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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 38	Press
72-73	Mix.
Dated 6	18

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
6th January 1868*

No. 72. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Department Public Works, dated Madras, 16th December 1867, No. 120 :—

1. I have the honor to submit for the information of Government a letter, No. 378, of the 3rd instant, from the Agent and Manager, Madras Irrigation and Canal Company, transmitting copies of two Resolutions of the Board of Directors, dated 23rd October last.

2. In the first of these Resolutions the Board record their opinion that, "the requirement still insisted upon by the Government that an accurate measurement of the actual work done should be made in every division previous to fresh estimates being considered and sanctioned" * * * "is calculated to interfere with and prevent their being able to complete the works within the period stated in the supplemental Contract," and they attribute to this requirement "the very serious delay which is continued to be occasioned in carrying on constructive operations."

3. I have no information as to the circumstances which led to the passing of this resolution. Several estimates for sections, or divisions, have been received during the last six months, and in each case the accurate measurements referred to by the Board have been wanting or, if not wanting, the explanations regarding differences and apparent excess of work have been incomplete. In no case, however, has sanction been refused on this account, though, where it appeared to be necessary, the final passing of expenditure has been made to depend upon satisfactory explanation of the difference (if any) between work paid for and that ascertained to have been done, on the measurements of the works after completion being given. It is evident that a future measurement to be made after the works are finished cannot delay their progress.

4. I subjoin a list of the principal estimates received or disposed of since the 1st June last :—

	When received	When sent to Government.	Government Order
Revised estimates for earth-works of the 7th section ...	1st March 1866.	Delayed for want of information, 10th June 1867.	2nd July 1867, No. 1,954.
Plans and estimates for excavating the bed of the stream under the Ullur aqueduct ...	1st Aug. 1867	12th Aug. "	23rd Aug. 1867, No. 2,586
Supplemental estimate for earth-works and masonry of the 9th section ...	22nd " "	28th " "	10th Sept. 1867, No. 2,783.
Plans and estimates for masonry works of the 5th section ...	31st " "	6th Sept. "	19th Sept. 1867, No. 2,903.
Revised estimates for earth-work and masonry of the 2nd section ...	16th Sept. "	23rd " "	15th Oct. 1867, No. 3,193.
Revised estimates for masonry works of the 7th section ...	23rd " "	15th Oct. "	22nd Nov. 1867, No. 3,611.
Plans and estimates of the 10th section ...	20th Nov. "	Under examination.	

Of these the only one not wholly sanctioned is that for the masonry works of the 7th section. This estimate could not be fully sanctioned, owing to the necessity for the designs of some of the works included in it being reconsidered, but permis-

*Proceedings of the Madras Government, Public Works Department,
6th January 1868.*

sion was given for the prosecution of every work which was likely to be efficient with or without certain modifications which, in some cases, appeared likely to be advantageous.

5. It is possible that the submission of estimates by the Chief Engineer has been delayed by the difficulty which has been experienced in finding out what work has been done, in consequence of the incompleteness or incorrectness of the records. If so, though the delay is not the less to be regretted, it is clearly not due to the action of the Government, but to the default of the Company's Officers. Indeed, the Government in their Order of the 25th May last, No. 1,582, desired that all estimates which might be under preparation should be submitted as soon as possible. Perhaps the Chief Engineer has, however, thought it necessary to delay forwarding estimates until he could report fully upon them, and in that case I would suggest that it would be the better plan to send in at once any estimates which may be ready, so far as work remaining to be done is concerned, with such information regarding discrepancies as may have been already obtained; and then whatever expenditure may be unaccounted for can be retrenched pending the submission of explanations, which can be furnished whenever the Chief Engineer may be able to obtain the necessary data for a final report.

6. In the second of the resolutions the Board express their intention of providing a staff of Engineers capable of completing the works in due time, and wish the Agent and Chief Engineer to carry out such measures as may appear necessary, and report to the Board how many more Engineers, in addition to those already engaged, will be required. In another letter* the Agent reports the arrival of five Engineers, and this letter I have submitted separately for the information of Government.

* No. 379, 3rd instant.

From the Agent and Manager of the Madras Irrigation and Canal Company, to the Consulting Engineer for the Madras Irrigation and Canal Company, dated Madras, 3rd December 1867, No. 378.

I have the honor to transmit copies of the Board's Resolutions, dated 23rd October 1867 on the subject of the measurement of work, and the sufficiency of the staff of Engineers for the completion of the works.

The Madras Irrigation and Canal Company.

At a Meeting of the Board of Directors of this Company, held at the Offices, 8 and 9, Queen Street Place, London, on Wednesday, 23rd October 1867, it was unanimously resolved —

The Board regard, with great regret, the very serious delay which is continued to be occasioned in carrying on constructive operations by the requirement still insisted on by the Government, that an accurate measurement of the actual work done should be made in every division previous to fresh estimates for the completion of the works being considered and sanctioned. They observe, with thanks, that advances have been allowed in order that the works may be rendered more easy of measurement, but that the Chief Engineer considers that availing of the assistance under the conditions on which it is granted will involve more delay than proceeding with the measurement of the work in its existing condition. The Board appreciate the desire manifested by the Chief Engineer to comply with the wish of the Government at the earliest possible date, and which they cordially approve of, but the delay thus occasioned is of so serious a character, that they feel it to be their duty to record their opinion that it is calculated to interfere with and prevent them being able to complete the works within the period stated in the supplemental Contract, and this is which they could not and did not anticipate when that Contract was entered into.

