

2322

M.R.O. 1-77,000-3-5-37.

(1) Number of pages 25
(2) Date of repair 8-2-43
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Relation DEPARTMENT.

G.O. No.	Press Mis.
Dated	18 6 1943

Not to be folded or roughly handled

2872

M.R.O. 1-77,006-3-6-37.

(1) Number of pages 28

(2) Date of repair 8-2-43

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works

DEPARTMENT.

G.O. No. <u>2872</u>	Press Mis.
Dated <u>5-1-43</u>	18 <u>67</u>

Not to be folded or roughly handled

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers :—

Read the following Endorsement of the Deputy Chief Engineer, Southern Circle, dated 19th September 1862, No. 100.

Read the following Proceedings of the Board of Revenue, dated 4th September 1862, No. 5,905.

Read the following letter from Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern Circle, to the PRESIDENT AND MEMBERS of the Board of Revenue, dated 29th August 1862, No. 85.

SIR,

• No. 83, dated 27th August 1862.

1 Copy of letter as above.

1. I have the honor to submit for the information of your Board a copy of a letter* which I have addressed to Government upon the subject of an enterprize suggested by the late District Engineer of Madura Captain Ryves (and, as the present Collector of that District), for diverting the upper main stream and affluents of the "Perryaur" into an artificial channel by which it is projected to convey their waters into the rivers "Sorooliyaur" and "Vigay" of Madura. Feeling assured of the support of your Board in a measure which involved only a preliminary professional investigation of this important scheme, I considered it inexpedient to loose time in awaiting its expression; fearing that the opportunity which now presents itself of securing for this duty the services of a highly qualified Officer, might be lost by delay.

2. I trust your Board will also see fit to approve of the suggestion, for Captain Chambers' subsequent employment in examining and reporting upon the Canalage of the Travancore and Malabar Coast.

ENCLOSURE No. 1.

From Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Department Public Works, dated 27th August 1862, No. 83.
Revenue Irrigation.
SIR,

1. I beg leave to lay before Government the following statement relating to a project which has been brought under consideration by one of the District Officers of the Southern Circle.

2. The mountainous range which constitutes the chief portion of the Travancore territory, and which between the parallels 8' and 10' north latitude from the western boundary of the province of Madura is marked by a peculiar geological feature, that of having its anticlinal axis removed from the centre to its extreme eastern verge; the consequence of which is that the inclination of its entire surface is uniformly to the west carrying the drainage of this rain favored region all but wastefully into the Indian ocean by the lagoons bordering the Cochin and Chetwye coast, and depriving the rivers of Madura of all affluents or feeders, but those which come down the steep slopes of the mural precipices which on the western frontier rise abruptly to the height of 12 and 1,500 feet above their base. The one territory is thus superabundantly furnished with an element which it (comparatively) little needs, whilst the other, exposed to the full arid influence of a tropical climate, and with a large population to feed and employ, is left dependent on the precarious supply due to periodical rain-fall drained from a surface more or less absorbing.

7. Subsequently however to the data of his first report, Captain Ryves appears to have had it in his power to extend the range of his investigations very considerably, and the result, as set forth in his letter of the 4th March 1862, is to amplify the scope of the project to such a degree as to induce him unhesitatingly to pronounce it calculated, under full development, to yield a return in revenue of three lacs upon an expenditure of seven.

8. In the case of some Officers of the Scientific Department this sudden expansion of idea upon an apparently cursory review of identical data might give rise to doubt and misgiving as to the correctness of the premises assumed. But the reverse obtains in the instance of the experienced Officer to whom I have alluded, and whose reputation as an intelligent, practical, and accurate observer is so well founded as to warrant me in thus earnestly pressing his project upon the attention of Government as one of the most, if not the most important and promising, which is now under investigation in this Circle.

9. Should Government be induced to adopt this view of the question, I trust they will be pleased to grant sanction out of the Reserve Fund for an expenditure of Rupees 800 to cover the contingent cost of the necessary preliminary measurements and explorations, and also that they will allow the thorough investigation of every detail of the scheme, including especially the extent and nature of the drainage basin by which the river to be operated upon is fed, to be entrusted to an experienced and competent Engineer Officer, at whose hands it may be assured of full justice, and by whose decision, whether favorable or adverse, Government may with confidence abide.

