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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

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Dated	14-9-	1864.

Not to be folded or roughly handled

*Proceedings of the Madras Government Public Works Department,
14th September 1864.*

No. 267. Read the following letter from Captain J. MULLINS, R. E., Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Madras, 24th August 1864, No. 82:—

SIR,

* In reply to your Memorandum, No. 61 of the 10th idem.

1. In continuation of my letter* No. 22 of the 20th June last, I have the honor to subjoin such information as has reached me regarding the work done by the Establishment forming the Bellary Division, which since the 1st January last has included the Reservoir Survey Establishment.

No. 44, 11th March.

2. The last information before Government is that contained in the Chief Engineer's letter which was transmitted with the late Consulting Engineer's Endorsement, No. 169 of the 12th March last. The only Reservoir Survey then in progress was that at Mudaba on the Lúnga, about twenty miles from Shemoga.

3. In February Messrs. Bradbury and Wilshaw were engaged in continuing the investigation of this site, ascertaining what part of the Mangalore road would be affected, and what would be the size of the Reservoir with a maximum depth of sixty feet. The Executive Engineer's report for April merely says that one of the above Surveyors was still engaged on the work, and that the other one was sick. This Officer appears, from Colonel Cotton's report for May and June, to have subsequently visited the site, and he did not think it a favorable one. The explorations were soon after stopped by the rains, and the Chief Engineer says that in October "Mr. Gordon will organize an efficient party and direct the work necessary to enable him to report on the site."

4. Mr. Gordon before joining the Bellary Division examined the country between Kurnool and the Kistna, and in his report for March he says that he thinks the best line for the western extension would be from Soonkasala via Raichore to the Kistna near Jalihal.

5. The remainder of the establishment belonging to the Bellary Division appears to have been engaged on the scheme for the proposed canal from Walavapore on the Toombuddra, via Hospett, to Bellary. The Chief Engineer remarks:† "The loss of the bench marks on the

† In his report for May and June.

"line of the Walavapore canal, as in the Nellore Division, renders a complete new survey necessary," and "Mr. Gordon has now a good force on the work and will quickly plan the works for the 1st section of the line." The surveys and levels were commenced on the 22nd of April. Surveys of the existing irrigation works were also being made, and it is to be hoped that the Chief Engineer's instructions to his assistants are now such that no more bench marks will be lost.

6. Mr. Gordon, in his report for April, mentions that one of his Assistants "having completed the line of survey for the Dharwar canal, had met him at Bellary about the middle of the month," but there is no other information about this canal.

7. There has also been some Reservoir investigation in the Cuddapah District, and the following notice of what is doing is taken from the Chief Engineer's report for May and June. "In the progress of the survey at the Gundicotta gorge and site of Reservoir above, it has been found that a line of Railway running from Cuddapah in the direction of Gooty has been so laid out as to cross the tract of country which would be occupied by our tank. I have therefore moved the party to another spot partially examined by Mr. Clarkson two years ago, and have requested the Agent to obtain from the Government such information respecting the Railway as will warrant an examination of the question with reference to a deviation of the line of Railway. When a reply is received from the Government, I will report further on the subject."

2nd. "The site now under examination would occupy a large area of country not I believe generally of much value. The dam would be long and expensive. I cannot report further on the case at present."

8. The position of the intended line of Railway near Gundicotta has been known for years, and but very little work would be needed to show to what extent its level would affect the for-

Engineer says that in October Mr. Gordon will organize

*Proceedings of the Madras Government, Public Works Department,
14th September 1864.*

mation of a Reservoir. I received a letter from the Agent on the 5th August 1864, No. 848, asking for certain information, and this is under reference to the Consulting Engineer for Railways, but the answer can make very little difference, as the Chief Engineer has made no definite proposal. It will be observed that the whereabouts of the other site to which the survey party has been moved is not mentioned.

* No. 2 of the 29th June last.

9. A letter* from the Chief Engineer, after mentioning that the Reservoir Survey Establishment had been absorbed by the new Bellary Division, and that therefore no separate record of the survey operations had been since made, concludes with this description of the work on which the Division Establishment were engaged: "They have been spread by order of the Board of Directors over the whole western country," and as I have received no copy of the Board's instructions on the subject, I have written to ask the Agent to furnish me with such papers as will afford a clear idea of what the Board's wishes are, and of the information which was sent to them from this country, and upon which their instructions were based.

