeded, and a supplemental estimate is now under preparation.

In G. O., No. 722, 10th March.

3. The Collector appears to have been in error in supposing that the side Irrigation channel from Dugirala to Nizampatam had been stopped for want of funds, the fact being that the channel has been completed, but a small balance which is available is to be expended in improving the head of one of the minor branches.

4. With regard to the incapacity of the main canal from Seetanagarum to Dugirala to supply the land which will eventually depend upon it, or which may be commanded by it, the Superintending Engineer states that the canal is sufficiently large for its present purpose, as much of the land which will eventually come under its influence, namely, that in Salavandra swamp is now unfit for cultivation, and though a supply channel was taken from Kullur it was never used.

5. The Collector reports that the Arimanda channel work has not progressed well, but he appears to have been unaware that funds for the work were not provided till February.

6. With regard to the Divi Purgana the Government, in paragraph 3 of their Order No. 722 of 10th March, stated their opinion that it was inexpedient to incur heavy expense in carrying out works for the protection of that island from the effects of floods, pending the completion of the project for bringing the island under the influence of the Kistna, the project for which is still being matured.

7. In paragraph 12 of his report the Collector states that he has urged the necessity of allowing subsidiary channels to be proceeded with where feasible without interfering with the larger Delta Projects, and, as an instance of such a channel, mentions the extension of the Kykalur from Atapaka to Upatair. The Superintending Engineer, however, points out this very channel as one for the extension of which application has been made without due consideration. The facts being that this channel is a minor branch from Polaykodu, which is itself incomplete, and which depends for its supply on the Pulairu, the widening of which is still incomplete, while the Pulairu is to draw its supply partly from the Masulipatam channel and partly from Ryves' channel, one-third of the latter work only being completed, and it being impossible to carry any water by it.

8. Under the circumstances it is clear that the extension of the Kykalur channel should not be permitted at present; there are other lands nearer the source of supply still unprovided with water, and were the lands under the Kykalur channel supplied one season the supply could not be ensured for the next, for if the water were required for lands nearer to the source of supply, it could not be passed down to Kykalur. The system of excavating the minor channels of distribution before the main channels, which only can bring water to them, should be prohibited, for it is not only likely to lead to disappointment and loss, but it

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1st February 1872.*

actually retards the completion of the main channels for the excavation of which labour cannot be obtained. There appear to be peculiar difficulties in procuring labour for the execution of new works in the Kistna District, for when work can be executed in the channel beds almost the whole of the available labour is required to clear silt from the existing channels, and if with or without the aid of the Collector the necessary labour to prosecute the works with vigour cannot be obtained in the district, arrangements must be made to obtain labour from neighbouring districts; this will, however, enhance the cost of the works.

9. With regard to the water-supply for the town of Masulipatam, the Superintending Engineer in No. 76, dated 25th September, states that it is at present impossible to supply the town throughout the year owing to the execution of work in the main canal immediately below the head-sluice; when this work is completed it is anticipated that by means of the two channels by which Masulipatam can be supplied it will be possible to maintain an uninterrupted supply to the town independently of reservoirs. The supply last season appears to have failed for eighteen days only, though this town appears to have been without water for thirty days in all owing to some arrangements made by the Municipal Officers; what these were is not very clear.

10. As regards the arrangements for navigation on the canals, the Superintending Engineer deprecates any interference on the part of Government. From Colonel Anderson's memorandum in G. O., No. 3,652, of 21st November 1868, it appears there is a daily service of passenger boats, and that the rates, though nominally fixed, vary according to the competition, and that when the boatmen combine together to demand a high rate their monopoly is broken by competition. The boats appear to be suitable for the conveyance of Native passengers and light goods; and as there seems to be considerable competition, a superior class of boat for passengers would doubtless be introduced were the demand for it really pressing. It appears to be undesirable to interfere with the law of demand and supply as regards the accommodation boats on the Kistna canals. The banks, unless sanded at considerable cost, are unsuitable for the passage of cattle in wet weather.

11. The Superintending Engineer of the 1st Division has lately been asked his opinion relative to any improvements as regards navigation on the Godavery canals, and his reply, when received, will be communicated to Government.

