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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. <u>1817</u>	Press ~~Mis.~~
<u>385-386</u>	
Dated <u>17</u> . <u>6</u> .	<u>1867</u> .

Not to be folded or roughly handled

No. 385. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 6th June 1867, No. 22:—

1. I have the honour, with reference to the Order of Government of the 2nd April last, No. 1,022, to submit a letter No. 101, of the 4th instant, from the Agent and Manager Madras Irrigation and Canal Company, with its accompanying resolution, dated 1st ultimo, of the Board of Directors of the Company.

2. The Board are convinced that the reservoir sites at Luckawally on the Budra, at Bagoly on the Toonga, and at the ruined tank of Mudduk Masoor on the Choardy, are likely to prove economical in cost, and that their capacity will not be in excess of the requirements of the Toombudra scheme. They wish, therefore, the Government to adopt measures for the transference of those sites to the Company.

3. Mr. Henslowe, in the last paragraph of his letter, has asked me to state what information with regard to these sites will be required by Government. The first thing needed will be a survey of each site, showing the maximum water-spread, the boundaries and extent of all cultivated and waste lands, with their areas, positions of villages, roads, &c., a scale of four inches to the mile will be sufficiently large for this; secondly, land plans for each village on the four chains to the inch scale, with areas. These particulars will enable the Revenue authorities to settle the value of the lands.

4. With regard to the Mudduk Masoor site, I should suppose that the Bombay Government will have no objection to transfer their interest in the present breached tank, if the Company agree to water all lands now under irrigation from the tank, or from the river below it, free of charge; and to provide water for a limited extension of that cultivation, say, to the extent which has been under contemplation by that Government, on payment to the Company of the same rate per acre that the Government may receive from existing irrigation in that locality.

5. Though there may perhaps be no reason for delaying the commencement of negotiations for the transfer of the three sites referred to, it would seem to be necessary, before they can be made over to the Company, that the latter should have submitted complete designs for the reservoir works, and not only this, but that they should show in what way they propose to raise capital for the construction of the reservoirs. The State cannot afford to purchase sites before they are likely to be required, and, as soon as it is known on what terms the sites can be obtained, it will be quite fair to call upon the Company to show that they are prepared with capital for the necessary works, while in the mean time it would be advisable that they should expedite, as far as possible, the preparation and submission of the plans, estimates, and specification reports for the dams; and it should not be forgotten that in works of this class the specification report is a very important document, and should not only describe the work itself, but the places and distances whence the materials, labour, &c., are to be obtained; the circumstances, such as periodical rains and freshes, healthiness or unhealthiness of climate, which influence the commencement and duration of the working season; the provision made for the security of the work during progress, and for the security also of the villages which would be endangered by an accident. Information as to the average discharge of the rivers in each month, and the maximum discharge in twenty-four hours, with

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17th June 1867.*

particulars of area of drainage basin, and average and maximum rain-fall, as far as records are available, will naturally form part of the data on which the designs may be based.

From the Agent and Manager Madras Irrigation and Canal Company, to the Consulting Engineer for Irrigation and Canal Company, dated Madras, 4th June 1867, No. 101.

1. With reference to your communication of the 7th March last, No. 289, on the subject of the reservoir sites, I am happy to be now able to place you in possession of the definite views of the Board.

2. The urgency of the demand for relief to the furnished inhabitants of Bellary rendered it absolutely necessary that Mr. Gordon should devote all his energies, during the latter part of last year, with his diminished staff to the completion of the Upper Bellary project.

3. Fortunately he was able, in spite of all the difficulties that were thrown in his way, to complete his investigation of the line, and at Christmas to submit to the Government, through you, their recognized representative, a thoroughly digested and well-considered project for the relief of Bellary. He was able not only to submit to the Government a complete set of most carefully executed plans and estimates, but to exhibit to you the line in all its details on the ground, so that you were in a position to report fully and minutely to the Government upon the project.

4. Mr. Gordon was also in attendance at Madras to afford every information and explanation to the Right Honourable the Governor (with whom he had the honour of an interview), and the Honourable the Council.

5. He also waited upon the Chief Secretary, and upon the Secretary to Government for Public Works with the same object.

6. Having then performed his duty in reference to the Upper Bellary project, Mr. Gordon hastened back to the Mysore country to prosecute his enquiries respecting the reservoir sites.