10. I may say that really nothing is known in this Office regarding the prospects of success, which any of the works partially or wholly investigated hold out. The above few meagre details really give no information of any value, and

February to June 1864.

they refer to a period of five months, and for the preceding three months the Chief Engineer's letter, referred to at the beginning of paragraph 2 of this report, is all that is known, and I think that in the first place the Chief Engineer should furnish a sketch of the works which he proposes to investigate with the Bellary Division Establishment, explaining clearly the bearing of each work upon the several schemes which it is proposed to carry out, and that next the progress made in completing the investigations should be reported at least quarterly and that the results should be carefully given. If the Establishment is to be spread over the whole western country doing a little work here and a little there, and completing nothing, its labor will be thrown away and it will occasion a useless expense. In one of the reports, that of the Reservoir Survey Establishment for February, it is stated that "Mr. Donelland has been drawing his plans of his nearly eight months' work at the Maury Cunvai, and will now be employed in assisting Mr. Bradbury at the Mudaba site." This is all that is to be learnt up to June of the Maury Cunvai project. Perhaps the work is completed, and the plans are ready, as also the project, but as some six months have elapsed and nothing more has been said on the subject, it seems just as likely that the project has been dropped for a time and some other project taken up, and all this time there is the canal from Soonkasala, which is intended to be a line of first class navigation, and which has cost a large sum to make it so, likely to remain useless for many months in each year, because the arrangements for maintaining its supply are so behind-hand. The Dharwar canal, and the Walavapore Hospett and Bellary canal, may each be useful and beneficial works in their way, but they will not make the Toombuddra project pay, and what is wanted in the first instance is to do all that is requisite for the utmost possible efficiency of that project upon which the success or failure of the Company depends, for if that be not successfully completed, it is not to be supposed that additional and unguaranteed capital will be subscribed.

No. 268. ORDER THEREON, 14th September 1864, No. 2,660.

1. In the foregoing letter the Consulting Engineer reports upon the work done by the Reservoir Survey Establishment attached to the Irrigation Company, during the quarter which ended on the 30th April 1864. The Government regret to observe that the information contained in the report is most meagre and unsatisfactory, leaving them in almost perfect ignorance as to the progress made by the Survey parties in the discharge of their important duties.

* No. 44, 11th March 1864.

2. In his report* for the quarter ending 31st January last, the Company's Chief Engineer promised to submit, in his next quarterly report, full information regarding the site of the

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14th September 1864.*

proposed Mudaba reservoir, and the Government are greatly disappointed to find the report almost silent upon this point.

3. The survey of the proposed reservoir at Gundicotta seems to have been incomplete, and unsatisfactory in its results.

4. The Chief Engineer's statement that the Bellary Division Establishment has been spread, by order of the Board of Directors, over the whole western country, is most vague, and the Government request that they may be furnished with a copy of the orders issued by the Board upon this subject.

5. The Government are altogether dissatisfied with the information submitted upon this important subject. They approve of the Consulting Engineer's suggestion, and request that the Chief Engineer may be called on to furnish, as soon as possible, a list of the works upon which he proposes to employ the Bellary Division Establishment, accompanied by a rough plan, and with full explanation of the bearing of each work upon the several schemes which it is proposed to carry out. The Government trust that the quarterly reports will in future be submitted punctually, and that they will contain full details of the operations of each Survey party.

(True Extract.)

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Deputy Secretary to Government.

To the Consulting Engineer, Irrigation and Canal Company.
" Agent for do. do.

Exd. S. T. Augustin.

Engineer says that in October Mr. Gordon will organize an

5th Consulting Engineer's Office,
Irrigation Canal Company
Madras, 24 August 1864.

N^o 82.

From
Captain J. Mullins R.E.
Civil Engineer & Co.

To
The Secretary to Government
Department of Public Works.

In reply to your Memo.
N^o 61 of the 10th inst.

N^o 44 - 11 March.

1. In continuation of my letter N^o 22 of the 20th inst. last, I have the honor to subjoin such information as has reached me regarding the work done by the establishment forming the Bellary Division, which since the 1st January last has included the Reservoir Survey Establishment.

2. The last information before Government is that contained in the Chief Engineer's letter which was transmitted with the late Consulting Engineer's endorsement N^o 169 of the 12 March last. The only Reservoir Survey then in progress was that at Mudaba on the Tungabhadra, about 20 miles from Shemoga.