FORT ST. GEORGE,
6th January 1872.

(Signed) A. deC. SCOTT, Captain, R.E.,
For Acting Chief Engineer for Irrigation.

No. 8. ORDER THEREON, 1st February 1872, No. 305.

IRRIGATION, No. 1.

COMMUNICATED to the Board of
Revenue, with reference to G. O.,
No. 2,412, dated 21st September 1871.

2. For the reasons given in paragraph 8 of the Acting Chief Engineer's note the Government consider that it would be inexpedient to push forward the exten-

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1st February 1872.*

sion of the Kykalur channel as recommended by the Collector in paragraph 12 of his report printed with the Proceedings above quoted, as well as the execution of other minor distribution channels to the detriment of the main sources of supply, operations on which are greatly retarded by the scarcity of labour in the Kistna District. The Superintending Engineer should endeavour to import labourers from the adjoining districts with a view not only to the vigorous prosecution of the irrigation works, but also for the early completion of a permanent water-supply to the town of Masulipatam.

3. The existing arrangements for the conveyance of traffic on the Kistna canals do not at present appear to call for any overt acts of interference on the part of the Government.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Board of Revenue.
" Revenue Department.
" Superintending Engineer, 2nd Division.
" Acting Chief Engineer for Irrigation.

Exd. E. C. Shunker.

No. 93
880

From Colonel J. F. Moberly M.E.
Superintending Engineer 2nd Division

To Captain R. F. Oakes M.E.
Acting Chief Engineer
for Irrigation.

Enclosure
1 Copy of notice
21 March 1871

I have the honor to submit the following
remarks regarding the subject of paras 2 and 3 of
G.O. No 2412. 21st September 1871.

2. Shortly after Mr. Boswell joined this district,
I endeavoured to explain to him the state of af-
-fairs, and the method of procedure; and at my
request he issued a notice (copy of which I enclose)
he has apparently quite lost sight of this, though I
have on more than one occasion called his attention
to the condition of matters as being still the same.

3. It is true that the Government of India have
insisted on the submission of the entire project -
but I have not hesitated to urge the execution
of any minor portion, as soon as I was satisfied
that it was complete in itself, and could be
advantageously carried out. the Budam
project for example.

G.O. No 2598
31st Oct 1870.

4. A great deal of money has been expended

in this district without due consideration, in some instances injuriously, to afford water to clamorous applicants: land has been taken up, or converted from dry, into wet in consequence, and of course at some expense on the part of the cultivators, whose expectations were greatly raised.

5. Unfortunately, no calculation had been made as to the capacity of the main Canals. and I have seen as much as 1 ft surface fall (slope of channel bed being 2") in our endeavours to force a large supply down a channel which was nothing like large enough to carry the required quantity.

6. The extension of the Channel from Atapaka to the Upatair mentioned by Mr Boswell is a very marked instance of want of consideration in application. It is the end of a branch from the Polragkoon, which takes off from the Pulair, the supply for which is conveyed partly by the Daulipatam Canal, partly by Ryres Channel.

7. The Polragkoon is not finished, the Pulair widening is still in progress; the Ryres channel head which is to carry 192000 of 312000 Cubic yards is about $\frac{1}{3}$ excavated; not a drop can pass by it. and not a cooly

has worked on it from the Godivada grant Division which is most largely interested in its completion.

8. There is no reason why this Channel should be cut in preference to any of the others in the neighbourhood, where the rights are equally pressing - but on the other hand the cultivators under the Butter Koon, Bantunilly Channel &c. would have a better claim, because they used in former times to get some water from the Kistree flood, and because their land being alluvial would take up less of our supply than the sandy Kypaker country.

9. I do not know what is meant by the statements in the ^{part} first of para 9 of Mr Boswell's letter - there is no pressing necessity for completing the Channel from Vallabhapuram to tide water. A head sluice was built at Koller and side Channel excavated some years ago at the request of the villagers but not an acre of land has been cultivated under it and Colonel Winsome closed the sluice. the main Channel is large enough for its present purposes - the scheme for draining and irrigating the low ground in the Sahavendra swamp is only just matured.

