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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 678 Press / Mis.

89-93.

Dated 4 - 4 - 1862.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 4th April 1862.

Read the following papers:—

No. 89. From Lieutenant-Colonel W. H. HORSLEY, Chief Engineer, Department Public Works, to J. D. SIM, Esq, Secretary to Government, dated Chepauk, 8th May 1861, No. 317.

SIR,

1. With reference to Proceedings Madras Government marginally noted,* I have the honor to forward Lieutenant Palmer's report† on the Ponnairy project on the work as it stood after the damage done to it during the heavy floods in August and November 1858, together with a survey, plans and estimates, amounting to Rupees (19,170) nineteen thousand one hundred and seventy:—

* Nos 1,532 and 1,710, dated 18th July and 13th August 1860
Nos 1 and 11, dated 1st October 1860, and 28th January 1861.
† No 685, dated 1st October 1860
3 Letters from District Engineer, Nos. 683, 870 and 1,491, dated 1st October and 1st November 1860, and 20th March 1861
6 Plans
2 Specifications
7 Abstract estimates

	RS.
Providing for repairing the Murthyaur under tunnel	7,230
Constructing a head sluice to regulate the supply of water in the Ponnairy channel...	3,660
Strengthening the Murthyaur river and Ponnairy channel banks ...	600
Protecting the head of the channel with a masonry wall	1,400
Putting in order and clearing out the supplying channels, the main channel 16¾ miles, and the broad and minor channels 32 miles in length	6,280
Total...	19,170

for the supply of water for the irrigation of 2,223 cawnies, or 2,940 acres, yielding an annual Revenue of Rupees 18,112, all of which has been taken up, already cleared, and will be brought under cultivation on the first year, after the completion of the work.

2. The District Engineer reports that he found the two arches of the under-tunnel on the stream-ward side in good order, but that the foundation of the arch nearest the Coleroon had been undermined for a distance of 40 feet from the south face walls, and had sunk considerably, carrying with it one-half of the arch; and that the abutment wall and arch for the next 43 feet were in good order, but that the arch beyond that had been torn open for a length of 48 feet.

3. The deep stream of the river and the force of water has widened the channel from 8 yards, its original breadth, to 14 yards, and the Acting District Engineer considers it absolutely necessary, that some permanent work, in the shape of a masonry wall, should be constructed at the head of the channel, so that the island between it and the Coleroon should not be further destroyed, modussils, &c., having heretofore been of no avail in protecting it, he has therefore entered an item of Rupees 1,400 in the estimate for that purpose which has my approval.

4. The banks of the channel between it and the Coleroon river being sandy, narrow and not sufficiently strong to resist the uncontrolled force of the water during the high freshes, Lieutenant Palmer has, with my permission, further inserted an item‡ for the construction of a head sluice to the Ponnairy channel, for the purpose of regulating the supply and arresting the erosion of the channel banks, that is at present going on.

‡ Rupees 3,660.

5. For restoring the banks of the Ponnairy channel and Murthyaur, adjoining the under tunnel, Rupees 600 are allowed, and for clearing and putting in order the main channel and certain minor branches, an aggregate sum of Rupees 6,280 is the estimated cost; and for this, we shall have 10¾ miles of main channel and 32 miles of branch and minor channels supplying

water, as above stated, for 2,223 cawnies or 2,940 acres of land; and, allowing at the rate of 4 cubic yards per hour per cawny, requiring 8,892 cubic yards per hour.

6. The head sluice allowed for in the accompanying estimate has three vents, 5 feet by 4 feet each, and with a depth of water 2 feet 6 inches in front, the discharge, the Acting District Engineer calculates, will average between 10 and 12,000 cubic yards per hour; but 2 feet 6 inches is less than the average depth of water in the river during the season, and on ordinary freshes, the discharge will be cubic yards 20,000 per hour; should the river fall so low as not to give a depth of 2 feet 6 inches, a corumboo could be raised which would soon supply the deficiency; the first freshes will fill the old Ponnairy tank, forming a reservoir 3 miles long from 50 to 70 yards wide and from 4 to 5 feet deep, and containing 200,000 cubic yards of water.

7. The extreme difference of level between the water in the Ponnairy channel and that in the Murthyaur will be 3 feet, the upward pressure on the arch of the tunnel would be 187 lbs. per square foot, to resist which there is a weight of masonry of 263 lbs.