3. In February Messrs Bradbury and Wilschaw were engaged in continuing the investigation of this site ascertaining what part of the Mangalore Road would be affected and what would be the size of the reservoir with a maximum depth of 60 feet. The Executive Engineer's report for April merely says that one of the above surveyors was still engaged on the work, and that the other one was sick. This officer appears from Colonel Cotton's report for May and June, to have subsequently visited the site, and he did not think it favorable. The explorations were soon after stopped by the rains and the Chief Engineer says that in October Mr Gordon will organize an

an efficient party and direct the work necessary to enable him to report on the site."

4. Mr. Gordon before joining the Bellary Division examined the country between Turnool and the Krishna, and in his report for March he says that he thinks the best line for the western extension would be from Boonkasala via Raichore to the Krishna near Salikal.

5. The remainder of the establishment belonging to the Bellary Division appears to have been engaged on the scheme for the proposed Canal from Halewarpore on the Coimbatore, via Hospet, to Bellary. The Chief Engineer remarks "The loss of the bench marks on the line of the Halewarpore Canal as in the Bellary Division renders a complete new survey necessary" and Mr. Gordon has now a good force on the work and will quickly plan the works for the 1st section of the line. The surveys and levels were commenced on the 22nd April. Surveys of the existing irrigation works were also being made, and it is to be hoped that the Chief Engineer's instructions to his assistants are now such that no more bench marks will be lost.

6. Mr. Gordon in his report for April mentions that one of his assistants having completed the line of survey for the Dharwar canal, had met him at Bellary about the middle of the month, but there is no other information about this canal.

7. There has also been some reservoir investigation in the Cuddapah District, and the following notice of what is doing is taken from the Chief Engineer's report for May and June. "In the progress of the survey at the Gundriotha gorge and site of Reservoir above, it has been found that a line of railway running from Cuddapah in the direction of Cooty has been laid out as to cross the back of country which would be occupied by our tanks. I have therefore moved the party to another spot partially examined by Mr. Clarke two years ago, and have requested the Agent to obtain from the Government such information respecting the railway as will warrant an examination of the question with

with reference to a deviation of the line of railway. When a reply is received from the Government, I will report further on the subject."

8. The site now under examination would occupy a large area of country not I believe generally of much value. The dam would be long and expensive. I cannot report further on the case at present."

9. The position of the intended line of railway near Gundriotha has been known for years, and but very little work would be needed to show how far the level would affect the formation of a reservoir. I received a letter from the Agent on the 5th August 1864, asking for certain information and this is under reference to the Consulting Engineer for Railways, but the answer can make very little difference, as the Chief Engineer has made no definite proposal. It will be observed that the whereabouts of the other site to which the survey party has been moved is not mentioned.

10. A letter from the Chief Engineer, after mentioning that the Reservoir Survey Establishment had been absorbed by the new Bellary Division, and that therefore no separate records of the survey operations had been since made, concludes with this description of the work on which the Division Establishment were engaged. "They have been spread by order of the Board of Directors over the whole western country, and as I have received no copy of the Board's instructions on the subject I have written to ask the Agent to furnish me with such papers as will afford a clear idea of what the Board wishes are, and of the information which was sent to them from this country, and upon which their instructions were based."

11. I may say that really nothing is known in this office regarding the prospects of success, which any of the works partially or wholly investigated, hold out. The above few meagre details really give no information of any value, and they refer to a period of 5 months and for the preceding 3 months the Chief Engineer's letter, referred to at the beginning of