10. The side irrigation Channel from Sugirala to Nizampatam was completed long ago, but the balance of the estimate has been reserved to provide a better head for one of the minor branches.

11. Mr. Boswell has entirely omitted to mention the Commamoor Channel on which the whole of the Bapulla talag depends for its irrigation.

12. The continuation of the Arimanda Channel to Budam was sanctioned in October 1870 but only Rs 8000 were allotted and that in February 1871. With all deference to Mr. Boswell, I beg to express my opinion that very good progress was made in the few days before the expiration of the year.

13. I have already reported in my No 76 of 25th ultimus, on the supply of drinking water to Masulipatam, which I may observe failed for 18 days only - The town Officers having admitted other water, lost 12 days more while dealing this out.

14. I do not know what the Government contemplate as regards the transit boats. I have never heard any complaints as to their management. They appear to be very well suited for the ordinary passengers. Europeans do not approve of the

but they use them so rarely that the owners see no inducement to build more convenient boats - there is no monopoly and I cannot but think that it would be bad policy on the part of Government to interfere with the carrying trade.

15. The boats convey passengers and light goods to and from all parts of the canal, and the owners, I believe, arrange their hours of starting and arriving in accordance with the requirements of the traffic. I have reason to suppose that the existing competition is very serviceable to the public who can make their own terms.

16. There is certainly not a towing path in the Krishna District on which animals could be substituted for men. If Mr. Boswell had ever travelled after a heavy fall of rain, he would not I think have suggested their employment on black cotton soil; nor do I think that horses or oxen could be procured at any moderate cost suited for such work.

I have the honor to be
Your most Obedt Servant
H. M. Colwell
Super Engineer &c

No 21

27.

Coolies required on the Beywada
Main Canal.

Collectors Office Kistna
3/12 March 1869

Petitions have been received praying for the extension of certain channels for irrigation. On referring them to the Supt. Engineer he represents that the widening of the mainline from Bezawada is progressing very slowly for want of labour and till this is done new channels cannot be excavated which will be dependent for their supply on the main line. If the villagers seek branch channels they should first enable the D.P.W. during the dry season and when the Canal is closed to widen out the main Canal. The small branches can be excavated at almost any season of the year. Instead of this many of the villagers in this District resort to the Godavary with a very short righted course looking that their own interests are concerned in the Krishna Channel throughout its length. The Sirdars & Deputy Sirdars in the Taluqs of Olden, Bezawada & Gudavari

1/2 paid J. A. C. Boeckh
Off. Collector -

1076.

Superintending Engineer
and Division

Camp Baputta
25 September, 187

From

Colonel J. F. Nicholas O.E.

Superintendent Engineer & ^{2d} _{1st} D.

Colonel of Carpendale R.E.

Secretary to Government

Public Works Department.

In reply to G.O. No. 74. 8th instant, have the honor to point out that in my opinion President of the Municipal Commission is laboring under a mistake in supposing that the town pays a tax of Rs 1264 towards the cost of storing water during the hot season. The amount was settled as a return to Government on the value of work already done for the conveyance of water and as I understood in no way regarded future expenditure. I was particularly careful to note that we could not ensure a supply throughout the year. The river itself falls below the level of the head sluice floor and the cost of preventing leaks in the under sluice alone would absorb nearly the whole of the tax -

2. The quantity of silt deposited by the water in the Canals is so great

that we are obliged to clear all to clear them of at least a portion of the obstructing masses.

3. We have moreover to widen, and construct, the retaining wall of the main Canal immediately below the Head Sluice and though all the labor procurable was employed we only built 400 out of 3000 ft. to such a height as would enable us to continue the wall during some portion of the irrigation season. This very important work, on which depends our capability of extending the irrigation, requires the complete closing of the Canal after it is finished we can arrange to carry the water by one or other of the two lines which feed the town duct.

4. This would completely supersede any necessity for reservoirs as proposed by the President, the construction of which would take up much of our already small supply of labour and excite still further delay. If the necessity could procure work people it would be better economy on their part to send them to Begmura

where their employment would benefit all.

