

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referee _____

MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No. 1263		Press
		Mis.
32-33		
Dated 2	5	1868.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd May 1868.*

No. 32. Read the following Endorsement of the Superintending Engineer, 4th Division, dated Madras, 6th April 1868, No. 126.

Read the following:—

No. 22.

1. *State of progress of the Madras Water Works up to 31st March 1868.*—The progress of the works in general has been more satisfactory than during the preceding three months. Of the Budget allotment for the year 1867-68, amounting to Rupees 3,02,279, Rupees 2,85,174-11-9 were expended during the year, leaving only Rupees 17,104-4-3 to lapse; included in the expenditure this month is a sum of Rupees 30,000, which has been handed over to the Collector for payment of compensation for land taken up by the works, the details of which have not been received.

2. *Malabar and Anicut, Coelhar river.*—During the month the following average number of men have been employed on the work daily:—

Excavators	Stone-cutters	Masons	Smiths	Carpenters
67	27	11	3	2

The work performed as under:—

Cubic yards earth excavated	2,011
Running feet well 6 feet diameter sunk and filled with concrete	81
Cubic yards laterite masonry in channel built	426

3. *Supply Channel from Coelhar to Chidambaram.* (a) *Earth cutting for Channel.*—Two portions of this channel are yet incomplete. One mile of the upper end under Messrs. Horgan & Co., and 1,000 feet running through Alieheri tank. On the two portions 100 coolies have been on an average daily engaged. The depth of cutting on the first portion averages 9 feet, on the second 8 feet; 7,168 cubic yards have been excavated during the month; about 16,000 cubic yards have still to be dug out.

An increase in the number of coolies has been made by the Contractors during the latter part of the month, after continued pressure by the officer in charge, and the progress will be henceforth greater.

(b) *Masonry work.*—The sites for four bridges and nine inlets were marked for the Contractor during the latter part of the previous month, during March the excavation for all the bridges was taken up, for two completed, viz., at Boosyathpet and Alieheri, and the masonry foundations for these latter were commenced on the 23rd March 1868.

The average number of coolies employed daily has been 160.

4. *Chidambaram tank.*—The progress made by the Contractor on this work has been more satisfactory during this than in previous months.

The revetment, &c., along the north extension has been proceeded with, as the backing of the bund, and completion to full section up to the level assigned for the present year.

The daily average of labor during the month was as under:—

Carts	Stone cutters	Coolies on revetment, &c.	Coolies on earthwork.
150	221 1/2	200	200

*Proceedings of the Madras Government, Public Works Department,
2nd May 1863.*

Delay has been caused by an attempt made by the villagers at Yerimittapallam to extort a royalty on stones carted from the quarries from the Contractors. They opposed the loading of the stone, and the question had to be referred to the Collector, who decided against them.

The daily progress is totally inadequate to enable the design of raising the water level 6 feet during next season to be carried out.

The Executive Engineer in charge reported on this subject on the 26th February 1863, and again on the 12th March 1863, No. 483; received authority from the Superintending Engineer to advertise for tenders on the 16th March 1863, No. 5,615. This was done on the 21st March 1863. One application has been made for specification by Woolley, Esq.

5. *Channel between Lakes.*—The excavation of this channel is proceeding. It is confined, at present, to the completion to full depth, and section of that portion in easy soil. The rocky section will now again be taken in hand, as blasting powder has been received. During the month 690 coolies have been daily employed.

6. *Red Hill Land.* (a) *Main Land.*—The backing of the bund and forming to full section at the level proposed for this year is proceeding satisfactorily. The revetment is also being carried on, but only at the rate of 85 cubic yards per month.

Tenders have been called for as for Cholavaram bund. The progress being quite inadequate.

The difficulty consists in obtaining a good supply of stone for revetment. The Executive Engineer has done everything in his power to induce the Contractor to increase his daily supply, paying weekly on it; but there has been as yet but little improvement.

The daily average of labor has been as under:—

Carts	Builders and Stonecutters.	Coolies on revetment, &c.	Coolies on earthwork.
83	20	350	600

(b) *Sourapali extension.*—The earthwork of this bund is nearly completed, on an average 400 coolies have been daily engaged. The revetment will be taken up as soon as a satisfactory tender has been received.

7. On the whole, though matters have improved somewhat during the past month, the rate of progress of the Contractors is far from what it should be. It is satisfactory, however, to be able to report that the quality of the work in general is much improved, and in fact is as good as can be desired. The earthwork is carefully made up in layers, water used to consolidate it at all junctions, the old earth cut out in steps turned up and wetted, &c.

The revetment is properly squared, and well laid. The gravelling well packed, and the full amount of paddlo laid in, and all spoil banks are neatly laid up by means of string sections.

Red Hills,
4th April 1863.

(Signed) A. DE C. SCOTT, Captain, R. E.,
Executive Engineer, Madras Works Works.

Forwarded to the Chief Engineer for Irrigation for information.

(Signed) A. J. M. BOILLIEU, Colonel, R. E.,
Superintending Engineer, 4th Division.

*Proceedings of the Madras Government, Public Works Department,
2nd May 1863.*

MEMORANDUM.

Submitted to Government, who will doubtless be glad to learn that the quality of the work and especially of the earthwork at the Red Hills and Cholavaram tanks has been much improved since the date of the last report (9th January 1863). There should be no difficulty in advancing the work to such a stage as to allow of the water from the Cortelliar being admitted, and of an additional depth of 2 yards being stored in the tanks, during next monsoon, as contemplated in G. O., No. 255, 21st January 1863. The progress of the revetment is not keeping pace with that of the earthwork, but although Captain Scott's endeavours to push it forward should not be relaxed it is not indispensable that it should be carried to the height proposed in my former report (6 feet above water level) before the additional supply of water is admitted.

