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

G.O. No.	680	Press
175-177		Mis.
Dated	8-3	18-11

Not to be folded or roughly handled

Read the following papers:—

No. 175. From W. G. McIVOR, Esq., Superintendent of the Government Cinchona Plantations, to the Acting Joint-Secretary to Government, dated Ootacamund, 21st January 1871, No. 170.

I HAVE the honour to request the favour of your being good enough to apply to Government for the sanction of a further grant of 500 Rupees for the formation of the escapement in connection with the Poorthy bund, as the amount sanctioned in G. O. of 10th October 1870 has been expended.

2. On the 1st of this month we got the new stream of water at work, but have met with very difficult and rocky land on which the water does not act freely, while much of the rock has to be carried out by hand labour.

3. I am now happy to be able to report that we have apparently got under the rocky stratum and into a soil which works more freely. We are now 50 feet deep, and will shortly be able to bring a still larger supply of water to work on the excavation.

No. 176. From the Acting Superintending Engineer, 7th Division, to the Chief Engineer for Irrigation and Joint-Secretary to Government, Public Works Department, dated Camp at Mangalore, 15th February 1871, No. 234.

I HAVE the honour to forward the plans and sections of Lake St. Lawrence, which you demi-officially requested Lieutenant Morant, Executive Engineer of the Neilgherries, to have prepared for you, together with a report on the subject

Five Plans.
One letter from Neilgherry Range Officer,
No. 162, of 19th December 1870.

from that Officer. I regret that I am unable to supply Lieutenant Morant with another Surveyor to continue the work as pointed out in G. O., No. 2,439, of the 10th of October 1870, every available Overseer in the division is fully engaged, and none can be spared; I would therefore suggest that a special subordinate be appointed to the Neilgherry Range, in order that the further investigations necessary may be proceeded with. I beg that you will be so good as to return the papers now submitted as soon as you have done with them.

From Lieutenant J. L. L. MORANT, R.E., Executive Engineer, Neilgherries, to the Superintending Engineer, 7th Division, dated Ootacamund, 19th December 1870, No. 162.

UNDER instructions received demi-officially from the Chief Engineer for Irrigation, I beg to submit plans and sections of the site of the proposed permanent waste weir at the Lake St. Lawrence bund, showing the progress Mr. McIvor has made in silting out the escape up to the 30th of November last.

2. I have also obtained from Mr. McIvor the details of the expenditure incurred upon the same work. Comparing these with the quantity of work done it appears that if the whole expenditure be taken into account the rate of the excavation per cubic yard will be a little over 2 Annas or 7.86 cubic yards per 1 Rupee. If the expenditure upon silting alone be considered the rate will be 8½ Pies per cubic yard or 22½ cubic yards per 1 Rupee. The total quantity of earth which will have to be excavated for the trial section (only) at the escape site down to the proposed

*Proceedings of the Madras Government, Public Works Department,
8th March 1871.*

water line of 1870 will probably be 100,000 cubic yards. This quantity at the above rates will value Rupees 12,500 and Rupees 4,427 respectively. But it is possible that as the trial section of the escapement is deepened, the excavation by silting will become more difficult and expensive owing to the fall for the water becoming lessened.

3. The cost of excavating the proposed permanent escape to its full width will perhaps come to from 25,000 to 50,000 Rupees depending upon its width, etc.

4. Upon receipt of orders to recommence the Lawrence Asylum buildings, I at once directed Mr. Hyde to cease his surveys of the Lake St. Lawrence and to take charge of the former work. Should the Government still desire to have the information called for in paragraphs 5 and 6 of their G. O., No. 2,439, of the 10th October last, it will be necessary for a Surveyor to be sent to this Range to complete what now remains to be done to the surveys, as I have no one in Ootacamund (except Mr. Hyde) who is capable of undertaking the work.

5. About one-half of the survey work is completed. A few plans other than those sent are being now prepared. But there is still a good deal of out-door work to be done.

6. A list of plans now sent is enclosed. I beg respectfully to request their return when done with.

No. 177.

ORDER THEREON, 8th March 1871, No. 680.

IRRIGATION, No. 11.

