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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Despatches to England

Ref. G.O. No.	<u>15</u>	Press Mis.
Dated	<u>4-4-</u>	<u>1860.</u>

Not to be folded or roughly handled

PUBLIC WORKS DEPARTMENT.

No. 15 of 1860.

TO THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

RIGHT HONORABLE SIR,

We have the honor to enclose a Report dated 9th instant from Captain Rundall, our Consulting Engineer for the Madras Irrigation and Canal Company, giving cover to one addressed by the Company's Chief Engineer to their Secretary, reporting on the whole scheme of works to be undertaken by the Company as their first project, and giving a general estimate of the cost of those works.

2. It is not necessary for us to enter into the details given by the Chief Engineer; they will be found to be full and clear as to the advantages to be derived from the several works, and we need only commend his report to your consideration.

3. The scheme is comprised in four great divisions, and is described and roughly estimated for by Colonel Cotton as follows:—

1. Mári Tank and channels	Rs. 22,60,000
2. Bellary Upper Project	„ 41,52,500
3. Do. Lower do.	„ 28,89,500
4. Kurnool do. do.	„ 41,52,500
Rs. 134,54,500	

4. The first is the formation of an extensive reservoir, or lake, by a dam thrown across the Haggri river within the Mysore Territory, so as to gain the entire command of its waters, to be used partly for irrigation, and partly to keep up the navigation of the work below during the dry season. The estimate provides for all the subsidiary works such as sluices, embankments, &c., and amounts to Rupees 22,60,000.

5. This portion of the project was not included in the original scheme; but the Company's Chief Engineer now considers it to be of very great importance to the success of the remaining works, and our Consulting Engineer agrees in that opinion. We have referred this question to our Chief Engineer, as mentioned in our Despatch of this date, No. 13, and on the receipt of his report shall be prepared to give a decided opinion.

6. The second is to take off a channel from the right bank of the Tumbaddra at the Vallabapúr Anicut (in the North-West of Bellary), which is to be rebuilt or improved for the purpose; the channel to pass above the town and station of Bellary, which it will supply with water, now often so much wanted there, to cross the Haggri by an aqueduct apparently; thence to run eastwards towards Kurnool, till it falls into the main channel of the third division of the works. The Estimate includes a cutting at Nallapúr in the upper part of the channel, locks for navigation and some considerable masonry aqueducts. It amounts to Rupees 41,52,500, of which 9,00,000 is for the distribution of water.

7. The third division of the project consists of an Anicut across the Tumbaddra below the junction of the Haggri, and a channel for navigation and irrigation from thence to the Kurnool channel. The estimate for all the works comprised in this part of the project amounts to Rupees 28,89,500, and includes 9,00,000 for the distribution of water.

8. These two channels, viz., those in the second and third part of the project, will be led along the edge of the high ground, and will water the whole tract of country between them and the Tumbaddra. There is no tract of country in all Southern India more arid or more needing water than this.

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No. 15 of 1860.

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RIGHT HONORABLE SIR,

We have the honor to enclose a Report dated 9th instant from Captain Rundall, our Consulting Engineer for the Madras Irrigation and Canal Company, giving cover to one addressed by the Company's Chief Engineer to their Secretary, reporting on the whole scheme of works to be undertaken by the Company as their first project, and giving a general estimate of the cost of those works.

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3. The scheme is comprised in four great divisions, and is described and roughly estimated for by Colonel Cotton as follows:—

1. Mári Tank and channels	Rs. 22,60,000
2. Bellary Upper Project	„ 41,52,500
3. Do. Lower do.	„ 28,89,500
4. Kurnool do. do.	„ 41,52,500

Rs. 134,54,500

4. The first is the formation of an extensive reservoir, or lake, by a dam thrown across the Haggri river within the Mysore Territory, so as to gain the entire command of its waters, to be used partly for irrigation, and partly to keep up the navigation of the work below during the dry season. The estimate provides for all the subsidiary works such as sluices, embankments, &c., and amounts to Rupees 22,60,000.

5. This portion of the project was not included in the original scheme; but the Company's Chief Engineer now considers it to be of very great importance to the success of the remaining works, and our Consulting Engineer agrees in that opinion. We have referred this question to our Chief Engineer, as mentioned in our Despatch of this date, No. 13, and on the receipt of his report shall be prepared to give a decided opinion.