10. The services of precisely such an Officer, I may take occasion to remark, appear to be just now fortunately available in the person of Captain Chambers, R. E.; and if Government should see fit to charge him with the duty, I feel confident his judgment as to the feasibility or otherwise of this apparently most promising scheme, would be freely accepted by all connected with the Scientific Department of the administration, as that of one in every way competent to the task of arriving at a just and sound conclusion.

11. The two ensuing months are peculiarly favorable for pursuing the necessary investigations as the "Perryaur" swollen by the south-west monsoon will be in full volume; the Ryots of the Cumbum valley are so anxious to see the project for diverting its waters eastward carried out that they will afford the most ready aid to the exploring party, and thus if operations are at once commenced there is every reason to hope that the details of the project (if approved) may be sufficiently mastered by November to admit of its introduction into the programme of the Public Works Budget for the ensuing year.

12. It may not be considered out of place to point out here that if Captain Chambers should be employed on the duty I have described his presence in that part of the country (Travancore) would afford a most favorable opportunity for obtaining a report upon the Cochin and Western Coast Canal system. Government are too well aware of the high reputation which this Officer enjoys as a Canal Engineer to render it necessary for me to express an opinion regarding it; but I thought I might be permitted to point out how very opportune his presence in the neighbourhood would be, looking to the known desire of Government to be in possession of a reliable opinion, and report upon the means the best calculated to connect the Port of Cochin permanently and securely with the Madras Railway.

13. A copy of this letter will be submitted to the Board of Revenue, of whose support in favor of my proposals I feel confident; but as time presses I have thought it inexpedient to delay bringing the subject before Government until I should be favored with an expression of the Board's opinion upon it. The submission of this opinion will of course follow as soon as I am in possession of it.

(True Copy.)

(Signed) J. OUCHTERLONY, Lieut.-Colonel, R. E.,
Deputy Chief Engineer, Southern Circle.

1. The Board have perused with much interest the letter which Colonel Ouchterlony has been good enough to communicate to them, and would most strongly support any proposal to examine and mature a project which, in the opinion of Captain Ryves, holds out the prospect of turning to account any portion of the waters of the Perryaur, and thus improving the supply from that most capricious and impracticable river the Vigay, for irrigation.

2. The Board are under the impression that Colonel Caldwell and Captain (now Colonel) Horsley reported on projects similar to the present one, and they recognize the difficulties that surround the question, but a well devised scheme for turning these waters would protect a large portion of the District from the periodical visits of famine.

3. It is presumed that should the present scheme prove practicable there will be no difficulty in obtaining the consent of the Travancore Sirkar to its execution, the headworks lying within that territory.

4. The Board concur in opinion with Colonel Ouchterlony as to the value that would attach to a report from Captain Chambers on the Western Coast Canal system, to the development of which they attach much importance.

(True Copies and Extract.)

(Signed) W. HUDLESTON, Secretary.

1 Revenue Board Proceedings No. 5,905,
dated 4th September 1862.

Submitted to Government with reference to the concluding paragraph (13) of letter from this Office No. 83, dated 27th August 1862, upon the subject of diverting the waters of the

"Perryaur" by a deep cutting into the Madura District.
(Signed) J. OUCHTERLONY, Lieut.-Colonel, R. E.,
Deputy Chief Engineer, Southern Circle.

Endorsement of the Deputy Chief Engineer, Southern Circle, dated 19th September 1862,
No. 101.

From W. S. HARRINGTON, Esq., First Assistant District Engineer in charge of District, to
Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern
Circle, dated Madura, 2nd September 1862, No. 551.

SIR,

1. In acknowledging the receipt of your letter No. 81, dated 23rd ultimo, I have the honor to state that copies of the correspondence regarding the Vigayaur and Perryaur project are being taken in this Office and will be forwarded as soon as completed.