8. If then to the present estimate of Rupees 19,170 the cost of the work up to date, viz., Rupees 63,000, be added, the probable aggregate expenditure will be Rupees 82,170, the return for which, supposing the Revenue to be as above stated, Rupees 18,112, will be about 22 per cent. per annum.

9. Every endeavour has been made to procure for Lieutenant Palmer efficient aid in carrying out the work, and with this and his own energetic exertions, I think there is no doubt of his being able to carry the project to completion in the course of the present working season.

10 In my letter of the 2nd November 1860, No. 6,584, paragraph 9, intimation is given that provision had been made for Rupees 15,000 to be spent in the past year on the above mentioned work; this sum will, I expect, be fully expended, as the work is now well advanced, but as no provision exists in the Budget for 1861-62, for the balance of the estimate now forwarded, viz., Rupees 3,010, I would recommend its being sanctioned from the Reserve Fund for the current official year.

	RS
Estimate.....	18,010
	15,000
	3,010 balance.

11. I regret the delay that has taken place in the submission of the accompanying papers, but the estimate had to be returned to the District Engineer for some information, and for the addition thereto of a head sluice proposed by him, and were not again received in this office, until late last year, when the estimate Department were fully occupied in examining the estimates for Military buildings and other works proposed for entry in the Budget of the year 1861-62; and on taking up the estimate subsequently, additional information was found to be required, necessitating further reference to the District Engineer.

No. 90. Endorsement of the Chief Engineer, dated Chepauk, 13th August 1861, No. 3,838.
From Lieutenant W. C. PALMER, Acting District Engineer of Trichinopoly, to the Deputy Chief Engineer, Southern Circle, dated Trichinopoly, 3rd August 1861, No. 532.

SIR,

1. I have the honor to report to you that on inspecting the works of the Ponnairy Project this week, I find they are far advanced towards completion.

2. The Murthyaur under tunnel is finished.

3. The arch of the head sluice is turned, and the masonry is all built with the exception of a small portion of the front parapet wall.

4. The excavation of the main channel has been commenced, and half of the work required to Nos. 1 and 2 branch channel has been done, and I expect the greater portion, if not the whole, of the earthwork will be completed in another month, when the water can be let into the channel for the irrigation of the land under it.

5. The season has been an unpropitious one from the floods in the Murthyaur and the constant presence of water in the Coleroon. This has increased greatly the baling, and excavating foundations, and the difficulty in procuring firewood and coolies has also added to the cost of brickwork so that the estimates for masonry will be exceeded, but I hope there will be a saving in the items allowed for earthwork, and that the total estimate for completing the project will not be greatly, if at all, exceeded.

Submitted to Government for information, with reference to the Chief Engineer's letter No. 317, dated 8th May 1861, with a request that the balance of the estimate, Rupees 4,170, as shown in paragraph 10 thereof, may be sanctioned from the Reserve Fund.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Chief Engineer.

No. 91. Endorsement of the Chief Engineer, dated Chepauk, 9th October 1861, No. 5,747.
From Captain W. C. PALMER, Acting District Engineer of Trichinopoly, to the Deputy Chief Engineer, Southern Circle, dated Trichinopoly, 28th September 1861, No. 907.

SIR,

1. I have the honor to report to you that on my inspection of the Ponnairy Project Works, I found them sufficiently advanced to enable me to open the channel and pass the Coleroon water down, which I did on Wednesday the 25th instant.

2. I then made an opening 3 yards wide in the embankments at the head through which the water flowed freely and well, and by this day the whole of the embankment will have been cleared away and a full body of water passed down.

2. At the head sluice the masonry was completed, with the exception of plastering to the lower part (3 feet) of the abutment wings and piers, which could not be carried out owing to the large body of water that percolated through the banks, and the springs under the foundations which rose 3 feet on the first fresh coming down in June, and since then the water within the embankment has continued from 3 to 4 feet in height, and the water poured in as fast as it could be baled out. These strong and copious springs under the work has caused me some anxiety, but as sluices similarly situated in Tanjore have stood well, and our mortar is good, I trust this sluice will stand equally well. The masonry is good; and at present there are no signs of cracks at all.