In the first of the above letters Mr. McIvor applies for an additional grant of Rupees 500 for the experimental

cutting through the saddle by which the surplus of the proposed Lake St. Lawrence would have to be carried to the permanent escape site. He states that the cutting had, at the date of his letter, reached a depth of 50 feet, that, after meeting with "very difficult and rocky lands" in the cutting, the rocky stratum had apparently been passed through, and that the soil subsequently reached worked more freely: he also mentions that from the 1st January a new stream of water had been brought to the work.

2. The papers transmitted by the Superintending Engineer refer to the work done up to the 30th November. The Executive Engineer reports that up to that time the cubical contents of the excavation amounted to 4,091 cubic yards and that, from the details of expenditure furnished to him by Mr. McIvor, it appeared that the cost of the cutting, inclusive of all charges, was at the rate of 7.86 cubic yards per rupee, and that of the excavation alone 22½ cubic yards a rupee: the former rate includes probably the cost of bringing the silting streams to the work, and this would not have to be repeated, so that perhaps 20 cubic yards a rupee would be about the fair cost of the work hitherto, inclusive of its share of the contingent expenses. The greatest depth reached on the 30th November was 39 feet. It is explained that, since the Lawrence Asylum work has been recommenced, Serjeant Hyde has necessarily been recalled from the investigations on which he was engaged at the reservoir site, and the absence of information, as to the work done up to the 31st January, is thus accounted for. As however the measurement of the cutting done would occupy but a short time monthly, the Government desire that measurements of the excavation as it may stand on the 15th March may be taken and reported, with the cost, as soon as possible. In the meantime His Excellency the Governor in Council resolves to sanction from the sum of Rupees 1,000 surrendered by the Superintending Engineer of the 3rd

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8th March 1871.*

Division, from the grant for Minor New Works under Agricultural in the Cuddapah District, the sum of Rupees 500 asked for by Mr. McIvor.

3. The Government consider that it will be in every respect desirable that the collection of the information necessary for the determination of the details of this project should be completed. A good deal towards this end had been done prior to the withdrawal of Serjeant Hyde, and with a view to the services of a competent subordinate being secured to continue this work a sum of Rupees 150 from the allotment for temporary establishments will be at once placed at Colonel Farewell's disposal and the Superintending Engineer should apply immediately after the 31st March for such further funds as may be required. Some of the details will depend upon the depth to which it may be practicable to carry the cutting through the saddle, but for the present it may be assumed that 148 feet above datum will be the full tank level: it is not likely to be below this.

(True Extract.)

Major, R.E.,

Joint-Secretary to Government.

To the Acting Superintending Engineer, 7th Division.
To. W. G. McIvor, Esq.
To the Chief Engineer for Irrigation.
.. Controller of Public Works Accounts.

Exd. S. T. Augustin.

No. 234

Superintending Engrs. of
7th Division, S.H.

Camp Mangalore 15th Dec 1870

From,

Lieut. Colonel W. Farewell R.E.
As Super. Engineer, 7th Div.

To,

The Chief Engineer for Irrigation
and Joint Secretary to Govt.

D. P. S. S. S.

Madras -

Sir,

Enclosures

5 Plans
1 letter from
Mylapore Res.
Office No 102 of
19th Dec 1870 -

I have the honor to forward
the Plans & Sections of Lake St. Lawrence
which you semi-officially
requested Lieut. Morant Executive
Engineer of the Mysore to have
prepared for you together with a
report on the subject from that
officer - I regret that I am unable
to supply Lieut. Morant with
another surveyor to continue
the work as pointed out in G.O.
No 2439 of the 10th of October 1870, every
available Bureau in the Division
is fully engaged, and none can
be spared; I would therefore suggest
that a special Subordinate be
appointed to the Mysore Range
in

in order that the further investigations necessary may be proceeded with - I beg that you will be so good as to return the papers now submitted as soon as you have done with them -

I have the honor to be,
Sir,
Your most obedient servant

Wm. A. Staff
Asst. Supy. Engr. of the

89 90
No 132

Executive Engineers Office
Ottawa 19th December 1889

7A

of the Lake St. Lawrence and to take charge of the former work

PWT 871 Dept
 No. of Govt for PWT 886
 From
 The Supg Engineer
 7th Division

To, The Chief Engineer
 for Irrigation and
 Joint Secretary
 to Govt.