2. I do not think, in reply to the first part of paragraph 2 of your letter under notice, that Lieutenant Coningham would be able to spare the requisite time for thoroughly investigating and enquiring into the project, at any rate not while he is employed in re-examining Lieutenant Mead's trace of the Goodaloor Ghât; for he will scarcely be able to work for more than a month on account of the near approach of the north-east monsoon, and when once the bandy track is clearly traced, which Lieutenant Coningham hopes to effect by the 15th October, I think that a superior Upper Subordinate will be able to carry out the work in the first five or six months of the coming (Calendar) year. Assistant Overseer, Mr. Fox, has not yet joined, but as his place in the examination list lately promulgated proves him to be qualified as far as attainments are concerned, I had purposed recommending that he should be placed in charge of the work from January next.

3. Though Lieutenant Coningham is without doubt an able and a most hard working and energetic young Officer, perhaps the magnitude of the project requires a little more experience than he has yet had. His services, moreover, would be required in his own Range.

4. As the project was re-started by Captain Ryves I submit that the more searching enquiry into it, which is most indubitably necessary, should made by the District Engineer to whom, with the interest of his District at stake, the task could not be otherwise than most agreeable and interesting, and who I think could without prejudice to his other duties devote a clear month to a careful examination and enquiry into the project. I believe that Captain Payne would quite agree with me on this point.

From W. S. HARRINGTON, Esq., First Assistant District Engineer, in charge of District, to Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern Circle, dated Madura, 9th September 1862, No. 590.

SIR,

1. In compliance with the instructions contained in paragraph 1 of your letter No. 81, dated 23rd ultimo, I have the honor to forward herewith copies of all reports, plans, estimates and other papers bearing upon the subject of turning a tributary of the Perryaur into Sooroolyaur and thence into the Vigayaur, which preceded Captain Ryves' letter No. 1,061, dated 7th November 1861.

2. I yesterday received the Telegram sent by the Chief Engineer, directing the discontinuance of all work on the Goodaloor Ghât. I embrace the present opportunity of bringing to your notice the desirability of detaching a qualified Officer for the express purpose of making a thorough investigation into the Perryaur project, and at the same time of carrying out the Goodaloor Ghât trace, and I venture to recommend Lieutenant Mead of the Corps of Engineers for the purpose, if his services can be spared. He was with Captain Ryves during part of his examination of the old Rajacolem dam, and as you are aware, made the trace of the Goodaloor Ghât lately submitted to Government and ordered to be revised.

3. Lieutenant Mead is, as I believe, I need not state, an able and very energetic Officer and would take great pride and pleasure in carrying out the combined works. Regarding the probable expense of the Perryaur project, the increased quantity of water and the additional amount of irrigation which might be looked for, he would have the benefit of frequent conferences with the District Engineer, who from his knowledge of the District and frequent opportunities of consulting with the Collector would be able to assist Lieutenant Mead on these points.

2 Letters from the Acting District Engineer, Madura, Nos. 551 and 590, dated 2nd and 9th September 1862.

Submitted to Government in continuation of letter No. 83, dated 27th August 1862, from this Office recommending Captain Chambers for the duty which the Acting District Engineer, it will be observed, wishes Lieutenant Mead to be employed upon.

(Signed) J. OUCHTERLONY, Lieut.-Colonel, R. E.,
Deputy Chief Engineer, Southern Circle.

ORDER THEREON, 3rd October 1862, No. 2,372.

Ordered to lie over until the receipt of a reply from the Resident of Travancore to letter dated 24th September 1862, No. 2,283.

(True Extract.)

Colonel, R. E.,

Secretary to Government.

To the Deputy Chief Engineer, Southern Circle.

Exd. S. T. Augustin.

No. 5,905.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 4th September 1862.
Read the following letter from Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern Circle, to the PRESIDENT AND MEMBERS of the Board of Revenue, dated 29th August 1862, No. 85:—

* No. 83, dated 27th August 1862. Board a copy of a letter* which I have addressed to Government upon the subject of an enterprize suggested by the late District Engineer of Madura, Captain Ryves (and, as I have been given to understand, warmly encouraged by the present Collector of that District), for diverting the upper main stream and affluents of the "Perryaur" into an artificial channel by which it is projected to convey their waters into the rivers "Soorooliyaur" and "Vigay" of Madura. Feeling assured of the support of your Board in a measure which involved only a preliminary professional investigation of this important scheme, I considered it inexpedient to lose time in awaiting its expression; fearing that the opportunity which now presents itself of securing for this duty the services of a highly qualified Officer, might be lost by delay.