6. The second is to take off a channel from the right bank of the Tumbaddra at the Vallabapúr Anicut (in the North-West of Bellary), which is to be rebuilt or improved for the purpose; the channel to pass above the town and station of Bellary, which it will supply with water, now often so much wanted there, to cross the Haggri by an aqueduct apparently; thence to run eastwards towards Kurnool, till it falls into the main channel of the third division of the works. The Estimate includes a cutting at Nallapúr in the upper part of the channel, locks for navigation and some considerable masonry aqueducts. It amounts to Rupees 41,52,500, of which 9,00,000 is for the distribution of water.

7. The third division of the project consists of an Anicut across the Tumbaddra below the junction of the Haggri, and a channel for navigation and irrigation from thence to the Kurnool channel. The estimate for all the works comprised in this part of the project amounts to Rupees 28,89,500, and includes 9,00,000 for the distribution of water.

8. These two channels, viz., those in the second and third part of the project, will be led along the edge of the high ground, and will water the whole tract of country between them and the Tumbaddra. There is no tract of country in all Southern India more arid or more needing water than this.

9. The last great division contemplates the construction of an Anicut across the Tumbaddra below Kurnool; the formation of a main canal from the Anicut to turn water from the Tumbaddra into the valley of the Kundár; distribution channels to the lands of the Kundár valley; the improvement of the navigation of the Pennár and Kundár rivers; a navigation canal from the Anicut to the Krishna; and a canal from the Pennár Anicut at Nellore to the nearest point of the proposed coast canal. The Estimate amounts to Rupees 41,52,500.

10. The whole of the main channels to be suited both to navigation and irrigation, like those of the Godavery and Krishna Deltas, so as to give the extensive districts concerned the immense advantage of cheap carriage in addition to that of irrigation; and, lastly, the whole set of works to communicate with Madras by canals, so as to give those districts and a part of Cuddapah, similar cheap carriage to the Presidency. The vast importance of this, to countries heretofore cut off from access to a market for their produce by want of roads, cannot be over-estimated, whether in relation to the Revenue, or to the prosperity of those Provinces.

11. The whole of the works proposed to be undertaken are estimated to cost Rupees 134,54,500, or 34½ lacs in excess of the guaranteed capital; but more than 3½ lacs are for subsidiary works for the distribution of water over an area of 13,00,000 acres, which our Consulting Engineer says will only be required to be expended in a series of years, and after a large portion of the works have been in operation and yielding returns.

12. With the exception of the Mári Tank project, on the expediency of including which in the works to be undertaken by the Company, we have not yet decided on, as already said, we approve of the works proposed in Colonel Cotton's report, and think with Captain Rundall that they should be begun as soon as possible. That officer observes in paragraph 15 of his letter of the 9th March, that "the immediate commencement of active operations will prove an immense relief by giving the people in this year the means of purchasing food, and in the next the means of growing it."

We have the honor to be,

Right Honorable Sir,

Your most obedient humble Servants,

FORT SAINT GEORGE,
4th April 1860.

Exd. Wm. Thomas.

FORT SAINT GEORGE.
PUBLIC WORKS DEPARTMENT.

Letter to the Right Honorable
the Secretary of State for India,
Dated 4th April,
No. 15 of 1860.

Forwarding a report from Captain Rundall, Consult-
ing Engineer for the Madras Irrigation and Canal
Company, on the whole scheme of works to be
undertaken by the Company as their first project.

P.P.D.
N. 15 of 1860

To The Right Honorable the
Secretary of State
for India

Right Honorable Sir,

Received 4th April 1860
N. 15

We have the
honor to enclose a report
dated 9th instant from
Captain Rundall, our
Consulting Engineer
for the Madras Irriga-
-tion and Canal
Company; giving cover
to one addressed by the
Company's Chief
Engineer to their
Secretary, reporting
on the whole scheme

of works to be undertaken by the Company as their first project, and giving a general estimate of the cost of those works.

2. It is not necessary for us to enter into the details given by the Chief Eng^r, they will be found full and clear as to the advantages to be derived from the several works, and we need only commend his report to your consideration.

