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MADRAS RECORD OFFICE.**Government of Madras.****Public Works DEPARTMENT.**

G.O. No. _____

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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
25th October 1864.*

No. 475. 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, 7th October 1864, No. 118:—

SIR,

1. I have the honor to transmit, for the information of Government, with reference to their Order, No. 2,660 of the 14th September 1864, a letter from the Chief Engineer, received through the Agent, in reply to the observations therein made on the subject of the information afforded, regarding the operations of the Reservoir Survey Establishment, now included in the Bellary Division.

No 810, 26th September.

2. All the information afforded by the reports to which the Chief Engineer refers was laid before Government, and Colonel Cotton does not notice any point on which that information was either misunderstood, or its value under-rated.

3. The Chief Engineer in paragraphs 7 and 8 of his letter says, that the Bellary Establishment is engaged upon the investigation of the project for a Canal from the Toombuddra at Walavapore, and on "the exploration and survey for reservoirs to afford a dry weather supply of water for the canal below Kurnool, as well as those proposed in Bellary." There are two points here to be noticed:—First; that really nothing is known to Government as to the prospect of the early submission of the plans and estimates for any one reservoir. I believe that one site on the Huggry was investigated by one Officer, that a site on the Hindry has also been examined, and more recently that sites at Luckavully on the Budra and at Múdába on the Tunga have been occupying the attention of the Officers of the Company. It is known also that this last named site is not considered very promising, and it is now stated* that the plans for the Luckavully reservoir are under the consideration of the

* Chief Engineer's letter, paragraph 10.

Company's Consulting Engineer in England; but beyond this there is no information, and on so important a subject as the supplemental supply for the canal below Kurnool and above the Pennair, in connection with which part of the "Toombuddra project," these sites have been proposed, it would not be too much, I think, to expect that at this period, when the Chief Engineer anticipates that within another year nearly 80 miles of the canal will be opened, he should be ready to afford some definite information as to what the prospects of succeeding in providing a supplemental supply are, for without such additional water, Colonel Cotton must be well aware that but very partial use of the canal for navigation can be made. The Establishment called the Gundicottah Survey Party is engaged in seeking for reservoir sites on the affluents of the Pennair, those reservoirs being intended to supplement the supply of the sections of the canal below the 9th which will fall into the Pennair at or near Adamapilly. The provision of these reservoirs is not so immediately important as is the case with those for the upper sections of the canal, but even for these, if the projects are to be sent to England for consideration in the first place, there is very little time, if any, to spare.

4. The second point to be noticed is the last part of the concluding sentence of paragraph 8 of the Chief Engineer's letter "as well as those proposed in Bellary." It would I think be a very great pity were the attention of the Establishment to be turned to investigating sites for reservoirs for the Walavapore and Bellary Canal, or for any other part of the Bellary District before the requisite work of this description, in connection with the Main Canal below Soonkasala, has been completed. No scheme however promising should be allowed in any way to postpone the completion of reservoir estimates for the Kurnool irrigation and navigation. The interests of the Company, no less than of the Government, are greatly concerned and are identical in this respect.

*Proceedings of the Madras Government, Public Works Department,
25th October 1864.*

5. In paragraph 10 Colonel Cotton remarks that "all that has been done with respect to the Maury Convey project has passed through the hands of the Consulting Engineer," but the plan and estimate for the Dam on Colonel Cotton's section was transmitted to Government on the 3rd November 1863, No. 90* by the late Consulting Engineer, and as Mr. Donolland was represented in the February Report† as having been engaged until then upon the project, it was natural that I should suppose that further investigations had been made.

* Proceedings Madras Government, No 3,428, 23rd November 1863, Paragraph 10 of my letter.

† 1864.

6. There is of course not the least necessity for the Chief Engineer to compile a quarterly report of the operations of the Bellary Division Establishment. Some months since the Division Monthly Reports generally ceased to be transmitted to this Office, and on a reference it appeared that the Chief Engineer objected to those documents, which some times contained views in which he did not concur, being used by me in preparing periodical reports for the information of Government. Thereupon Colonel Cotton was asked to provide a substitute for these reports either monthly or quarterly, and ultimately he agreed that a copy of his own monthly report should be forwarded to this Office, and this has been done from May to July. It is a very easy matter to prepare a quarterly report in this Office, as required by Government, provided only the requisite materials are duly placed at my disposal by the Chief Engineer; and that those materials should reach me monthly is in one respect an advantage, because explanations upon any doubtful point can then be more readily obtained.