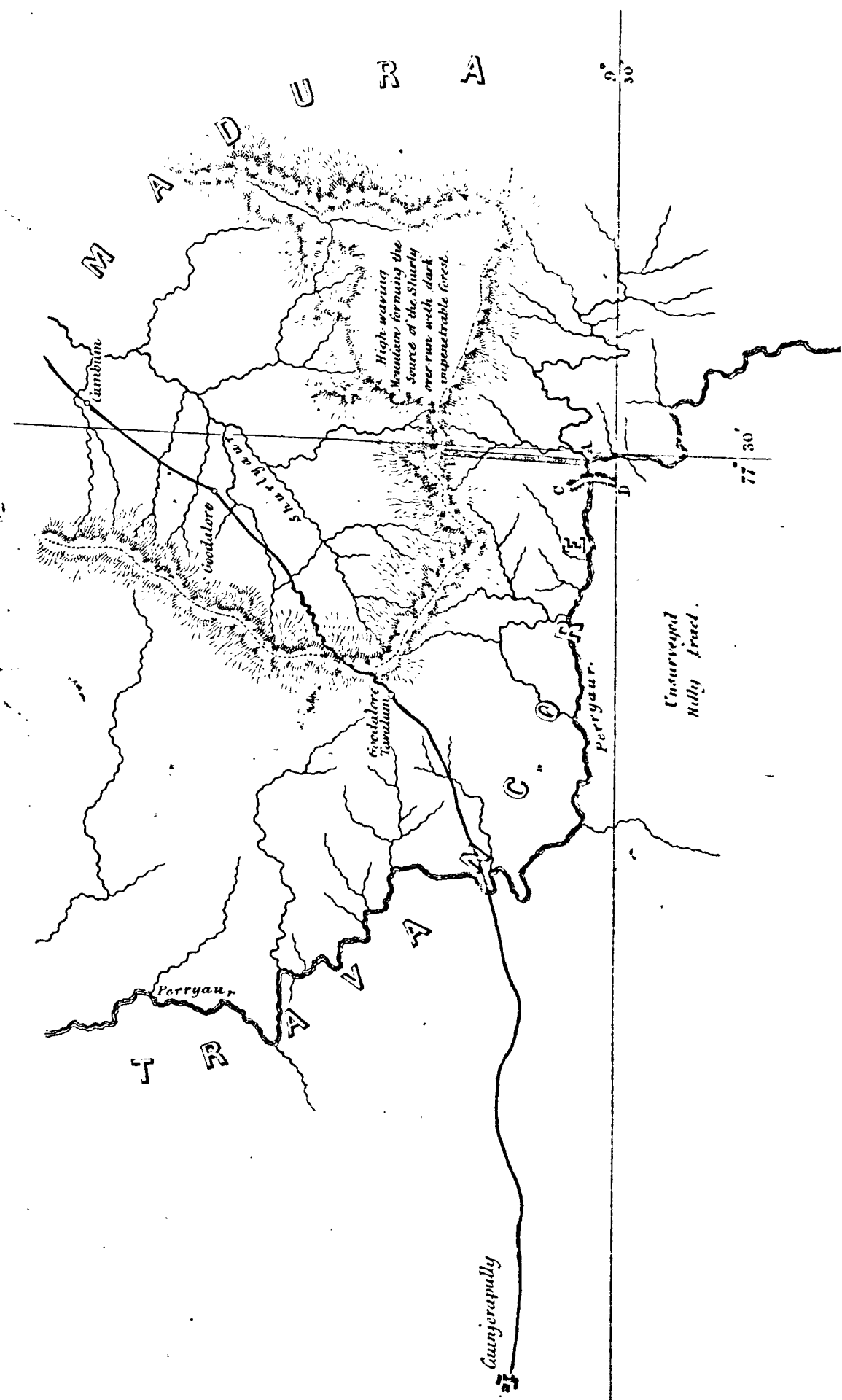
2. I trust your Board will also see fit to approve of the suggestion, for Captain Chambers' subsequent employment in examining and reporting upon the Canals of the Travancore and Malabar Coast.

ENCLOSURE No. 1.

From Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, D. P. W., dated 27th August 1862, No. 83.
Revenue Irrigation.

