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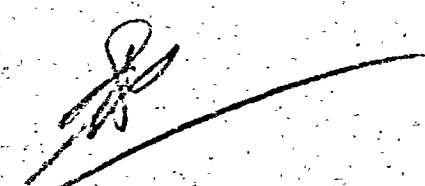
MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 341	Press Mis.
658-59	
Dated 27 . 1	1870 .

Not to be folded or roughly handled



*Proceedings of the Madras Government, Public Works Department,
27th January 1870.*

No. 658. Read the following letter from Major J. F. FISCHER, R. E., Acting Superintending Engineer, 1st Division, to the Secretary to Government, Public Works Department, dated Dowlaishwarum, 20th December 1869, No. 3,358:—

ADVERTING to G. O. of the 7th July last, No. 2,195, I have the honour to report, for the information of Government, that I have lately visited the site of the Bayana Calingulah with the Executive Engineer, and certainly did not find the work to be so decidedly a failure as had been reported; in fact, I am of opinion Captain Ryves must have altogether misunderstood Mr. Andrews in the matter, and, not having seen the work himself, he came to the conclusion it was altogether wrong and had better be re-placed by a new design.

2. If this could be recommended, Rupees 3,000 would not be sufficient to execute the work with. The rock on which such a work should be built is at least 400 yards higher up the river, and, as the banks are from six to eight yards in height, a dam at least twelve feet high is required, and even then the cutting would be from four to six yards in depth through very hard soil, and, I fear, in part through rock. I do not, therefore, advise this scheme being undertaken, the more as I consider Mr. Andrews has done very well so far with the old work, and he should be allowed to complete it in his own way.

3. Finding he had no time before the setting in of the last monsoon season to raise the crest of the old calingulah permanently, he fixed in a temporary wooden work along the crest at a cost of only Rupees 120, which has answered remarkably well, and turned the water into the channels as well as any work could do, without at all damaging the body of the calingulah, and injuring only in a trifling manner the cut-stone apron; but the old cushion wall has given way, but this is not to be wondered at, as it was very badly built of round builders almost immediately under the fall of the water. I have requested Mr. Andrews to remove this wall altogether and build a new one about thirty feet lower down on some rocks with its crest raised three feet above the old cut-stone apron. There will then be a water-cushion fifty feet wide and three feet deep to receive the over-fall, and, as the soil is hard and stony, this will no doubt answer all purposes.

4. The head of the supply-channel will require to be cleared out after every fresh: this I fear is quite unavoidable. As these rivers carry so much silt, it is quite impossible to do anything else for them at any moderate cost.

5. I have now been through a large part of the dry talooks of this district and looked at a good many of the tanks, and regret to report these are all in a very unsatisfactory state; in fact, in their first construction they were badly built, without sluices or waste weirs in most instances, and they have never been put into proper order since. With such restrictions as are now enforced, I fear little or nothing can be done for them. Such repairs as are emergently required are always sanctioned as far as the funds will allow; but to develop or restore these irrigation works would require an expenditure of three or four lacs, and, as there is no probability of our getting this money at present, I have ordered the Range Officers to take steps only to secure the works, where these are absolutely necessary, to save them from total ruin.

*Proceedings of the Madras Government, Public Works Department,
27th January 1870.*

No. 659. ORDER THEREON, 27th January 1870, No. 341.

IRRIGATION, No. 27.

THE Government consider, with reference to the report now made by Major Fischer and to the opinion expressed by Captain Ryves in his letter of the 10th December 1868, No. 165, (Proceedings, Madras Government, 7th July 1869, No. 2,195,) that the circumstances of the Bayana Calingulah and of the cultivation under it should be more accurately ascertained than appears as yet to have been done, and that such alterations or modifications of the work as may be necessary should be based upon a knowledge of the level of the lands to be watered, and of the best consequent level and inclination of the channels of supply.

2. In the absence of detailed information it would appear advisable to raise the existing dam to such a height as will enable the irrigated lands to be properly commanded, rather than to construct a new work at such small distances above it as either the 100 yards mentioned by Captain Ryves, or the 400 yards specified by Major Fischer.

3. With regard to the last paragraph of the Superintending Engineer's letter, the Government think that the tanks referred to require to be examined carefully, one by one, with a view to ascertain whether they can be placed in an efficient state at an outlay which would be not out of proportion to the cultivation and revenue under them. Thus, in submitting the estimates, the ayacut area, and assessment, the average cultivation and collections, and the outlay on repairs should be shown for the last twenty or twenty-five years in quinquennial periods, and it will then be seen whether, owing to neglect for a long time past or to other causes, it will be proper to make more liberal grants for the restoration of these tanks to an efficient condition than would otherwise be reasonable. These remarks will indicate sufficiently the principle on which irrigation works of this description should be dealt with, and it is only necessary to add that the estimates should provide for all reasonable requirements as regards escapes, sluices, etc., and that the opinion of the Collector should be obtained as to whether, in each particular case, it would be advisable to make the outlay which may be found to be necessary, and, if not, as to the course to be adopted.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 1st Division.
„ Revenue Department.

Exd. A. S. Rodgers.