7. In the meantime all the information that had been hitherto collected had been laid before the Board of Directors, and on the 1st May they were able to come to a resolution, copy of which I have the honour to enclose.

Dated 1st May 1867.

8. That reservoirs of a sufficient capacity would be needed has, from the first, been a fact upon which all were agreed; the great difficulty lay in ascertaining at what points the most efficient reservoirs could be constructed at the smallest cost.

9. I need not recapitulate the laborious investigations that have been carried on with this object; for you have yourself fully considered the question, and reported to Government thereon. Suffice it to remind you that upwards of twenty sites have been investigated, and it now appears that none are likely to be discovered more eligible than the three which are respectively situated at Luckawally, at Mudduk Masoor, and on the Toonga at Mudaba or Bagoly. It is quite clear to the Directors that the whole of these three sites will be required sooner or later for the scheme given by the contract to the Company, and, therefore, there can be no possible reason why their transfer should not be sought at the earliest moment, while it is obvious that expense may be saved by proceeding in the matter without delay.

10. I will at once apply to Mr. Gordon for a full statement and description of the land which will be required for the formation of each of the three reservoirs referred to, for the purpose of submitting them to the Government.

11. It might, however, possibly facilitate this portion of Mr. Gordon's duties if you would state the exact character of the information required by the Government.

THE MADRAS IRRIGATION AND CANAL COMPANY.
8 and 9, Queen Street, Place, London, E. C.

At a meeting of the Board of Directors of this Company, held at the Offices as above on Wednesday, 1st May 1867,

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17th June 1867.*

It was unanimously resolved—That the information already supplied to the Government of Madras and to this Board, being conclusive as to the paramount importance of an ample provision being made for the storing of water to maintain irrigation and navigation throughout the year for the Toombuddra scheme, and it appearing also that the capacities of the sites selected for reservoirs at Luckawally, Bagoly, and Masoor, united will not be in excess of the estimated ultimate requirements, whilst the same sites are likely to prove economical in cost, this Board would respectfully suggest to the Madras Government the advisability of immediate measures being adopted with the view of securing the transference, by the Mysore Government, of the land comprised in such sites, as thereby delay in the construction of the retaining bunds and other works by the Company may be prevented.

(True Copy.)

(Signed) F. H. HENSLOWE,

Agent and Manager.

No. 386.

ORDER THEREON, 17th June 1867, No. 1,817.

IRRIGATION, No. 15.

1. The Government concur in opinion with the Board of Directors of the Madras Irrigation and Canal Company as to the importance of constructing reservoirs for providing water for irrigation under their canal, and for maintaining its navigation throughout the year, and His Excellency the Governor in Council will be prepared to enter into negotiations for the transfer to the Company of the land forming the sites mentioned as existing at Luckawally on the Budra, Bagoli on the Toonga, and Mudduk Masoor on the Choardy, on the Government being furnished with the surveys and land plans adverted to in paragraph 3 of the Consulting Engineer's letter.

2. As it has already been pointed out that Mr. Henslowe's statement that a thoroughly digested and well considered project for the construction of a canal from Wullabhappooram to Bellary, with a complete set of most carefully executed plans and estimates, ^{has} been submitted to Government, is erroneous and is without warrant, no further comment is necessary.

(True Extract.)

Colonel, R. E.,

Secretary to Government.

To the Consulting Engineer for Irrigation and Canal Company.

„ Manager for

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Exd. S. T. Augustin.

N^o 22

Consulting Engineer's Office,
Irrigation and Canal Co.
Madras 6th June 1867

From

Captain John. Mullins R.E.
Consulting Engineer Land Co.

To

Colonel C. J. O'Connell R.E.
Secretary to Government P.W.D.

Sir

I have the honor, with reference to the order of Government of the 2^d April last, N^o 1022, to submit a letter N^o 101 of the 4th Instant from the Agent and Manager Madras Irrigation and Canal Company with its accompanying Resolution, dated 1st May, of the Board of Directors of the Company.

2 The Board are convinced that the Reservoir sites at Luchawally on the Budra, at Bapoly on the Tonga, and at the ruined Tank of Muddake Masoor on the Chindry, are likely to prove economical in cost, and that their capacity will not be in excess of the requirements of the Bombardra scheme. They wish therefore the Government to adopt measures for the transference of those sites to the Company.