1. I beg leave to lay before Government the following statement relating to a project which has been brought under consideration by one of the District Officers of the Southern Circle.

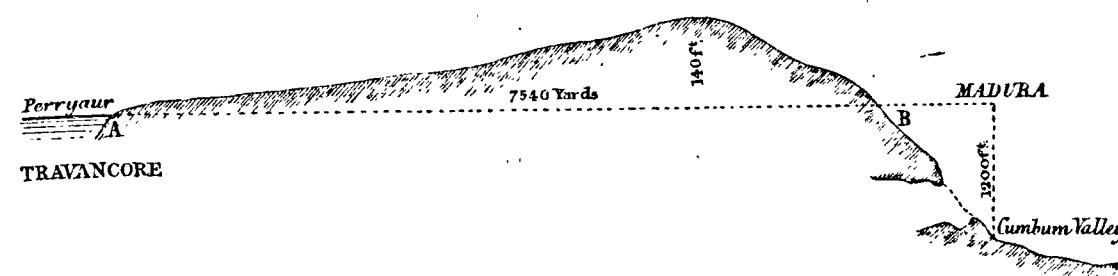
2. The mountainous range which constitutes the chief portion of the Travancore territory, and which between the parallels 8' and 10' north latitude from the western boundary of the province of Madura is marked by a peculiar geological feature, that of having its anticlinal axis removed from the centre to its extreme eastern verge; the consequence of which is that the inclination of its entire surface is uniformly to the west carrying the drainage of this rain favored region all but wastefully into the Indian ocean by the lagoons bordering the Cochin and Chetwye coast, and depriving the rivers of Madura of all affluents or feeders, but those which come down the steep slopes of the mural precipices which on the western frontier rise abruptly to the height of 12 and 1,500 feet above their base. The one territory is thus superabundantly furnished with an element which it (comparatively) little needs, whilst the other, exposed to the full arid influence of a tropical climate, and with a large population to feed and employ, is left dependent on the precarious supply due to periodical rain-fall drained from a surface more or less absorbing.



3. To divert therefore any portion of the plenteous Hill waters into the streams which flow through the adjacent champaign country becomes a consideration of the utmost importance both to the well-being of the population, and to the maintenance and enhancement of the revenue, and it is one which has long ere this attracted the attention not only of Engineers in the service of the British Government, but of native projectors of a past era as the still existing remains of dams and channels constructed by Indian artificers fully attest.

4. In 1850 or 1851 Colonel (then Captain) Faber brought forward a project in connection with a series of ancient works such as I have alluded to; but his proposal does not appear to have been favorably received, and it has been left for Captain Ryves, the late District Engineer of Madura, ten years later to mature it, or at least to verge it to maturity upon a more extended and comprehensive scale.

5. In the diagram* which I have appended for facility of reference, and * Preceding page- which represents a section of Atlas Sheet No. 62, it will be seen that the parallel $9^{\circ}30'$, and the perpendicular $77^{\circ}20'$ intersect at a point (A) on the course of the river "Perryaur," which rising in a wild (and hitherto unsurveyed) portion of the Travancore Hills and becoming already a considerable stream at the point indicated, traverses their entire extent by a tortuous course fully 170 miles in length fed by innumerable affluents until it reaches the sea. Now Captain Ryves' observations have established, to his conviction, that if the waters of the "Perryaur" were restrained at A by a dam C D 50 or 60 feet in height, they could be let off into the adjacent or Cumbum valley by a channel A B which would not involve, at the deepest point of the intervening saddle a cutting exceeding 140 feet perpendicular excavation, while the entire length would not be beyond $4\frac{1}{2}$ miles as will be seen by the following rough section:—



6. The two letters herewith submitted will show Government exactly how the question at present stands; and their perusal will, I think, lead to the same conclusion as that at which I have arrived, viz., that the project they illustrate is one, not only of very great professional interest, but fraught with promise of a very high order. It is evident that when the first of those letters, dated 7th November 1861 was written, Captain Ryves had enjoyed but limited opportunity for investigating the features of the country as well as the meteorological phenomena by which his scheme must naturally be affected, and he therefore prudently limited his expectations of return to a revenue of 25 per cent to accrue from an expenditure of about three-quarters of a lac; that at the same time he earnestly presses the scheme upon public notice not alone upon the ground of this by no means inconsiderable financial result, but on account of the peculiar value which an addition to the "Soroolyaur" and "Vigay" would possess at the period of the year when the supply of the Hill stream (the Perryaur) fed by the south-west rains, would be most fully available, viz., the critical season of transplantation of the rice plants when a full modicum of water is indispensably needed.