4. At the under tunnel below the Murthyaur river, the high freshes have tried the work, and cracks have appeared at the points where the new foundations have been this year added to those previously built. The foundation is sand, and these cracks are caused by the sinking of the new parts, whilst those built three years ago had already settled.

5. This could hardly have been avoided in making additions to an old building with only sand foundations—it will not however prevent the under tunnel from acting as the cracks do not extend to the arch work.

6. The constant freshes and presence of water, as previously reported, have added to the cost of embankment and baling, and there has been an excess in the estimates for the under tunnel and head sluice; but I hope to complete the whole project for the amount originally asked for, at most with an excess less than 5 per cent. on it.

7. The main channel has been cleared out in places where most needed, but some work is still required towards the end of the channel. The local rains bring in the drainage of the adjacent lands which silts up the bed, but this will be greatly modified as soon as a steady body of water flows down the channel, and until the effect of this is seen, I cannot judge how many side dams will be required, but I think about ten will have to be built.

8. The longest and most important of the branch channels, Nos. 1 and 2, are excavated, and on my inspection a good body of water was passing down them. The other channels as well as the minor ones are now being excavated.

9 I have acquainted the Collector with the progress of the works and I believe much land will be cultivated this year, and be the prelude to more extended cultivation next year.

10. I regret the channel could not have been opened earlier in the season, but as you are aware the special superintendence which I applied for and which was allowed by the Chief Engineer to be so essentially necessary for the prosecution of the work could not be given me, and I therefore had to make the best arrangement I could for the execution of the project.

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1 Original letter.

1. Submitted to Government for information, with reference to the Chief Engineer's letter No. 317, dated 8th May 1861.

2. It will be observed that cracks have appeared at the points where the new foundations have been added to the under tunnel this year. The sub-soil being sand, these cracks are occasioned by the partial settlement of the new portions of the work. As the cracks do not extend to the arch work, the under tunnel will be none the less efficient.

3. The constant freshes and presence of water have contributed to the cost of embankment and baling, and there has in consequence been an excess, it would appear, over the estimates for the under tunnel and head sluice; but the District Engineer hopes to complete the whole project for the amount originally applied for, viz., Rupees 19,170, or at most for a sum less than 5 per cent. in excess of the same.

4. In consequence of the advanced state of the works, much additional land will be cultivated this year, and more will be brought under cultivation next year, when the project shall have been fully completed.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Chief Engineer.

No. 92. Memorandum from Lieutenant-Colonel W. H. HORSLEY, Chief Engineer, to J. D. SIM, Esq, Secretary to Government, dated Chepauk, 23rd October 1861, No. 6,307.

The Chief Engineer has the honor to request that the sum of Rupees 18,010 entered in the margin of his letter of the 8th May last, No. 317, paragraph 10, may be corrected to Rupees 19,170, to tally with the total shown in paragraph 1 of the same letter, and that the balance of Rupees 3,010 entered in the margin of the former paragraph may be altered to Rupees 4,170 in consequence of the correction now requested to be made.

No. 93 ORDER THEREON, 4th April 1862, No. 678

1. With the first of the above letters the Chief Engineer forwarded the report on the Ponnairy channel and Murthyaur under tunnel called for in the Proceedings of Government marginally noted, together with plans and estimates for the restoration and completion of the works connected therewith amounting to Rupees 19,170, as follows:—

Nos 1,532 and 1,710, dated 18th July and 13th August 1860, and Nos 1 and 11, dated 1st October 1860, and 28th January 1861.

	Rs.
Providing for repairing the Murthyaur under tunnel... ...	7,230
Constructing a head sluice to regulate the supply of water in the Ponnairy channel.	3,660
Strengthening the Murthyaur river and Ponnairy channel banks... ...	600
Protecting the head of the channel with a masonry wall...	1,400
Putting in order and clearing out the supplying channels, the main channel 16¾ miles, and broad and minor channels 32 miles in length...	6,280
	19,170

2. From the Acting District Engineer's report on the under tunnel it appears that the two arches on the stream-ward side were in good order, but that the foundation of the arch nearest the Coleroon was undermined for 40 feet in length; the abutment wall and arch for the next 43 feet were in good order, but beyond that again the arch had been torn open for a length of 48 feet. The force of the stream during freshes had widened the channel from 8 to 14 yards and proportionately reduced the breadth of the island between it and the Coleroon. In order to arrest this encroachment and at the same time regulate the supply to the channel the Acting District Engineer proposed to construct a masonry wall and head sluice.