7. I hope that ere long some of the reservoir projects will be sufficiently advanced to enable me to examine on the spot the details of the proposed arrangements, and thus save time when the estimates are transmitted for sanction. I shall be quite ready to visit the sites whenever the Chief Engineer may intimate that the investigations are sufficiently advanced to fix the principal details, and to show the area and position of the land to be submerged, together with the approximate cost and capacity of the reservoir, and the general arrangements by which its supply will be conveyed to the canal; and it might be well, perhaps, were the visit to be made either prior to the transmission of the estimates to the Board of Directors in England, or at any rate before their return to India, so that I may, without occasioning delay, be in possession of the necessary information for reporting on all needful points when transmitting the estimates for the consideration of Government.

No. 476. ORDER THEREON, 25th October 1864, No. 3,071.

The Government having already noticed the meagre and unsatisfactory information, which has been laid before them, of the progress made by the Reservoir Survey Establishments, resolve to point out to the Chief Engineer, with reference to his letter of the 26th September 1864, No. 810, that it is essential that they should be furnished with clear and detailed reports of the results of the investigations which have been undertaken, and they trust his future reports of the operations of the Survey parties will be of this character.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Consulting Engineer, Irrigation and Canal Company, with one enclosure.
" Manager for do.
Exd. T. O'Connor. do.

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Consulting Engineer's Office,
Irrigation & Canal Company,
Madras, 7th October 1864.

N. 118.

From,
Captain, J. Mallins R.E.
Consulting Engineer, H.C.C.
To,
The Secretary to Government,
Department of Pub. Works.

N. 810-26 Sept/

1. I have the honor to transmit for the information of Government, with reference to their order N. 2660 of the 14th September 1864, a letter from the Chief Engineer received through the Agent, in reply to the observations therein made on the subject of the information afforded, regarding the operations of the Reservoir Survey Establishment, now included in the Bellary Division.

2. All the information afforded by the reports to which the Chief Engineer refers was laid before Government, and Colonel Cotton does not state any point on which that information was either misunderstood or its value underrated.

3. The Chief Engineer in paras. 7 and 8 of his letter says, that the Bellary Establishment is engaged upon the investigation of the Project for a canal from the Coombudra at Malavapure, and on the exploration and survey for reservoirs to afford a dry weather supply of water for the canal below Kurnool as well as those proposed in Bellary. There are two points here to be noticed. First that really nothing

nothing is known to Government as to the prospect
of the early submission of the plans and estimates
for any one reservoir. - I believe that one side on
the Nuggur was investigated by one officer, that
side on the Sindry has also been examined, and
more recently that sides at Luckavully on the Pundia
and at Mupaha on the ~~Tunga~~ have been occupying
the attention of the officers of the Company. It is
known also that this last named side is not con-
sidered very promising, and it is now stated that ^{Chief Engineer's letter} para: 10. -
the plans for the Luckavully Reservoir are under
the consideration of the Company's Consulting
Engineer in England. - but beyond this there is no in-
formation, and an important subject as the
supplemental supply for the canal below turnool
and above the Pennair, in connection with which
part of the Coombudra Project these sides have
been proposed, it would not be too much, I think, to
expect that at this period, when the Chief Engineer
anticipates that within another year nearly 80 miles
of the canal will be opened, he should be ready to
afford some definite information as to what the
prospects of succeeding in providing a supplemental
supply are, for without such additional water, Colo-
nel Cotton must be ^{well} aware that but very partial
use of the canal for navigation can be made. -
The Establishment called the Cundicattah Survey
party is engaged in seeking for reservoir sites on the
affluents of the Pennair, those reservoirs being in-
tended to supplement the supply of the sections of
the canal below the 9th which will fall into the
Pennair at or near Adamapilly. The provision of these
reservoirs is not so immediately important as is

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the case with those for the upper sections of the
canal, but even for these, if the projects are to be
sent to England for consideration in the first place,
there is very little time, if any, to spare. -
4. The second point to be noticed is the last
part of the concluding sentence of para: 8 of the
Chief Engineer's letter, as well as those proposed in
Bellary. - It would I think be a very great pity not
to draw the attention of the establishment to be turned to
investigating sites for reservoirs for the Malavapoor
and Bellary Canal, or for any other part of the
Bellary District before the requisite work of
this description in connection with the Main
Canal below Coombudra has been completed. -
It is here however promising should be at-
tended in any way to postpone the completion
of reservoir estimates for the turnool irrigation
and navigation. - The interests of the Company, no
less than of the Government, are greatly concerned
and are identical in this respect. -
5. In para: 10 Colonel Cotton remarks that all
that has been done with respect to the Maury Con-
vey Project has passed through the hands of the
Consulting Engineer, but the plan and estimate
for the plan on Colonel Cotton's section was trans-
mitted to Government on the 3rd November 1863 -
* P.M. L. 11: 5128-23 ^{thompson} 11: 90 by the late Consulting Engineer, and as Mr.
para: 10 of my letter. Donnelland was represented in the February Report
as having been engaged until then upon the project
it was natural that I should suppose that further
investigations had been made. -
6. There is of course not the least necessity for the

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