3 Mr. Henslowe in the last paragraph of his letter has asked me to state what information with regard to these sites will be required by Government. The first thing needed

will

will be a survey of each site, showing the maximum water spread, the boundaries and extent of all cultivated and waste lands, with their areas, positions of villages, roads, &c. A scale of 4 inches to the mile will be sufficiently large for this. 2^{ndly} Land plans for each village on the 4 chains to the inch scale, with areas. These particulars will enable the Revenue authorities to settle the value of the lands.

4 With regard to the Budduk Maieor site, I should suppose that the Bombay Government will have no objection to transfer their interest in the present breached Tank, if the Company agree to water all lands now under irrigation from the Tank, or from the river below it, free of charge, and to provide water for a limited extension of that cultivation, say, to the extent which has been under contemplation by that Government, on payment to the Company of the same rate per acre that the Government may receive from existing irrigation in that locality.

5 Though there may perhaps be no reason for delaying the commencement of negotiations for the transfer of the 3 sites referred to, it would seem to be necessary before they can be made over to the Company that the latter should have submitted complete designs for the reservoir works, and, not only this but, that they should show in what way they propose to raise Capital for the construction of the reservoirs. The State cannot

cannot afford to purchase land which is likely to be required, and, as soon as it is known on what terms the sites can be obtained, it will be quite fair to call upon the Company to show that they are prepared with Capital for the necessary works, while in the meantime it would be advisable that they should expedite, as far as possible, the preparation and submission of the plans, estimates, and specification reports for the dams, and it should not be forgotten that in works of this class the specification report is a very important document and should not only describe the work itself, but the places and distances whence the materials, labour, &c. are to be obtained; the circumstances, such as periodical rains and frosts, healthiness or unhealthiness of climate, which influence the commencement and duration of the working season; the provision made for the security of the work during progress, and for the security also of the villages which would be endangered by an accident. Information as to the average discharge of the rivers in each month and the maximum discharge in 24 hours, with particulars of area of drainage basin, and average and maximum rainfall, as far as records are available, will naturally form part of the data on which the designs may be based.

I have the honor to be,
Sir,

Your most obedient servant,

John Lubbock Captain R.E.,
Consulting Engineer J.F.C.

1817

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 17th June/67

Read the following

From the Engineer for the
M. R. C. Company.

(Here enter No. 22 dated 17th June/67)

The Government Council
in opinion with the Board
of Directors of the Madras
Irrigation ^{Company} as to the
importance of ~~the~~ ^{the} ~~the~~ ^{the}
constructing reservoirs for
providing water for irrigation
under their Canal, and for
maintaining its navigation
throughout the year, and
His Excellency the Governor
in Council will be pre-
pared to enter into
negotiations for the transfer
to the Company of the ^{lands} ~~lands~~
mentioned as existing at
Juckanally on the Budra,
Bajoli on the Looya, and

WOK

Read April 17 1867 - 32

of the M. R. C. Company
No. 22 dated 17th June/67
The Secretary to Government
Dated 17th June 1867
No. 7. {

Q. 2

Submits with reference to
No. 1022 of 22 April last,
letter from the Agent with
the accompanying Report,
from the Board of Directors,
two of the M. R. C. Co. with
reference to the same with
date 1817-17th June/67

1817-17th June/67

Mudduk Masoor on the
Board, on the Government
being furnished with
the surveys and land
plans adverted to in
para 3 of the Consulting
Engineer's letter -

[As it has already
been pointed out that]

Mr. Henslow's statement
that a thoroughly digested
and well considered
project for the construction
of a canal from
Wallabhapooram to Bellary,
with a complete set of
of most carefully executed
plans and estimates,
have been submitted to
Government, ~~has already~~
~~been pointed out~~, no
further comment is
necessary -

in error and without warrant.

See S.O. 1022

of 2nd April/67.

W.B.

18/3

To the Consulting Engineer
for the M. S. G. S. R. Works
Manager

two enclosures

Recd 18/6/67

P. W. 1867. Department.

Proc. of Govt. for Amel.

No. 1817

PROCEEDINGS OF GOVERNMENT.

Madras

Dated

17th June 1867

Informing the Consulting Engineer that negotiations will be entered into for the transfer to the Madras Irrigation and Canal Company of the land for sites for reservoirs at Suckawally on the Pandray, Wogeli on the Tunga, and Mudduk Mosoor on the Cheerdy, on the submission of the requisite surveys and Plans.

N. 385-386