(Signed) J. C. ANDERSON, Lieut.-Colonel, R. E.,
Chief Engineer for Irrigation.

Fort St. George,
8th April 1863.

ORDER THEREON, 2nd May 1863, No. 1,363.

No. 33.

Ordered to be recorded.

IRRIGATION, No. 3.

(True Extract)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 4th Division.

Ed. S. T. August 1863.

State of progress of the works in the works up to 31 March 1868.

General

The progress of the works in general has been more satisfactory than during the preceding three months of the Budget allotment for the year 1867/68 amounting to Rupees 202,277. Rupees 2,55,174 - 11. 9 were expended during the year having only Rupees 1,10,443 to spare; included in the expenditure the amount is a sum of Rupees 8,000 which has been handed over to the collector for payment of compensation for land taken up by the works, the details of which have not been received.

Work done in the British River

During the month the following average number of men have been employed on the work

<u>daily</u>				
beavers.	stewards	hasons	smiths	carpenters
57	27	14	3	2

<u>The work performed under</u>	
Cuttings made in the river	2,442
Removal of soil & stones	
Bank and filled with mud	84
Cuttings made in the river	
in channel built	456

3. Lightly channel from British to Chola river.
(a) Earth cutting for channel. Two portions of the channel are not complete. The hole of the upper end

under high 5: 4 or 5 ft. inside 1000 feet running through
where Lake. In the two portions 400 coolies have been
on an average daily engaged. The depth of cutting on
the 1st portion averages 9 feet on the second 5'.

7188 cubic yards have been excavated during the
month about 25,000 cubic yards have still to be
dug out.

An increase in the number of coolies has been
made by the contractors during the latter part of the
month after continued pressure by the Officer in
charge and the progress will be henceforth greater.

Masonry works.

The sites for four bridges and four culverts were
marked for the Contractor during the latter part of
the previous month. During March the excavation
for all the bridges was taken up for two completed
viz; at Bonyathpet and Achur and the
masonry foundations for these latter were com-
menced on the 23rd March 1888.

The average number of coolies employed daily
has been 150.

Cholanurum Bund

The progress made by the contractor in this
work has been more satisfactory during this than
in previous months.

The Retention of along the North Extension
has been proceeded with, as the backing of the Bund
and completion to full section up to the level
specified for the present year.

The daily average of labour during the month
was as under.

Carts - Stonecutters & Builders - Coolies on Retention of
150 ——— 300 ——— 200 —
Coolies on Earthwork.

Delay has been caused by an attack made
by the villagers at Yerruttipallam to intercept a
Royalty on stones carted from the quarries from the
Contractors. The demand for the loading of the stones,
and the question had to be referred to the Collector,
who decided against them.

The daily progress is totally inadequate to enable
the design of raising the water level 6 feet
during next season to be carried out.

The Resident Engineer in charge reported on
this subject on the 26th February 1888 and again
on the 12th March 1888 at Rs 4.00 received authority
from the Superintending Engineer to advertise for
tenders on the 16th March 1888 at Rs 56.15. This was
done on the 24th March 1888. One application
has been made for specification by Mr. J. J. J.
Channel between Lakes.

5

The excavation of this channel is proceeding.
It is confined at present to the completion to
full depth and section of that portion in easy
soil. The Rocky section will soon again be taken
up. The Blasting powder has been received
in hand as Blasting powder has been received.
During the month 600 coolies have been daily
employed.

Red Hill Bund

(a) Main Bund

The Backing of the Bund and forming to full section at the level proposed for this year is proceeding satisfactorily.

The Rectification is also being carried on but only at the rate of 85 cubic yards per month.

Tenders have been called for as for Cholanur Bund. The progress being quite inadequate.

The difficulty consists in obtaining a good supply of stones for Rectification. The Executive Engineer has done every thing in his power to induce the Contractor to increase his daily supply paying weekly on it, but there has been as yet but little improvement.

The daily average of labour has been as under.

Carts-Builders & stonecutters - Coles on Rectification of

88 ——— 90 ——— 3'00 ———

Coles on earthwork ——— 8'00 ———

(2) Torrapiadu Extension

The earth work of this Bund is nearly completed on an average 400 Coles have been daily engaged. The Rectification will be taken up as soon as a satisfactory tender has been received.

On the whole though matters have improved somewhat during the past month the rate of progress of the contractors is far from what it should be. It is satisfactory however to be able to report that the quality of the work in general is much improved.

improved, and in fact is as good as can be desired.

The earth work is carefully made up in layers, water used to consolidate it, all punctures, the old earth cut out in other turned up and matted.

The Rectification is properly squared and well laid, the graveling well packed, and the full amount of puddle laid in, and all spoil banks are neatly laid up by means of strong sections.

Head Quarters Works Office
Red Hills
4th April 1868

Asst. Secy
Capt. R. L.

Executive Engineer to the Works

N^o 126
Forwarded to the Chief Engineer
of Irrigation for information.

Sup^{ts} of Works
Chadras
6 April 1868

Submitted to Government who will doubtless be glad to learn that the quality of the work and especially of the earthwork at the Red Hills and Cholanur Tanks has been much improved since the date of the last report (7th January 1868) - There

W. B. Wood, Esq.
No. 1319.
The Supl. Engineer
1st Division.

To
The Chief Engineer
for Transportation
dated April 1868
Recd. D. April 1868

No. 126.
No. 1363-22 May 1868
Forwarding for information
a Report from the Executive
Engineer, Machus Water
Works showing the state of
progress of the Machus
Water back up to 31st
March 1868

1868
Recorded

No. 32-33
2.17.54 April 1868 A.M.
2558