3. The banks of the Ponnairy channel and Murthyaur adjoining the under tunnel stood in need of restoration, and the main channel itself, together with certain minor branches, required to be carried out to completion.

* 1st October 1860.

Paragraph 5.

Paragraph 1

4. The aggreate cost of the Ponnairy project up to the date* of the report had been Rupees 63,000. To this if the present estimate, Rupees 19,170, be added, the total outlay will be raised to Rupees 82,170, and for this the Chief Engineer shows that the Government will possess 10¾ miles of main channel and 32 miles of branch and minor channels supplying water to 2,223 cawnies or 2,940 acres of land, yielding an annual Revenue of Rupees 18,112, all of which is reported to have been taken up, already cleared, and will be brought under cultivation in the first year after the completion of the work. The return would thus be about 22 per cent. on the outlay.

Proceedings of Government, 25th November 1861, No. 2388.

5. For carrying out these works provision to the extent of Rupees 15,000 was made by the Chief Engineer in his revised allotment of funds for 1860-61, which was approved of by Government in their Proceedings noted in the margin.

6. On the 28th March 1861, the Chief Engineer forwarded a letter from the Acting District Engineer, reporting damages to the amount of Rupees 300 caused by heavy and unusual showers of rain, and stated that permission had been given to proceed with the works pending the submission of the report and estimate now under review. This letter was recorded.

7. In paragraph 10 of the first letter noted at the head of these Proceedings, Colonel Horsley reported that the sum* allowed in the Budget of 1860-61 would, he expected, be fully expended in that year, as the work was well advanced, and as no provision had been made in that of 1861-62 for the balance† of the estimate then forwarded, he recommended that it should be met by a grant from the reserve fund of that year.

* Rupees 15,000.

† Rupees 4,170.

8. With his endorsement, No. 3,838, dated 13th August 1861, which is the second of the above noted papers, the Chief Engineer submitted a letter from the Acting District Engineer reporting that the Murthyaur under tunnel was finished, and the head sluice nearly so. The excavation of the main channel had been commenced and half of the work required to Nos. 1 & 2 branch channels done, and it was expected that the whole of the earth work would be completed in another month, when water would be let into the channel for the irrigation of the lands under it. The Acting District Engineer further brought to notice that owing to various causes the estimate for brick work would probably be exceeded, but that a corresponding saving in earth-work would, he hoped, compensate for it, so that the total estimate for completing the project would not be greatly, if at all, exceeded.

Dated 28th September 1861.

A later report by the same Officer was forwarded to Government with the Chief Engineer's Endorsement No. 5,717, dated 9th October 1861, from which it is learnt that the works were then sufficiently advanced to allow of water being passed down the channel and that much additional land would be cultivated this year, and more brought under the plough next year, when the project shall have been completed. At the Murthyaur under tunnel cracks had appeared at the points where the new and old work joined, but as they did not extend to the arch work the tunnel would be nevertheless efficient.

The Acting District Engineer was still sanguine of completing the project for the amount of the estimate, viz., Rupees 19,170, or at most for a sum less than five per cent. in excess of the same.

In the last of the papers noted above, the Chief Engineer pointed out an error in his letter No. 317, dated 8th May 1861, and requested that the sum of Rupees 18,010* might be corrected to Rupees 19,170, to tally with the total shown in paragraph 1 of the same letter, and that the balance of Rupees 3,010 entered in the margin of paragraph 10 might be altered to Rupees 4,170.

* Paragraph 10.

The Government observe that by some oversight these papers were not disposed of at the time of receipt. Under the explanation furnished by the Chief Engineer they now accord sanction to the estimate† submitted with his letter of the 8th May 1861, No. 317, for completing the project, which notwithstanding the many hinderances and accidents that have occurred is still likely to prove remunerative. Before authorizing, however, the grant of Rupees 4,170 from the Reserve Fund of the current year, they wish to be informed of the exact sum that was spent on this estimate up to 30th April 1861, out of the allotment of Rupees 15,000 made in the Budget of 1860-61 for the work in question, and also what outlay has taken place since then, and how this latter has been met.

† Rupees 19,170.