of para 2 of this report, is all that is known, and I think
that in the first place the Chief Engineer should furnish
a sketch of the works which he proposes to investigate with
the Bellary Division Establishment, explaining clearly the
bearing of each work upon the several schemes which it is
proposed to carry out, and that next the progress made in com-
pleting the investigations should be reported at least quarterly
and that the results should be carefully given. If the Estab-
lishment is to be spread over the whole western country
doing a little work here and a little there, and completing no-
thing, its labor will be thrown away and it will occasion a
useless expense. In one of the reports, that of the Revenue
Survey Establishment for February, it is stated that Mr.
Donnellan has been drawing his plans of his nearly 8 months
work at the Maury Conroy, and will now be employed in assist-
ing Mr Bradbury at the Mirdaba site. This is all that is
to be learnt up to date of the Maury Conroy project. Perhaps
the work is completed, and the plans are ready, as also the
project, but as some six months have elapsed and nothing
more has been said on the subject, it seems just as likely
that the project has been dropped for a time and some other
project taken up, and all this time there is the canal from
Sankaxala, which is intended to be a line of first class
navigation, and which has cost a large sum to make it so,
little to remain useless for many months in each year,
because the arrangements for maintaining its supply are so
behind hand. The Dharmar Canal, and the Halanapoor
Hoopet and Bellary canal, may each be useful and bene-
ficial works in their way, but they will not make the Com-
buddra project pay, and what is wanted in the first instance
is to do all that is requisite for the utmost possible efficiency
of that project upon which the success or failure of the
Company depends, for if that be not successfully com-
pleted, it is not to be supposed that additional and unguar-
anteed

unguaranteed capital will be subscribed.

I have the honor to be,
Sir,
Your most obedient servant,
Wm. Williams Captain,
Census Engineer for S. C. Company.

Ed. M. M. M.

Public Works Department
No. 2660

Proceedings of the Madras Government Under date the 14th September 1864. Read the following

From The Cons^g Eng^r for I. & C. Co.
In continuation of his letter No 22
of 20th June last subjoins such infor-
mation as has reached him regarding the
work done by the Establishment forming
the Bellary Dy^y which since the 1st
January last has included the Reservoir
Survey Establishment.

H.E. 24th August 1864
No 82

In the foregoing letter
the Consulting Engineer
reports upon the work done
by the Reservoir Survey
Establishment attached
to the Irrigation Company,
during the quarter which
ended on the 30th April
1864. The Gov^t regret
to observe that the in-
formation contained in
the report is most meagre
& unsatisfactory, leaving
them in almost perfect
ignorance as to the pro-
gress made by the Survey
parties in the discharge
of their important duties.
In his report for the
quarter ending 31st
January last, the Comptroller

This is to be reported
home at an early date
J.P.

W. 44
11. March 1864

Pro. 1st Divⁿ / Encl^d 11. 12.
No. 10. June 1864.
" 11. July
Copy in a letter to Eng^r and
of 23rd November 1864.
The Consulting Eng^r for I. & C. Co.
The Secretary to Gov^t. Madras.

Recd 24th August 1864.

In continuation of the letter
of 20th June last regarding
and informant as has reached him
regarding the work done by the Dy.
forming the Bellary Dy. and the
the 1st January last has included the
Reservoir Survey Establishment.

2. 20. 1864. 1864. 2. 20. 1864.

Chief Engineer promised to submit, in his next quarterly report, full information regarding the site of the proposed Mendenhall Reservoir, and the Govt. are greatly disappointed to find the report almost silent upon this point.

The survey of the proposed reservoir at Gundersotta seems to have been incomplete, & unsatisfactory in its results.

The Chief Engineer's statement that the Bellamy Division Establishment has been spread, by order of the Board of Directors, over the whole western country, is most vague, and the Govt. request that they may be furnished with a copy of the orders issued by the Board upon this subject.

The Govt. are altogether dissatisfied with the information submitted upon this important

Subject. ~~and they~~ approve of the Consultant Engineer's suggestion, request that the Chief Engineer ~~may~~ be called on to furnish, as soon as possible, a ~~complete~~ list of the works upon which he proposes to employ the Bellamy Division Est., accompanied by a rough plan, and with a full explanation of the bearing of each work upon the several schemes which it is proposed to carry out. The Govt. trust that the quarterly reports will in future be submitted punctually, & that they will contain full details of the operations of each survey party.

The Chief Engineer J. H. Co. 18
To the Agent - 3
To the Secy.

Sept. 15th September.

Copy in a Letter to England
5/23. Number 78 of 1861.

1864 Depart
Pro: of Govt for Sept

No 2660
Pro: of the A. Govt
14 September/64

Letter from the
Comd. Eng. W. B. B. re.
reporting upon the
works done by the
Reservoir Survey
Estab^l attached to
the Co. during the
2nd which ended
on the 30 April/64
W. B. B. signed his name
- name "

No 267. 218

2. 2nd Sept 1864. A. 74
11. 2660. 11. 2nd Sept 1864

2. 2nd Sept 1864. A. 74