I have the honor to be

Sir,
Your most Obedt Servant
J.D. J. Roberts (M.E.)
Supg Engineer &c

(True Copy)

12/12/71
J.D. J. Roberts
No 124
Forwarded to the Chief Engr
for Irrigation as requested
in his No 200 of 4 Dec/71

Let. Engr. Office
Abjorok
8 December/71

Note by the Acting Chief Engineer
for Migration.

In Letter N^o 93 dated 23rd October
1871, the Superintending Engineer
of the 2nd Division replies to the points
adverted to by the Collector in his
Report to the Revenue Board, on
the Progress of Public Works in the
Ratan District in 1870-71, to which
attention was called, in L.O. N^o
2412 of 21st September 1871.

The Superintending Engineer
points out that there is no prop-
ing necessity for completing the
channel from Vellakha paramu
to tide water the stoppage of
which the Collector regrets. Major
Mullins in his report, suggests
that a lock should be built
at Kullur, to a limit of Navi-
gation up to Pannadi, which
is within 2 miles of the cus-
tom house of Pappalli, thereby
extending the Navigation for 12
miles, or from 27 to 39 miles from
Kottanagaram, but only contemplates
its

In L.O. N^o 722
10th March.

72124

From the Chief Engineer

to the Collector

for Migration

for Migration

for Migration

for Migration

for Migration

for Migration

for Migration

for Migration

for Migration

for Migration

for Migration

its extension thence to tidal water at a future date after the land the canal is intended to supply is taken up.

The amount of the original estimate has been exceeded and a supplemental estimate is now under preparation.

3. The Collector appears to have been in error in supposing that the side irrigation channel from Duggirala to Nizampatam had been stopped for want of funds, the fact being that the channel has been completed but a small balance which is available is to be expended in improving the head of one of the minor branches.

4. With regard to the incapacity of the main canal from Sutanagarum to Duggirala to supply the land which will eventually depend upon it or which may be commanded by it, the Superintending Engineer states that the canal is sufficiently large

large for its present purpose as much of the land which will eventually come under its influence viz: that in Salavendra swamp is now unfit for cultivation and though a supply channel was taken from Kullur it was never used.

5. The Collector reports that the Arimanda channel work has not progressed well, but he appears to have been unaware that funds for the work were not provided till February.

6. With regard to the Siriburgana the Government in para. 3 of their order No. 722 of 10th March stated their opinion that it was inexpedient to incur heavy expense in carrying out works for the protection of that Island from the effects of floods pending the completion of the project for bringing the Island under the influence of the Krishna the project for which is still being matured.

7. In para 12 of his Report the Collector states that he has urged the necessity of allowing subsidiary channels to be projected with where feasible, without interfering with the larger Delta Projects & as an instance of such a channel mentions the extension of the Niykalur from Atupaka to Uputoor. The Superintending Engineer however points out this very channel as one for the extension of which application has been made without due consideration. The facts being that this channel is a minor branch from the Pelaykooche which is itself incomplete and which depends for its supply on the Pulairu the widening of which is still incomplete. While the Pulairu is to draw its supply partly from the Masulipatam channel and partly from Pyres channel $\frac{2}{3}$ of the latter work only being completed and it being impossible to carry any water

water by it.

3-12

8. Under the circumstances it is clear that the extension of the Niykalur channel should not be permitted at present. There are other lands nearer the source of supply still unprovided with water and were the lands under the Niykalur channel supplied one season the supply could not be ensured for the next for if the water were required for lands nearer to the source of supply it could not be passed down to Niykalur. The system of excavating the minor channels of distribution before the main channels which only can bring water to them should be prohibited for it is not only likely to lead to disappointment & loss but it actually retards the completion of the main channels for the excavation of which

which labor cannot be obtained. There appears to be peculiar difficulties in procuring labor for the execution of new works in the Pootna District for when work can be executed in the channel beds almost the whole of the available labor is required to clear silt from the existing channels & if with or without the aid of the Collector the necessary labor to prosecute the works with vigor cannot be obtained in the District arrangements must be made to obtain labor from neighbouring Districts this will however enhance the cost of the works.