9. The Government are aware from subsequent reports that the Murthyaur under tunnel has again sustained injury, and they await the submission of the plans and estimates for its repair called for in their Proceedings No. 402, dated 11th March 1862. They would also wish to have before them a statement showing the extent of cultivation to which water has been supplied during the present season, notwithstanding the accident which happened to the under tunnel, and the amount that is likely to be realized therefrom

10. The Chief Engineer will also be requested to report whether the above sum of Rupees 4,170 is still available from the Reserve Fund of the current year, should it be required to meet expenditure already incurred.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Secretary to Government.

P. W. D. 1.

No. 678.

Proceedings of the Madras Govt
Under Date the 4th April 1862

Read the following
letters from the Chief Engr

Submits with reference
to orders Nos 1522 and 1710
dated 18th July and 13th Augt /60
Plans and Estimates amount-
-ing to Rupees 19,170 for
Completing the Ponany
channel project in the
District of Trichinopoly
(Here Enter 8th May /61 No. 317)

Submits a letter from
the Actg District Engineer
Trichinopoly reporting pres.
condition of the Ponany Project
/—— do —— 13th Augt /61 No. 3838/

Submits for informa-
-tion, a letter from the
Actg Dist. Engr of Trichinopoly
reporting on the Ponany Project
after personal inspection of the works
/—— do —— 9th Octr /61 No. 5747/

Requests to make a
correction in letter to Govt
dated 8th May 1861 No. 317
/—— do —— 23d —— do —— 6307/

Write

With the first of the above letters the Chief Engineer forwarded the Report on the Ponnany channel and Murtayar Under Tunnel called for in the Govt. Marginally noted, together with Plans and Estimates for the restoration and completion of the works connected therewith amounting to Rupees 19,170 as follows

Nos. 1532 & 1710 dy 18th July & 13th Augt.
& Nos. 1811 dy 1st Septr. & 28th Jany/73

Providing for Repairing the Murtayan under Tunnel	7,230
Constructing a Head Sluice to regulate the supply of water in the Ponany Channel	3,660
Strengthening the Murtayan River and Ponany Channel Banks	600
Protecting the Head of the Channel with a Masonry Wall	1,200
Putting in order & clearing out the supplying Channels the main Channel 16 3/4 Miles, & the minor Channels 32 Miles in length	6,280
	Rupees 19,170

From the Acting District Engineer's report on the Under Tunnel it appears that the two arches on the Streamward side were in good order, but that the foundation of the Arch nearest the Coleroon was undermined for 40 feet in height, the abutment wall and arch for the next 63 feet were in good order, but beyond that again the arch had been torn open for a length of 48 feet. The force of the Stream during freshes had widened the channel from 8 to 12 Yards and proportionately reduced the breadth of the island between it and the Coleroon. In order to arrest this encroachment and at

at the same time re-
-gulate the supply to the
channel the Acting Dist.
Engineer proposed to con-
-struct a Masonry wall
and Head Sluice-

The banks of the
Pormaing channel and
Murlingaur adjoining
the Elider Tunnel
stood in need of restora-
-tion, and the main chan
-nel itself, together with
certain minor branches,
required to be carried
out to completion-

The aggregate cost
of the Pormaing Project
up to the date of the Report
had been Rupees 63,000.
To this if the present
Estimate, Rupees 9,170,
be added, the total
outlay will be raised
to

× 1st October 1860

Para 5

Para 1

to Rupees 82,170, and for
this the Chief Engineer
shews that the Govt
will possess 10 3/4 Miles
of Main Channel and
32 Miles of Branch and
Minor Channels supplying
water to 2,223 Cawnies
or 2,940 acres of land,
yielding an annual
Revenue of Rupees 18,112,
all of which is re-
-ported to have been
taken up, already cleared
and will be brought
under cultivation in
the first year after the
completion of the works.
The return would thus
be about 22 per cent on
the outlay-

For carrying out
these works provision
to

to the extent of Rs 15,000 was made by the Chief Engineer in his revised allotment of funds for 1860/61, which was approved of by Govt in their Pro:. noted in the margin.

