

- (1) பக்கங்களின் எண்ணிக்கை 18
 (2) புதுக்கித் திருப்பிய நாள் 6/88
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 6/88

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

திரு. அ. அ. அ. துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	897	அச்சகம் பலவகை
நாள் :	19-3-1888	1988

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

A. Man

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Civil Works.
Irrigation.

READ—the following paper :—

No. 700 P.R.

Note on progress on Periyár Project Works to end of February 1888.

The road from the main Travancore road to Thekady camp, and for about a mile further to the point on the cutting where the materials will probably be shipped on boats, has been completed and gravelled, and from that point to the Periyár the bridle path already completed has been maintained in good order.

All surveys for the wire tramway line have been completed, the line finally decided upon and cleared from the bottom of the ghât to Thekady camp.

Water-shed cutting.—Excavation has been done to some extent on almost the whole length. The lower portion, 750 feet long, has been cleared of earth to its final level of 113. A good deal of rock has been taken out, and a little only still remains to complete this length. The centre section of the cutting has been excavated to about 12 feet depth and stepped back to prevent slips during the early rains. A large amount of removal of stone by blasting has been done at the end near the camp, and the line taken on and cleared to 10 feet depth to where the head of the tunnel will be.

At the lower end of the tunnel a good beginning has been made in clearing out earth and rock at the head of the ravine. The exact line of the tunnel has been marked by a cut on the rock and by a line on a built stone.

Banks have been made up to prevent the river breaking into the cutting in the event of early freshes, and all labor has been withdrawn from these works from the 1st March.

The electric apparatus has been used with success on the blasting. The effect of a dozen charges being fired exactly simultaneously being conspicuously greater than the firing at different times by ordinary fuse.

The first two locks on the Muliya Panjan have been commenced. The lift wall of No. 1 has been constructed of concrete to within 3 feet of full height. The chamber has been excavated and earthwork on the banks completed.

Chamber of No. 2 excavated and foundation of lift wall in progress. Materials have been collected at site. Three out of six bags of Portland cement were taken out of the shed by elephants, opened, and their contents scattered about.

The reservoir dam has been commenced, and it is hoped will be finished before the close of the season.

The line for the turbine supply channel has been laid out for the whole length from the Muliya Panjan dam at Kumuli to the tunnel mouth and extended to the point on the wire tramway line where the driving turbine will be.

The quarters for the Assistant Engineer are almost completed, the roof of shingles being very nearly finished.

The magazine has been completed, except plastering.

The office and the store-shed buildings are in progress, and sanction has been urgently asked for to obtain sheeting in Madras to roof them in.

At Periyár.—About 200 coolies have been steadily at work on clearing the *right bank escape*. Rock has been reached, and this has been blasted for material for the buildings.

The final site for the *main dam* has been lockspitted on both sides of the river, and considerable clearing done. Rock has only been reached at a very low level. A small manual fire-engine has been tried with success in washing down into the river the earth excavated by hand. Twelve coolies work it, and it takes the place of about eighty women with baskets removing the spoil dug by twenty men.

Buildings—Superintending Engineer's quarters.—Walls of pisé up to about 8 feet of the main rooms; the rear rooms have not been progressing, as the hut whose place they take could not be dispensed with.

Executive Engineer's quarters.—Walls of pisé completed except gables, and all roof timber and corrugated sheets ready to be put in place.

Assistant Engineer's quarters.—Walls of pisé completed, roof timber in place, and sheets ready at site.

Supervisor's quarters.—Walls of stone-in-mud completed and entirely roofed in with shingles. Plastering and flooring only remain to complete this building.

Office building.—Walls of stone-in-mud progressing rapidly, roof timbers being prepared, and sanction asked to procure sheets for roofing.

A great deal of clearing has been done to protect the various camps from fire. Half the cooly lines, or huts for 300 to 400 coolies, were burnt down last month through carelessness.

Since January there have been on the average about 1,200 coolies at work at Thekady and 700 at Periyár. The daily hospital returns show only about $2\frac{1}{2}$ per cent. sickness from climatic causes.

Work will be stopped altogether on the 15th March, and the office and staff will be able to leave about the 20th for Madura. Arrangements will be made for preserving the camp by keeping a temporary establishment of men used to the climate in charge.

KUMILI, MADURA,
5th March 1888.

(Signed) H. S. TAYLOR,
Superintendent of Works, Periyár Project.

ORDER—dated 19th March 1888, No. 897 W., Public Works.

Recorded.

2. The report is satisfactory.

(True Extract.)

Captain, R.E.,
Under Secy. to Govt., P.W.D.

To the Chief Engineer for Irrigation.
" Superintendent of Works, Periyár Project.
" Revenue Department.
" Political "
" Newspapers.

Exd. J. Moses.
Spare Copies

CIVIL WORKS.
IRRIGATION.

Govt. of (1888) Madras.
PUBLIC WORKS.

Dated March, 19th.

Recd.

Encl.

G.O., 19th March 1888, No. 897 W.

MARCH.

Periyar Project Works

Orders on report on progress on the — to
end of February 1888.

No 700, P. R. 57 1P

Note on progress on Periyar
Project works to end of
February 1888.

The road from the
main Travancore road
to Thekady Camp and
for about a mile further
to the point on the cutting
where the materials will
probably be shipped on boats
has been completed and
gravelled, and from that
point to the Periyar, the
widle path already com-
-pleted has been main-
-tained in good order.