9. With regard to the water supply for the Town of Masulipatam the Superintending Engineer in No. 76 dated 25 September states that it is at present impossible to supply the Town throughout the year owing to the execution of work in

in the Main Canal ²¹³ immediately below the head sluice when this work is completed it is anticipated that by means of the two channels by which Masulipatam can be supplied it will be possible to maintain an uninterrupted supply to the Town independently of Reservoirs. The supply last season appears to have failed for 10 days only though the Town appears to have been without water for 30 days in all owing to some arrangements made by the Municipal officers. what these were is not very clear.

10. As regards the arrangements for navigation on the Canals the Superintending Engineer deprecates any interference on the part of Government. From Colonel Anderson's Memo in G.O. 3652 of 21st November 1868 it appears there is a daily service of passenger boats and that the rates though nominally fixed vary according to the competi-

tion

tion and that when the boat-
men combine together to de-
mand a high rate their mono-
poly is broken by competition.
The Boats appear to be suitable
for the conveyance of Native
Passengers and light goods &
as there seems to be considerable
competition a superior class of
Boat for Passengers would doubt-
less be introduced were the de-
mand for it really pressing. It
appears to be undesirable to in-
terfere with the law of demand
& supply as regards the accommo-
dation Boats on the Pistua Canals.
The banks unless sanded at considera-
ble cost are unsuitable for the
passage of cattle in wet weather.

11. The Superintending Engineer
of the 1st Division has lately been
asked his opinion relative to any
improvements as regards Navigation
on the Godavery Canals & his reply
when received will be communicated to
Government.

Fort St. George

8 January 1872

Minister. Capt. W. H.

for Acting Chief Engr. for Irrigation.
To The Secretary to Govt. P. W. D.

G.O. 10th March / 71-264-265
 " 21 Sept. — " 358-359
 " 30th — " 170-531-532
 " 21 Nov. — 168-450-451

P. W. 1872 Report.

No. 78.
 The At. Chief Engr.
 for Irrigation
 to the Secretary to Govt.
 P. W. D.

No. 5
 Dated 6th Jan 1872
 Refd 6th Jan 1872
 Recd 8th Jan 1872
 Encl: 3.

No. 305. 1st Feb 72.
 Note on letter
 of the Supy Engr. 2nd
 G^o relating to the
 points adverted to
 by the Collector in
 his Report on the Pro-
 gress of Public works
 in the Madras Dist.
 in 1870-71-

No. 7.

617 Jan 72 A. 198

Public Works Department
 No. 305.
 Proceedings of the Madras Government
 Read the following
 From

The Acting Engineer }
 for Irrigation } (P. C. 105 of 6th Jan 72)

Communicated to
 the Board of Revenue
 with reference to P. C. No.
 2412 dated 21st September 1871.

For the reasons
 given in paragraph 8 of
 the Acting Chief Engineer's
 note the Government consider
 that it would be inexpedient
 to push forward the exten-
 sion of the Ry. Kalur
 Channel as recommended.

N.

by the Collector in paragraph
12 of his report printed
with the Proceedings above
quoted, as well as the execu-
tion of other minor distri-
bution channels to the
detriment of the main sources
of supply, operations on
which are greatly retarded
by the scarcity of labor in
the Kishna District. The
Superintending Engineer
should endeavour to import
laborers from the adjoining
districts with a view not
only to the vigorous prosecu-
tion of the irrigation works
but also for the early com-
pletion of a permanent
water supply to the town

of Masulipatam. 346

The existing ar-
rangements for the
conveyance of traffic
on the Kishna Canals
do not at present appear
to call for any overt
acts of interference on
the part of the Govern-
ment.

H. B. 100

42
5

To The B. of Revenue ✓
8 The B. of Revenue ✓
6 " Revenue Dept. ✓
5 " Supd. Eng. 2^d Div. ✓
5 " Acty. Chief Engineer ✓
for Irrigation. ✓
Sept 2-2-72

C/278

Govt. of 1872 Madras.

PUBLIC WORKS.

To the Board of Revenue

Dated

Recd.

Encl. 3

G. O. 1st Feb 1872, No. 305-

Nos. 6 @ 8

Public Works. Paper, etc.

desires me to take by the
Chief Eng. for Irrigation in
letter from the Superintd.
of the 2^d Division to contain
points adverted to by the
Collector in his report on
Public Works in the
Kistna Dist. for 1870/71.