Pro:. of Govt 20th Nov/60 No 2388

On the 28th March 1861 the Chief Engineer forwarded a letter from the Acting District Engr reporting damages to the amount of Rupees 300 caused by heavy and unusual showers of rain, and stated that permission had been given to proceed with the works pending the submission of the report and Estimate

× Rupees 15,000

× Rupees 4,170

Estimate under review. This letter was recorded.

In para 10 of the first letter noted at the head of these Proceedings Colonel Horsley reports that the sum allowed in the Budget of 1860/61 would, he expected, be fully expended in that year, as the work was well advanced, and as no provision had been made in that of 1861/62 for the balance of the Estimate then forwarded, he recommended that it should be met by a grant from the Reserve fund of that Year.

Witto

With his Endorse-
ment No. 3838 dated
13th August 1861
which is the Second
of the above noted
papers the Chief
Engineer submitted
a letter from the Acting
District Engineer
reporting that the
Murtazaur Tunnel
was finished
and the Head Sluice
nearly so. The exca-
vation of the main
channel had been
commenced and
half of the work
required to No. 1 & 2
Branch

Branch Channels done, and it
was expected that the whole of the
earth works would be completed
in another month, when waters
would be let into the Channel
for the irrigation of the lands
under it. The acting District
Engr. further brought to notice
that owing to various causes the
Estimates for brick work would
probably be exceeded, but that
a corresponding saving in earth
work would be hoped, compensate
for it, so that the total Estimate
for completing the Project would
not be greatly, if at all, exceeded.

dated 28th Sept. 1861

A later report by the
same Officer was forwarded to
Government with the Chief
Engineer's Endorsement No. 5747
dated 9th October 1861, from which

which it is learnt that the works were then sufficiently advanced to allow of water being passed down the Channel and that much additional land would be cultivated this year, and more brought under the plough next year, when the project shall have been completed. At the Murthyaur under Tunnel a crack had appeared at the points where the new and old work joined, but as they did not extend to the arch work the tunnel would be nevertheless efficient.

The Ag. District Engr. was still sanguine of completing the project for the amount of the Estimate Vizt Rs.

x para 10

Rs. 19,170 or at most for a sum less than 5 per cent in excess of the same.

In the last of the papers noted above, the Chief Engr. pointed out an error in the letter No. 317, dated 8th May 1861, and requested that the sum of Rs. 18,010 x might be corrected to Rs 19,170, to tally with the total shewn in para 1 of the same letter, and that the balance of Rs 3,010 entered in the Margin of para 10 might be altered to Rs 4,170

The Government observe that by some oversight these papers were not disposed of at the time of receipt. Under the explanation furnished by the Chief Engr. they now accord

accord sanction to the Estimate[x] submitted with his letter of the 8th May 1861, No. 317, for completing the project, which notwithstanding the many hinderances and accidents that have occurred is still likely to prove remunerative. Before authorizing however, the grant of Rs. 4,170 from the Reserve Fund of the current year, they wish to be informed of the exact sum that was spent on this Estimate up to 30th April 1861 out of the allotment of Rs. 15,000 made in the Budget of 1860-61 for the work in question, and also what outlay has taken place since then, and how this latter

[x] Rs. 19,170

latter has been met.

The Government are aware from the subsequent reports that the Dumthyaw tinder tunnel has again sustained injury, and they await the submission of the Plans and Estimates for the repair called for in their Proc. No. 402, dated 11th March '62. They would also wish to have before them a statement shewing the extent of cultivation to which water has been supplied during the present season, notwithstanding the accident which happened to the under tunnel, and the amount that is likely to be realised therefrom.

The

The Chief Engr will also be requested to report whether the above sums of Rs. 4,170 is still available from the Revenue of the current year, or should it be required to meet expenditure already incurred.

5.5

13 Copies

To
The Dy Ch Engr S. Circle Bijapur
3 " Accts General
7 " Chief Engr with 12 Encls. & 4 Plans.
20 " Revenue Depts

87

(6)