All surveys for the
Wire Tramway line have
been completed, the line
finally decided upon and
cleared, from the bottom
of the ghant to Thekady
camp.

Water shed cutting
excavation has been done
to some extent on almost
the whole length. The lower

portion of 50 feet long
has been cleared of earth
to its final level of 113.

A good deal of rock
has been taken out and
a little only still remains
to complete this length.

The centre section of the
cutting has been mea-
sured to about 12 feet
depth and stepped back
to prevent slips during
the early rains. A large
amount of removal of
stone by blasting has
been done at the end near
the camp, and the line
taken on, and cleared to
10 feet depth to where the
head of the tunnel will
be.

At the lower end of the
tunnel a good beginning
has been made in clearing
out earth and rock at the
head of the ravine. The
exact line of the tunnel
has been marked by a
cut on the rock, and by a
line on a built stone.

Banks have been made
up to prevent the river

210
breaking into the cutting
in the event of early freshes
and all labor has been
withdrawn from these works
from the 1st March.

The electric apparatus
has been used with success
on the blasting. The effect
of a dozen charges being
fired exactly simultaneously
being conspicuously greater
than the firing at different
times by ordinary fuse.

The first two locks on
the Muliga Panjane have
been commenced. The left
wall of No. 1 has been con-
structed of concrete to
within 3 feet of full height.
The chamber has been ex-
cavated, and earthwork
on the banks completed.

Chamber of No. 2 excavated
and foundation of left wall
in progress. Materials
have been collected at site.
Three out of six bags of
Portland cement were taken
out of the shed by elephants,
opened and their contents
scattered about.

The reservoir dam has

been commenced and it is hoped will be finished before the close of the season.

The line for the turbine supply channel has been laid out for the whole length from the Murlia Panjan dam at Kumili to the tunnel mouth, and extended to the point on the wire tramway line where the driving turbine will be.

11 The Quarters for the Assistant Engineer are almost completed, the roof of shingles being very nearly finished.

The Magazine has been completed except plastering.

The office and the store-shed buildings are in progress, and sanction has been urgently asked for to obtain sheeting in Madras to roof them in.

At Periyar.

About 200 coolies have been steadily at work on clearing the Right Beduk escape. Rock has been reached and this has been blasted for material for the buildings.

The

31st
The final site for the Main Dam has been located on both sides of the river, and considerable clearing done. Rock has only been reached at a very low level. A small manual fire engine has been tried with success in washing down into the river the earth excavated by hand. Twelve coolies work it, and it takes the place of about 80 women with baskets, removing the spoil dug by 20 men.

Buildings.

Superintending Engineer's Quarters. walls of pisé up to about 8 feet, of the main rooms, the rear rooms have not been progressing as the hut whose place they take could not be dispensed with.

Executive Engineer's Quarters

Walls of pisé completed except gables and all roof timber and corrugated sheet ready to be put in place.

Assistant Engr's Quarters

walls

walls of kisi completed,
roof timber in place, and
shuts ready at site.

Supervisor's Quarters

Walls of stone in mud
completed, and entirely
roofed in with shingles.
Plastering and flooring
only remain to complete
this building.

Office building walls
of stone in mud progress-
ing rapidly, roof timbers
being prepared and some-
times asked to procure
shuts for roofing.

A great deal of clear-
ing has been done to pre-
vent the various camps
from fire. Half the cooly
lines, or huts for 300 to
400 coolies were burnt
down last month through
carelessness.

Since January there
have been on the average
about 1,200 coolies at work
at Thekady, and 400 at
Pennyar. The daily hospital
returns show only about $2\frac{1}{2}$

4P
per cent sickness from
climatic causes.

Work will be stopped
altogether on the 15th March,
and the officer and staff
will be able to leave about
the 20th for Madras.
Arrangements will be
made for preserving the
camp, by keeping a tem-
porary establishment of
men used to the climate,
in charge.

H. Taylor

Supt^g of works.
Pennyar Project

Kumili Masura,
5th March 1888.

19/62

To,

The Chief Engineer for Irrigation

No. 8970 of 11th March 1888



P.M. 25

Recorded

2. The report is satisfactory -

M.H.
19/3/88

Jerome

The Suplt of W
Periyar P.

To. The Chief Eng
for Irriga

No. 700.P.R

Dated 5th March

and it is
not to be

Note on progress
Periyar works to
of February 1888

- To the Chief Secy for P.W.
- " Supr of Works Periyar Project
- " Rev. Dept
- " Political Dept.
- " Newspapers

W. M. ...

Cur 2.16
 8/2/88
 Draft disposal
 submitted -
 If this be approved
 & initialed, the paper
 will be printed
 Cur
 19.3.88

82
Note on progress on Pirias
Project works to end of February
1888. by J. B. dated 5 March
1888.

C
Good progress is being made.
The note might be laid on
the Editor's table.

15 Mar

Circulated to
His Excellency the Governor and
the Honorable J. P. Hutchins.
for information

M. M. - Colonel R. B.
Joint Secretary to Govt. P. W. D.
Irrigation Branch

14 March 1888

12th

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Circ. 11. III 88
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25/6

Govt. of Madras.
PUBLIC WORKS.

27/6

Dated

Read

Encl.

G.O. 19th March 1888 No. 897

Periyar project
works
=

orders on report on
progress on the
to end of Feb '88.

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88
20/3