*Proceedings of the Madras Government, Public Works Department,
6th January 1868.*

The Madras Irrigation and Canal Company.

At a Meeting of the Board of Directors of this Company, held at the Offices, 8 and 9, Queen Street Place, London, on Wednesday, 23rd October 1867, it was unanimously resolved —

That with reference to the report now read from the Chief Engineer, the Board desire to express their anxiety to provide the necessary staff of Engineers to complete the works in due time, and they will be glad to hear at the earliest possible date how many more Engineers, in addition to those who have already been engaged, are required in order to make the establishment thoroughly efficient.

The Board attach great importance to such an arrangement of the staff as may not impose upon any Engineer more work than he can perform with perfect efficiency, and without unnecessary delay. For this purpose they regard it as very essential that the divisions should be such as the Superintending Officer can with ease visit, when required, at every point, and it appears to them that they should in no case exceed a length of twenty to twenty-five miles. On this and every other point, bearing upon the progress of operations, the Board expect that the Chief Engineer and the Manager will jointly carry out such measures as they may consider necessary in the interests of the Company under their existing contract, of course advising the Board in due course of what they may determine upon in reference to those matters for the information of the Directors.

No. 73.

ORDER THEREON, 6th January 1868, No. 38.

IRRIGATION, No. 4.

Recorded, with reference to the papers noted in the margin.

G. O. No. 1,843, 26th June 1867.
Despatch to Home Govt., No. 28, 25th do.
G. O. No. 3,056, 2nd October 1867.

(True Extract.)

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

To the Consulting Engineer for Irrigation and Canal Company.
do. do. do.

Exd. S. T. Augustin.

Madras Inspection & C. Co.
Madras 3^d Decr 1877

No 378
From.

The Agent & Manager
M. D. & C. Co.

To.
The Consulting Engineer
M. D. & C. Co.

Sir,
I have the honor to transmit
copies of the Board's Resolutions dated
23rd October 1877 on the subject of
the measurement of works, & the
sufficiency of the Staff of Engineers for
the completion of the works.

I have the honor to be
Sir,

Yours most truly

J. H. H. Nelson

Agent & Manager

The Roches Impairment Co

At a meeting of the Board of Directors of this Company held at the offices 809 Queen Street Place London on Wednesday 23rd Oct 1867 it was unanimously Resolved.

The Board regard with great regret the very serious delay which is continued to be occasioned in carrying on constructional operations by the requirement still insisted on by the Government that an accurate measurement of the actual work done should be made in every three or four previous to fresh estimates for the completion of the works being considered & sanctioned they observe with thanks that advances have been allowed in order that the work may be

be

be rendered more easy of
measurement, but that the Chief
Engineers considers that availing
of the assistance under the con-
ditions in which it is granted
will involve more delay than
proceeding with the measure-
ment of the work in its existing
condition. The Board appreciate
the desire manifested by the
Chief Engineers to comply with
the wish of the Government at
the earliest possible date, & which
they cordially approve of but
the delay thus occasioned
is of so serious a character
that they feel it to be their
duty to record their opinion
that it is calculated to interfere
with and prevent their being
able to complete the works
within the period stated in
the

the Supplemental Contract,
and this is a delay which they
could not & did not anticipate
when that Contract was entered
into.

The Madras Irrigation & Canal Company

At a meeting of the Board of Directors of this Company held at the Office 8 & 9 Queen Street Place London on Wednesday 23rd Oct. 1867 it was unanimously Resolved

That with reference to the Report now read from the Chief Engineer, the Board desire to express their anxiety to provide the necessary Staff of Engineers to complete the works in due time, and they will be glad to hear at the earliest possible date how many more Engineers in addition to those who have already been engaged are required in order to make the establishment thoroughly efficient.

The Board attach great importance to such an arrangement of the Staff as may not

not impose upon any Indians
more work than he can per-
form with perfect efficiency
and without unnecessary
delay. For this purpose they
regard it as very essential
that the divisions should be
such as the Superintending
Officer can with ease visit
when required, at every point,
and it appears to them that
they should in no case exceed
a length of 20 to 25 miles. On
this and every other point,
bearing upon the progress of
operations the Board expect
that the Chief Engineer and the
Managers will jointly carry
out such measures as they
may consider necessary
in the interests of the Company
under their existing Contract,
of course

of course advising the Board
in due course of what they
may determine upon in
reference to those matters
for the information of the Director

True Copies
W. Marshall Newcomb
Agent & Manager

Consulting Engineer's Office
Irrigation Canal Company
Madras, 16th Decr/07.

N^o 120.