Ponniary Channel Project
in Trichinopoly

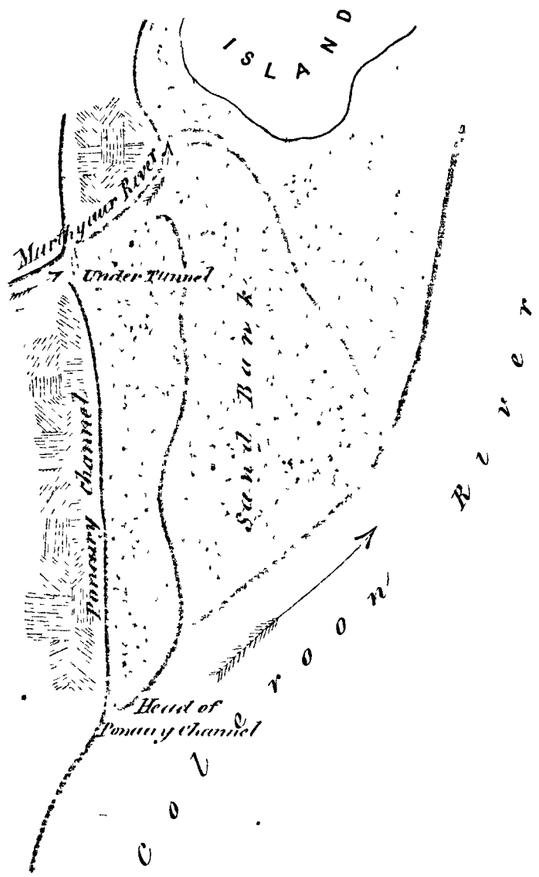
C. No. 1053, 1861;
2268, & 2383

Memorandum.

These Plans and Estimates refer partly to repairs and partly to modifications, improvements, and extensions of a Project called the Ponniary Channel, sanctioned by the Government of India in January 1855.

The Project was designed for the irrigation of certain Villages situated on the left bank of the Coleroon in the Trichinopoly District.

The Channel as originally designed was completed and opened in July



20th March 1861

however
July 1857: Owing to the
difficulty of keeping the
head clear from the
deposits of the River
Murthyar which falls
into the Coleroon just
above the Channel
proposals were submitted
for making a new
Head higher up, and
carrying the water by
means of a Tunnel
under the Murthyar -

As this proposal
involved an excess over
the original Estimate
and necessitated the
sanction of the Govt
of India, it was
accordingly preferred,
and

and received sanction in March
1858.

In the execution
of the work a consi-
derable excess was in-
curred over the Estimate
and consequent on the
unsatisfactory explan-
ations which were
given thereon the Ex-
ecutive Officer in
immediate charge of
the work was degraded
from his appointment
and the Superintending
Engineer of the Circle
directed to submit a
special report on the
condition of the Ponany
Channel in general
and on the Murthyar
Under

In Ec: Min: of Con:
2nd March 1859

under Journal in par-
-ticular.

From various causes this Report was not received until 1st October 1860 being drawn up by the Officer in charge of the District.

Meanwhile the works had proceeded arising from some violent floods which showed the necessity for further modifications and Estimates, including these as well as the requisite repairs to the Ponany Channel and embankment were

supplied

Para 3 of letter No. 11490
dated 28th March 1861
Recorded in Pro: of Govt
No. 697 dated 8th April 1861

supplied by the above
Officer and forwarded to
Govt in May last - As
the Collector and Dis-
-trict Engineer had repre-
-sented the urgent neces-
-sity for the works not
being delayed the Chief
Engineer issued the nec-
-cessary instructions for
having them commenced
in anticipation of the
sanction of Govt and
reported that he had
done so.

By some oversight
these papers have been
mislaid in the Govern-
-ment Office until now
together with others on
the subject, including

a Report by the Dis-
trict Engineer detailing
the progress which had
been made on the work
and requesting that the
balance of the Estimate
might be furnished
from the Reserve Fund
during the current year
as works would be
finished ere its close.

The Estimate
worked
already out amount to
Rs 19,170 the whole exe-
penditure on the Pro-
ject including its exe-
tensions to 82,170 -
The Returns from
land already taken
up and ready for
cultivation during the
first

first year are put down
by the Revenue Autho-
rities at Rs 18,112 or
about 22 per cent on the
outlay -

Proceedings are
herewith forwarded
for approval -

Dy. C. P.

Mems. on the Pomeroy Channel Project.

Public Works 1862 Dep^tto
Pro. of Gov^t for April

No 678.

Pro: of the Aurora Gov^t.
Dep^t. April 1862.

Chief Engineer Report
on the Pomeroy Channel
and Marthyquin under
Channels with orders thereon.

Cr. 89 at 93.

C20 March R24