Dated 15th Feb 1887
 Recd: 27th Feb 1887
 No. 234

Forwarded Plans and
 sections of Lake Saint
 Lawrence and requests
 under circumstances
 stated to be appropriate
 a special subordinate
 to continue the work
 as pointed out in
 No. 680-8 dated 1/11

No 176
 628 Feb 1/11

1889
 11-12-70
 No 102

Executive Engineer's Office
 Ootacamund 19 December 1870

9A

Sir,

Lieutenant J. I. Morant R.E.
 Executive Engineer
 Sulphur.

To,

Lieutenant Colonel W. Sawvel R.E.
 Superintending Engineer
 Seventh Division.

Sir, Under instructions received semi-officially from the
 Chief Engineer for Irrigation I beg to submit Plans and
 sections of the site of the proposed permanent waste weir
 at the Lake St Lawrence Bunde, showing the progress Mr
 McIvor has made in setting out the escape up to the 30th of
 November last.

I have also obtained from Mr. McIvor the details of the
 expenditure incurred upon the same work. Comparing
 these with the quantity of work done it appears that if the
 whole expenditure be taken into account the rate of the
 excavation per Cubic Yards will be a little over two Annas
 or 7.86 Cubic Yards per one Rupee. If the expenditure upon
 setting alone be considered the rate will be 8 1/2 Pies per
 Cubic Yards or 22 1/2 Cubic Yards per one Rupee. The total
 quantity of earth which will have to be excavated for
 the trial section (only) at the escape site down to the pro-
 posed water line of 1870 will probably be 100,000 Cubic Yards.
 This quantity at the above rates will value Rs 12,500 and Rs 1427
 respectively. But it is possible that as the trial section of
 the escapement is deepened the excavation by setting will
 become more difficult and expensive owing to the fall of
 the water becoming lessened.

The cost of excavating the proposed permanent escape to the
 full width will perhaps come to from 25,000 to 50,000 Rs
 depending upon its width &c.

Upon receipt of orders to recommence the Lawrence Bunde
 Buildings I at once directed Mr. Hyde to cease his survey
 of the Lake St Lawrence, and to take charge of the former work.

Should the Government still desire to have the information called for in paras 5 and 6 of their L.O. No 2439 of the 10th October last it will be necessary for a surveyor to be sent to this Range to complete what now remains to be done to the surveys, as I have no one in Ootacamund (except Mr Hyele) who is capable of undertaking the work.

About one half of the survey work is completed. A few Plans other than those sent are being now prepared. But there is still a good deal of out door work to be done.

A list of Plans now sent is Enclosed.
I beg respectfully to request their return when done with.

I have the honor to be,
Sir,
Yours Most Obedient Servant.

J. H. M. M. M.

Private Secy.
S. M. M. M. M.

Enclosure to Mr
letter to the Chief Eng.
-man for Siria which
and Joint Secretary
to Govt D.O. No. 234
dated 15th February/71

JW 886/71

At Morant's letter No. 166
of 19th December 1870 on
submitting Plans &
Sections of the site of
the proposed perma-
nent waste water at
St. Lawrence
Barrage.

No 170

Notarandum 21st January 1871.

13A

From W. G. Mc Jannet Esq
Superintendent Govt Chinchona Plantations
Notarandum

To Major Mullins R.E.
Acting Joint Secretary to Government
Madras

Sir

I have the honor to request the favor
if your being good enough to apply to
Government for the sanction of a further
grant of Five Hundred Rupees for the
formation of the escapement in connection
with the Porcher Band as the amount sanc-
tioned on G.O. of 10th October 1870 has been
expended.

On the 1st of this month we got the
new stream of water at work but have met
with very difficult and rocky land on which
the water does not act freely, while much
of the rock has to be carried out by hand
labor.