7. Subsequently however to the data of his first report, Captain Ryves appears to have had it in his power to extend the range of his investigations very considerably, and the result, as set forth in his letter of the 4th March 1862, is to amplify the scope of the project to such a degree as to induce him unhesitatingly to pronounce it calculated, under full development, to yield a return in revenue of three lacs upon an expenditure of seven.

8. In the case of some Officers of the Scientific Department this sudden expansion of idea upon an apparently cursory review of identical data might give rise to doubt and misgiving as to the correctness of the premises assumed. But the reverse obtains in the instance of the experienced Officer to whom I have alluded, and whose reputation as an intelligent, practical, and accurate observer is so well founded as to warrant me in thus earnestly pressing his project upon the attention of Government as one of the most, if not the most important and promising, which is now under investigation in this Circle.

9. Should Government be induced to adopt this view of the question, I trust they will be pleased to grant sanction out of the Reserve Fund for an expenditure of Rupees 800 to cover the contingent cost of the necessary preliminary measurements and explorations, and also that they will allow the thorough investigation of every detail of the scheme, including especially the extent and nature of the drainage basin by which the river to be operated upon is fed, to be entrusted to an experienced and competent Engineer Officer, at whose hands it may be assured of full justice, and by whose decision, whether favorable or adverse, Government may with confidence abide.

10. The services of precisely such an Officer, I may take occasion to remark, appear to be just now fortunately available in the person of Captain Chambers, R. E.; and if Government should see fit to charge him with the duty, I feel confident his judgment as to the feasibility or otherwise of this apparently most promising scheme, would be freely accepted by all connected with the Scientific Department of the administration, as that of one in every way competent to the task of arriving at a just and sound conclusion.

11. The two ensuing months are peculiarly favorable for pursuing the necessary investigations as the "Perryaur" swollen by the south-west monsoon will be in full volume; the Ryots of the Cumbum valley are so anxious to see the project for diverting its waters eastward carried out that they will afford the most ready aid to the exploring party, and thus if operations are at once commenced there is every reason to hope that the details of the project (if approved) may be sufficiently mastered by November to admit of its introduction into the programme of the Public Works Budget for the ensuing year.

12. It may not be considered out of place to point out here that if Captain Chambers should be employed on the duty I have described his presence in that part of the country (Travancore) would afford a most favorable opportunity for obtaining a report upon the Cochin and Western Coast Canal system. Government are too well aware of the high reputation which this Officer enjoys as a Canal Engineer to render it necessary for me to express an opinion regarding it; but I thought I might be permitted to point out how very opportune his presence in the neighbourhood would be, looking to the known* desire of Government to be in possession of a reliable opinion, and report upon the means the best calculated to connect the Port of Cochin permanently and securely with the Madras Railway.

13. A copy of this letter will be submitted to the Board of Revenue, of whose support in favor of my proposals I feel confident; but as time presses I have thought it inexpedient to delay bringing the subject before Government until I should be favored with an expression of the Board's opinion upon it. The submission of this opinion will of course follow as soon as I am in possession of it.

(True Copy.)

(Signed) J. OUCHTERLONY, Lt.-Col., R. E.,
Deputy Chief Engineer, Southern Circle.

* Vide Proceedings of Government,
No. 2,463, dated 31st December
1861.

1. The Board have perused with much interest the letter which Colonel Ouchterlony has been good enough to communicate to them, and would most strongly support any proposal to examine and mature a project which, in the opinion of Captain Ryves, holds out the prospect of turning to account any portion of the waters of the Periyar, and thus improving the supply from that most capricious, and impracticable river the Vigay, for irrigation.

2. The Board are under the impression that Colonel Caldwell and Captain (now Colonel) Horsley reported on projects similar to the present one, and they recognize the difficulties that surround the question, but a well devised scheme for turning these waters would protect a large portion of the District from the periodical visits of famine.