From,
Captain, J. Mullins, R.E.
Consulting Engineer for I.C.C.

To,
The Secretary to Government
Department of Pub. Works.

Sir,

I have the honor to submit for the information of Government a letter, N^o 378 of the 3rd instant from the Agent and Manager Madras Irrigation and Canal Company transmitting copies of two Resolutions of the Board of Directors dated 23rd October last.

2. In the first of these Resolutions the Board record their opinion that "the requirement still insisted upon by the Government that an accurate measurement of the actual work done should be made in every division previous to fresh estimates being considered and sanctioned" x x x "is calculated to interfere with and prevent their being able to complete the works within the period stated in the Supplemental Contract," and they attribute to this requirement "the very serious delay which is continued to be occasioned in carrying on constructive operations."

3.

I have

N^o 378

Decr.

17/11/99/07

The Agent and Manager

J. Mullins

To

The Consulting Engineer

J. Mullins

Dated 13th Decr/07

16th Decr/07

Transmit copies of the Board's Resolutions

on the subject of measure-
ment of work & the
sufficiency of the staff
of Engineers for the completion
of the works

3. I have no information as to the circumstances which led to the passing of this Resolution - Several Estimates for Sections or Divisions have been received during the last six months, and in each case the accurate measurements referred to by the Board have been wanting or, if not wanting, the explanations regarding differences and apparent excess of work have been incomplete. In no case however has sanction been refused on this account though, where it appeared to be necessary, the final passing of expenditure has been made to depend upon satisfactory explanation of the difference, (if any) between work paid for and that ascertained to have been done, on the measurements of the works after completion, being given. - It is evident that a future measurement to be made after the works are finished cannot delay their progress. -

4. I subjoin a list of the principal Estimates received or disposed of since the

1st June

1st June last. V
When received. When sent to Govt. Order

Revised Estimates for Earthworks of the 7 th Section	1 st March 1866.	Delayed for want of information 10 th June/67	2 nd July 1867 12 th 1864.
Plans and Estimates for excavating the bed of the stream under the Ulster Aqueduct	1 August 1 st July/67	12 th August/67	23 rd Aug/67 11 th 2586
Supplemental Estimate for Earthworks and Masonry of the 9 th Section	22 nd Aug/67	23 rd Aug/67	10 th Sept/67 11 th 2786.
Plans and Estimates for Masonry works of the 5 th Section	31 st Aug/67	6 th Sept/67.	19 th Sept/67 11 th 2903.
Revised Estimates for Earthwork and Masonry of the 2 nd Section	16 th Sept/67	23 rd Sept/67.	15 th Oct/67 11 th 3195.
Revised Estimates for Masonry works of the 7 th Section	23 rd Sept/67	15 th Oct/67.	22 nd Nov/67 11 th 3611
Plans and Estimates of the 10 th Section	20 th Nov/67.	Under examination.	

Of these the only one not wholly sanctioned is that for the Masonry works of the 7th Section. This Estimate could not be fully sanctioned, owing to the necessity for the designs of some of the works included in it being reconsidered, but permission was given for the prosecution of every work which was likely to be efficient with or without certain modifications which, in some cases, appeared likely to be advantageous. -

5. It is possible that the submission of Estimate

Estimates by the Chief Engineer has been delayed by the difficulty which has been experienced in finding out what work has been done, in consequence of the incompleteness or incorrectness of the records. - It is though the delay is not the less to be regretted, it is clearly not due to the action of the Government, but to the default of the Company's Officers. Indeed the Government in their order of the 25th May last N^o 1582 desired that all estimates which might be under preparation should be submitted as soon as possible. - Perhaps the Chief Engineer has however thought it necessary to delay forwarding estimates until he could report fully upon them, and in that case I would suggest that it would be the better plan to send in at once any estimates which may be ready so far as work remaining to be done is concerned, with such information regarding discrepancies as may have been already obtained; and then whatever expenditure may be unaccounted for can be retrenched pending the submission of explanations, which can be furnished whenever the Chief Engineer may be able to obtain the necessary data for a final report. -

6 In the 2nd of the³ Resolutions the Board express their intention of providing a Staff of Engineers, capable of completing the works in due time, and wish the Agent and Chief Engineer to carry out such measures as may appear necessary, and report to the Board how many more Engineers, in addition to those already engaged, will be required. - In another letter the Agent reports the arrival of 5 Engineers, and this letter I have submitted separately for the information of Government. -

I have the honor to be

Sir,

Your most obedient servant,

Whitburn ^{Captain R.E.}

Consul for S.H.C. Company

12th 27th 1867 Dec 30
No 1201 Engr & Co. Albany
Jan. 1868

The following Engineers
1868.

To
the Secretary to the
A. S. E. E.

Quoted 16th
Dec 7th (December 1867)

10th 38. Engrs & Co. 1868.
File as Rule

Indicate with certain
observations letter from
the Board 1868. 1868.
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Board Resolution on
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of the work.

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Quoted 18th George
6th Jan 9 1868

(M)

to C. E. & L. Condy
2nd 1868

Sept 11/1/68

No 72-73