I am now happy to be able to report
that we have apparently got under the
rocky stratum and into a soil which works
more freely. We are now 50 feet deep and
will shortly be able to bring a still larger
supply of water to work on the excavation.

I have the honor to be

Yours Most Obedient Servant

W. G. Mc Jannet
Superintendent of Govt
Chinchona Plantations

1871 March
No. 887

From
The Sup^t Govt. Chinchorro
Plantations -

Recommended
To Major Mullins R.Q.
Cdr. Govt. Secy to Govt
Minister -

Forwarded 21st Feb 1871
Recd 31st Feb 1871
Recd: 27 Feb 1871
No 170

Requests the Govt. of an
application for a further
extension of 17500 towards
formation of permanent
escapes at Paving Bmd.
Reports on progress of work

No. 680-8 March 71

No 170
28 Feb 71 A. 2nd March

Public Works Department
No. 680-8 157

Proceedings of the Matras Government
Under date the 8 March 71
Read the following

From The Sup^r Engineer J.E. No. 2343/15th February 71
From The Sup^r Govt. Chinchorro }
Plantations Otacamauro. } - 170 - 25th January 71

In the first of the
above letters Mr. Mc. Ivor ap-
plies for an additional grant
of Rs. 500 for the experimental
cutting through the saddle by
which the surplus of the pro-
posed Lake St. Lawrence
would have to be carried
to the ^{permanent} escape site. He states
that the cutting had, at the
date of his letter, reached a
depth of 50 feet, that, after
meeting with very difficult
and rocky lands in the

Cutting, the rocky stratum
had apparently been passed
through, and that the soil
subsequently reached
worked more freely. He
also mentions that from
the 1st January a new stream
of water had been brought
to the work.

The papers transmitted
by the Engineer refer to the
work done up to the 30th Nov.
The Resident Engineer reports
that up to that time the
cubical contents of the ex-
cavation amounted to
4,091 Cubic yards and that,
from the details of expendi-
ture furnished to him by
Mr. Mc Lvor, it appeared
that the cost of the cutting,

17A / 7
inclusive of all charges, was
at the rate of 7.88 Cubic yards
per Rupee, and that of the
excavation alone 22 1/2 Cubic
yards a Rupee. The former
rate includes probably the
cost of bringing the filling
streams to the work, and
this would not have to be
repeated, so that perhaps
20 Cubic yards a Rupee would
be about the fair cost of the
work hitherto, inclusive of
its share of the contingent
expenses. The greatest depth
reached on the 30th Nov. was
39 feet. It is explained that
since the Lawrence Asylum
work has been recommenced,
Sgt. Hyde has necessarily
been recalled from the in-
vestigations on which he
was engaged at the reservoir.

site; and the absence of information, as to the work done up to the 31st January, is thus accounted for. As however the measurement of the cutting done would occupy but a short time monthly, the Govt desire that measurements of the excavation as it may stand on the 15th March may be taken and reported, with the cost, as soon as possible. In the meantime His Excellency the Governor in Council resolved to sanction from the sum of Rs. 1000 surrendered by the Engineer of the 3rd Division from the grant for Minor New Works

1978
under Agricultural in the Giddapah District the sum of Rs. 500 asked for by Mr. Eor.

The Govt consider that it will be in every respect desirable that the collection of the information necessary for the determination of the details of this project should be completed. A good deal towards this end had been done prior to the withdrawal of Sergeant Hyde, and with a view to the services of a competent subordinate being secured to continue this work a sum of Rs. 100 from the allotment for temporary Rs.

Establishments will be at
once placed at fol. Farewell
disposal and the Inspr.
should apply immediately
after the 31st March for
such further funds as
may be required. Some
of the details will depend
upon the depth to which
it may be practicable to
carry the cutting through the
saddle, but for the present
it may be assumed that
148 feet above datum will
be the full bank level.
it is not likely to be below
this.

30
5

Dec. 27/71

W. H. M. L. E. S.

To Inspr. 17th Dist. with five right
H. H. M. L. E. S. Eng. S. ^{plates}
H. H. M. L. E. S. for design S.
T. H. M. L. E. S. for design S.

Despo 9/3/71
85 copies ^{of plan} retained in the office.