3. It is presumed that should the present scheme prove practicable there will be no difficulty in obtaining the consent of the Travancore Sirkar to its execution, the headworks lying within that territory.

4. The Board concur in opinion with Colonel Ouchterlony as to the value that would attach to a report from Captain Chambers on the Western Coast Canal system, to the development of which they attach much importance.

(True Copies and Extract.)

(Signed) W. HUDLESTON,
Secretary.

To Lieut.-Colonel J. Ouchterlony, R. E., Deputy Chief Engineer, Southern Circle.
Copy to V. H. Levinge, Esq., Collector of Madura.

Exd. J. Wright.

Southern Circle Office
 Madras 19 Sept 1862

No. 101

Submitted to Govt. in continuation
 of letter No. 83 dated 27 Aug. 62 from this
 office recommending Capt. Chambers for the
 duty which the As. District Engineer it will
 be desired wishes to be employed
 upon.

Placatory Ldpl R.S.
 By Ch. Secy. R.S.

To
 Colonel M. J. Birdwood R.S.
 Secretary to Government.

(Cheque)

Delivered 19 Sept 1862

1862 Department
 No.

PROCEEDINGS OF THE BOARD OF REVENUE

2197. 2008/62

Dated 4th September 1862.

Despatched

Received

No. 5,905.

Expressing Board's views on a letter from the
 Deputy Chief Engineer, Southern Circle, re-
 garding the project of diverting the waters of
 the Periyar into an artificial channel so as to
 join the Soroilayan and Vagay rivers in Madurai.

District Engineer Office

Memorandum 2^d September 1862

10551.

From,

W. L. Haring to Capt.

1st District Engineer in charge district.

The Deputy Chief Engineer
Southern Circle

Sir, In acknowledging the receipt of your letter of 1st inst. dated 23^d ultimo I have the honor to state that copies of the Correspondence regarding the Bigayan and Penyan Project are being taken into this office and will be forwarded as soon as completed.

2nd I do not think, in reply to the first part of para 2 of your letter under notice, that Lieut. Cunningham would be able to spare the requisite time for thoroughly investigating and enquiring into the Project, at any rate not while he is employed in re-examining Lieut. Meade's trace of the Fortification Grant; for he will scarcely be able to work for more than a month on account of the near approach of the N. P. season and when once the rainy track is clearly traced which Lieut. Cunningham hopes to effect by the 15th October I think that a superior helper subordinate will be able to carry out the work in the first five or six months of the coming (Calcutta) year. Asst. Quarter Master Fox has not yet joined in his place in the Examination but lately

24th September 1862 d. 2222-2232

W. L. Haring to Capt.
1st District Engineer in charge district.
Southern Circle

W. L. Haring to Capt.
1st District Engineer in charge district.
Southern Circle

W. L. Haring to Capt.
1st District Engineer in charge district.
Southern Circle

W. L. Haring to Capt.
1st District Engineer in charge district.
Southern Circle

10554.

W. L. Haring to Capt.
1st District Engineer in charge district.
Southern Circle

1
warranted from him the qualities as far
as attainments are concerned had proposed
recommending that he should be placed in
charge of the works from January next.

3 ——— Though Lieut. Cunningham
is without doubt an able and a most hard
working and energetic young officer, perhaps
the magnitude of the project requires a little
more experience than he has yet had. His
services moreover would be required in his
own range.

4 ——— As the Project was re-vised by
Captain Rymer I submit that the more care being
expending into it, which is most indubitably
necessary, should be made by the District Engineer
to whom, with the interest of his District and
State, the task could not be otherwise than
most agreeable and interesting and who I
think could without prejudice this District
devote a clear month to a careful examina-
tion and expending into the Project. I believe
that Captain Rymer would quite agree with me
on this point.

I have the honor to be,

Sir,
Your most obedient servant

W. Harrington.

District Engineer
in charge of District

District Engineer's Office
 Madras 1862
 W. C. Harrington Esq
 District Engineer in charge of District
 The Deputy Chief Engineer
 Coimbatore

Sir
 In compliance with the instructions
 contained in para 1 of your letter of 28th dated 23rd
 relating to the work to forward herewith copies
 of all reports, plans, Estimates and other papers
 bearing upon the subject of ~~forming~~ a tributary
 of the Peryar into the Coimbatore and thence into
 the Poyan, which preceded Captain Pynes' letter
 of 1061 dated 7th November 1861.