SUPERINTENDING ENGINEER'S OFFICE, 1st DIVISION

DOWLAISHWARUM, 20 December 1870

No. 3358

From

Major J. L. Fischer R.E.
Acting Superintending Engineer

1st Division

To

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

Madras

SIR,

I directing to G.O. of the 7th July last No. 2195, I have the honor to report for the information of Government that, I have lately visited the site of the Bayana Calingulah with the Executive Engineer, and certainly did not find the work to be so decidedly a failure as had been reported, in fact, I am of opinion, Captain Ryves must have altogether misunderstood Mr. Andrews in the matter, and not having seen the work himself he came to the conclusion, it was altogether wrong and had better be replaced by a new design -

2. If this could be recommended Rs. 3000 would not be sufficient to execute the work with. The rock on which such a work should be built, is at least 400 yards higher up the river

river, and as the banks are from 6 to 8 yards in height, a dam at least 12 feet high is required, and even then, the cutting would be from 4 to 6 yards in depth thro' very hard soil, and I fear in part, thro' rock, I do not therefore advise this scheme being undertaken the more, as I consider Mr. Andrews has done very well so far with the old work, and he should be allowed to complete it in his own way.

3. Finding he had no time before the setting in of the last Monsoon season to raise the Crest of the old Calingalah permanently he fixed in a temporary wooden work along the crest, at a cost of only Rs. 120, which has answered remarkably well, and turned the water into the Channels as well as any work could do, without at all damaging the body of the Calingalah, and injuring only in a trifling manner, the Cut stone Apron, but the old Cushion Wall has given way, but this is not to be wondered at, as it was very badly built of round builders almost

almost immediately under the fall of the water. I have requested Mr. Andrews to remove this wall altogether, and to build a new one about 30 feet lower down, on some rocks, with its crest raised 3 feet above the old Cut-stone Apron. there will then be a water Cushion 50 feet wide and 3 feet deep to receive the overfall, and as the soil is hard and stony, this will no doubt answer all purposes.

4. The head of the supply Channel, will require to be cleared out after every fresh, this I fear is quite unavoidable, as these rivers carry so much silt it is quite impossible to do anything else for them at any moderate cost.

5. I have now been thro' a large part of the dry taluqs of this District, and looked at a good many of the tanks, and regret to report, these are all in a very unsatisfactory state, in fact, in their first construction they were badly built, without sluices or waste Weirs in most instances, and

and they have never been put into proper
order since; with such restrictions as are
now enforced, I fear little or nothing
can be done for them, such repairs as are
urgently required, are always sanctioned
as far as the funds will allow, but to
develop, or restore, these Irrigation Works
would require an expenditure of \$3 or \$4
lacs, and as there is no probability of our
getting this money at present, I have
ordered the Range Officers to take steps
only to secure the Works where these are
absolutely necessary to save them from
total ruin.

I have the honor to be,
Sir,

Your Most Obedt Servt

Wm H. Ketchum Major &c

A. S. Superintendent Engineer 1st Division

Proceedings of the Madras Govt.

Under date the 27 January 1870

Read the following

From The Dy. Superintg. Engineer

1st Division H. E. No 3358 of 20th December/69

The Government consider with reference to the report now made by Major Fischer, and to the opinion expressed by Capt. Byres in his letter of the 10th Decr/68, No 165, (P.M. G. 7th July/69, No 2195) that the circumstances of the Rayana Catingulak and of the cultivation under it should be more accurately ascertained than appears as yet to have been done, and that

such

N.
A. V. A.
M. E.

From The Dy. Superintg. Engineer
No 3358 No 5378

To The Secretary to Govt.
Madras

Dated 20th December/69
R^o 27

Reports for the information of Government that the Dy. Superintg. Engineer informs that he has ordered Dy. Superintg. Officers to take steps to secure the works where there are absolutely necessary to save them from total ruin

No 341, 27 January 1870

No 658

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Each alteration or modification of the work as may be necessary should be based upon a knowledge of the level of the lands to be watered, and of the present consequent level and inclination of the channels of supply.

2. In the absence of detailed information it would appear advisable to raise the existing dam to such a height as will enable the irrigated lands to be properly commanded, rather than to construct a new work at such small distances above it as either the 100 yards mentioned by Capt. Puyres, or the 400 yards specified

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specified by Major Fischer.

3. With regard to the last paragraph of the Engineer's letter, the Govt. think that the banks referred to require to be examined carefully, one by one, with a view to ascertain whether they can be placed in an efficient state at an outlay which would be not out of proportion to the cultivation and revenue under them. Thus in submitting the estimates the Aiyacut area and apportionment, the average cultivation and collections and the outlay on repairs should be shown for the last 20 or 25 years in quinquennial periods, and it will then be seen whether,

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time past, or to other causes,
it will be proper to make
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restoration of these Tanks
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These remarks will indicate
sufficiently the principle
on which irrigation works
of this description should be
dealt with, and it is only
necessary to add that the
estimates should provide
for all reasonable require-
ments as regards escapes,
sluices, &c., and that the
opinion of the Collector
should be obtained, as
to whether, in each par-
ticular case, it would
be

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be advisable to make the
outlay which may be
found to be necessary,
and, if not, as to the course
to be adopted.

W. B.

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To Mr. Secy., 1 "D. S."
21. Rev. Secy.
Dec 23/1/70.

Ce 5378

Gobt. of 1870 Madras.

PUBLIC WORKS.

To
The Superintending Eng^r
1st Revision

Dated

Recd.

End.

G. O., 27th January 1870, No. 341

Nos. 658-659

Byana Calingulala Paper
order on the letter from
the Supt. Eng^r of the 1st Rev.
Regarding the Supt. of the
Byana Calingulala in the
forenoon 8th -