3. The scheme is comprised in four great divisions & is described & roughly estimated for by Col. Cotton as follows,

1. Mari Tank & channels—	22,60,000
2. Bellary Upper Project—	11,52,500
3. do Lower—do—	28,87,500
4. Hurrah—do—do—	11,52,500
	<u>74,52,500</u>

The

4. The first is the formation of an extensive reservoir or lake by a dam thrown across the Hagga river within the Mysore Territory, so as to gain the entire command of its waters, to be used partly for irrigation, and partly to keep up the navigation of the river here below during the dry season. The estimate provides for all the subsidiary works such as sluices, embankments &c., and amounts to Rs 22,60,000.

5. This portion of the project was not included in the original scheme, but the Company's Chief Engineer now considers it to be of very great importance to the success of the remaining works, and our Consulting Eng^r agrees in that opinion. We have referred this question to our Chief Eng^r, ~~and~~ on the receipt of his report shall be prepared to give a decided opinion.

6. The second is to take off a Channel from the right bank of the Tungabhadra at the Tallahapur Amicut (in the North West of Bellary) which is to be rebuilt or improved for the purpose, the Channel to pass above the town and station of Bellary.

as mentioned in our Despatch of this date, &c.

Bellary which it will supply with water now often so much wanted there, to cross the Hoagri by an aqueduct apparently, thence to run eastwards towards Harnul, till it falls into the main channel of the 2nd division of the works. The estimate includes a cutting at Mallapur in the upper part of the Channel, locks for navigation and some considerable masonry aqueducts. It amounts to Rupees 4,122,500 of which 9,00,000 is for the distribution of water.

7. The third division of the Project consists of an Amicut across the Gundadden below the Junction

Junction of the Hoagri and a channel for navigation and irrigation from thence to the Harnul channel. The estimate for all the works comprised in this part of the project amounts to Rs 28,89,500 and includes 90,000 for the distribution of water.

8. These two channels viz those in the 2nd & 3rd part of the Project, will be led along the edge of the high ground, and will water the whole tract of country between them & the Gundadda. There is no tract of country in all Southern India more arid or more needing water than this.

9. The last great division contemplates the construction of an Amicut.

Amnicut across the Terni.
Ladder below Kurnool.
The formation of a main
canal from the Amnicut
to turn water from the
Tumbaddra into the val-
ley of the Koondan.
distribution channels
to the lands of the Koondan
valley. The improve-
ment of the navigation
of the Pennar & Koondan
rivers, a navigation canal
from the Amnicut to the
Krishna, & a canal from
the Pennar Amnicut to the
nearest point of the proposed
coast Canal. The estimate
amounts to Rs 41,52,500.
10. The whole of the main
channels to be suited both
to navigation & irrigation,
like those of the Godavari
and Krishna deltas, so as
to give the extensive
districts concerned the
immense advantage of