2 Yesterday received the Telegram sent
 by the Chief Engineer directing the discontinuance
 of all work on the Goodaloor Grant. I embrace the
 present opportunity of bringing to your notice the
 desirability of detaching a qualified officer for the
 express purpose of making a thorough investigation
 into the Peryar Project and at the same time of
 carrying out the Goodaloor Grant trace and I venture
 to recommend Lieutenant Sheel of the Corps of
 Engineers for the purpose, if his services can be
 spared. He was with Captain Pynes during
 part of his examination of the old Rajahmundry
 Dam and as you are aware, made the trace of
 the Goodaloor Grant lately submitted to Government.

To the Hon. Mr. W. C. Harrington

1st 1061
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District Engineer's Office
 Madras

District Engineer's Office
 Madras

District Engineer's Office
 Madras

regarding the 10th clause
 - about the work with
 the Peryar & Coimbatore

and ordered the revised.

3 _____ Lieut. Mead is ^{an} efficient Engineer
State, an able and very energetic officer and
would take great pride and pleasure in carrying
on the continued work. Regarding the probable
expansion of the system, I expect the increased quantity
of water and the additional amount of
irrigation which might be looked for, he would
have the benefit of frequent conferences with
the District Engineer who from his knowledge
of the District and frequent opportunities of
consulting with the Director would be able to
afford him aid on these points.

I have the honor to be,

Sir,

Yours most obedient servant

W. Huntington.

1st District Engineer
in charge District.

Southern Circle Office D.P.M.
 Mairis 19th September 1869

N^o. 100

Submitted to Govt with reference
 to the concluding para: (13) of letter from
 the Office No. 83, dated 27th Aug^r. 1862, upon
 the subject of diverting the waters of the
 'Penyaur' by a deep cutting into the headwaters
 District.

Richardson & Co.
 By Ch. Richardson & Co.

To
 Colonel M. J. Birdwood R.S.
 Secy to Govt P.W.D.
 Chepauk

To Govt. P.W.D. 16/9/69

Submitted
 to the Govt. 28/9/69
 by the P.W.D. Engineer
 in charge of the
 work.
 To the P.W.D. Engineer
 in charge of the
 work.
 To the P.W.D. Engineer
 in charge of the
 work.

Book 2-

Towards the P.W.D.
 as per the P.W.D.
 as per the P.W.D.
 as per the P.W.D.
 as per the P.W.D.
 as per the P.W.D.

No 2372 P. M. Department
 Proceedings of the Madras Government
 Under date the 2nd Sept 1862
 Read the following letters
 S. Circle

I forward the Deputy Chief Engineer
 Submitting for information the 1st of
 Rev. engineering has been given for the project
 of diverting the waters of the Periyar
 into an artificial channel near to join the
 Periyar and Vignayam in Madras.

S. 19th Sept 1862 No 100

Submit for information the
 letters from the Acting District
 Engineer of Madras regarding the
 re-examination to be made of the
 Vignay & Periyar-Arrier.

S. 19th Sept 1862 No 101

Ordered to be over until
 the receipt of a reply from
 the Resident of Travancore to
 letter of 24th Sept/62, No 222

13 Copies
 70

The Dy. Chy. AC Disp^d 9th

24th Sept 1862 P. M. Department
 Under date the 2nd Sept 1862

S. 19th Sept 1862 No 100

S. 19th Sept 1862 No 101

No 100

S. 19th Sept 1862 No 101

Submitted for information
 of the 1st of Rev. engineering
 has been given for the project
 of diverting the waters of the
 Periyar into an artificial channel
 near to join the Periyar and
 Vignayam in Madras.

No 53

No 2372 P. M. Department

Chas. W. Johnson Esq.
No. 1 Grand St. Oct 12

Dec 22
J. W. of the City of New York
Oct 12

Enclosed of
Dr. Rufus W. Smith
in building, New York
of the Board of Education
regarding the
building at the
of the Board of Education
of the Board of Education
the receipt of the
of the Board of Education
in the subject.

No 1000 Oct 12