Koondan

Krishna

Godavari

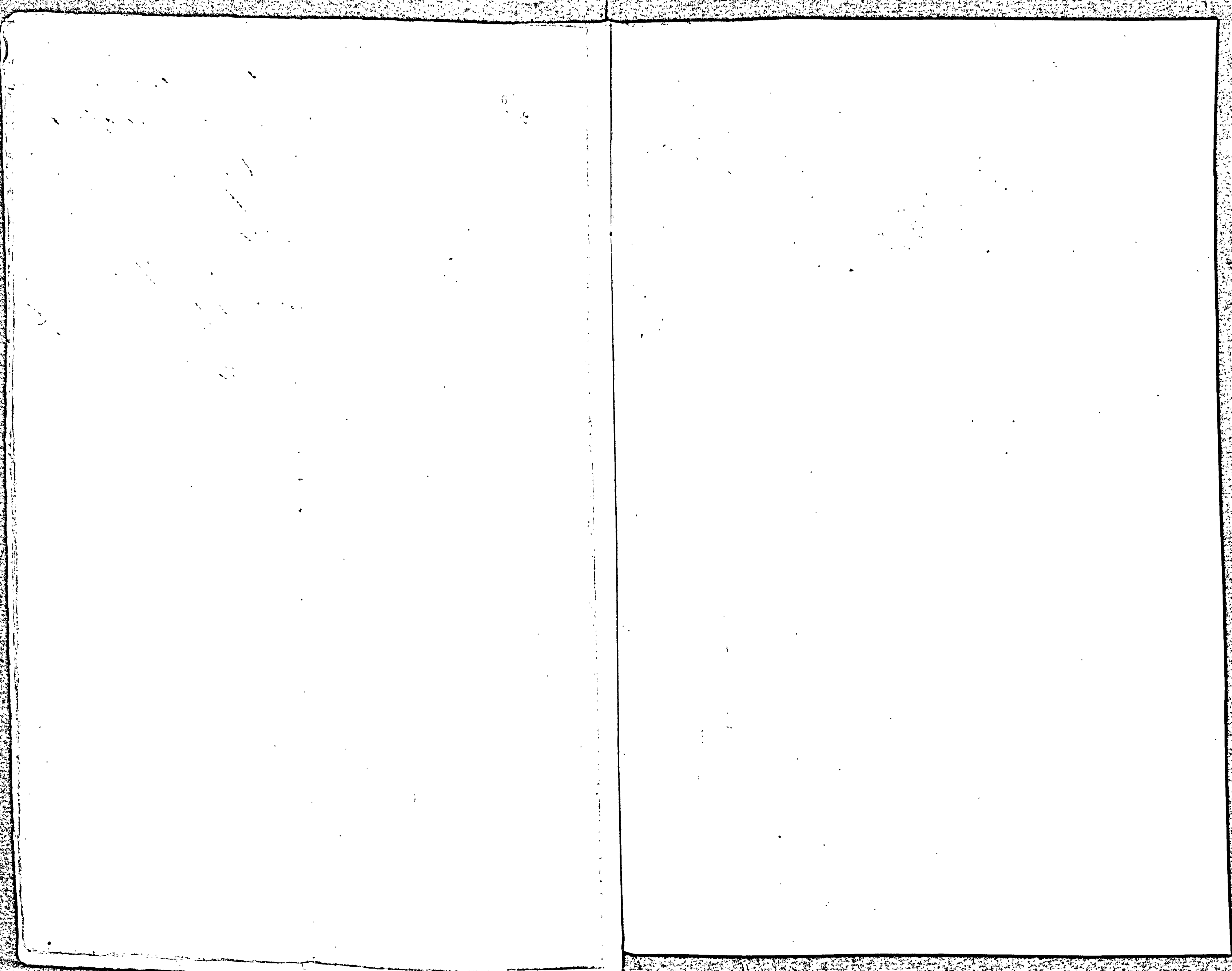
11. Cheap carriage, in addi-
tion to that of irrigation,
and lastly the whole set
of works to communicate
with Madras by canals, so
as to give those districts
and ^{in part} ~~the intermediate Pro-~~
~~vinces~~ of Madras, similar
cheap carriage to the Pre-
sidency. The vast impor-
tance of this, to countries
heretofore cut off from
access to a market for
their produce by want of
roads cannot be overesti-
mated, whether in relation
to the Revenue, or to the pros-
perity of those Provinces.
11. The whole of the
works proposed to be
undertaken are estimated
to cost Rs 134,54,500, or
34 1/2 ^{lacks} ~~lacks~~ ⁱⁿ ~~in~~
excess of the guaranteed
capital; but more than
34 lacks are for ~~in~~ ⁱⁿ
subsidiary works for
the distribution of
water

water over an area of
13,000 acres which our
Consulting Eng^r says
will only be required
to be expended in a series
of years, and after a large
portion of the works have
been in operation and
yielding returns. 12.
With the inception of the
Marine Bank project, the
expediency of including
which in the works to
be undertaken by the
Company, we have not
yet decided on, we
approve of the works
proposed in Col. Cotton's
report and thank Mr.
Captain Pundall
that they should be
begun as soon
as possible. That
officer observes in
para 15 of his letter
of the 9 March that
the

13
"The immediate commence-
ment of active operations
will prove an immense
relief by giving the
people in this year
the means of pur-
chasing food, and in the
next the means of
growing it

St George
April 1860.

JSB



J.H.B.

N^o 15.

Letter to the Right Honble
the Secretary of State
for India
Dated 4th April 1860.

Recd & Copy of the Letter
the Secretary of State
14th April 1860

Copy to the Govt of India 18th April
1860
N^o 7

Forwarding a report
from Captain Tinsall
Consulting Engineer for the
Madras S & C Company
on the whole scheme of
works to be undertaken by
the Company as their first
project.

Reply received 17th June 1860

C24 March 1860