

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1807	Press Mis.
633-34. Dated	29-6-	1868.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Revenue Department,
29th June 1868.*

No. 633. Read the following Proceedings of the Madras Government in the
Public Works Department :—

Communicating to Superintending Engineer, 4th
Division, letter from the Chief Engineer for
Irrigation, reporting on the works in progress between the Cortilliar and Red Hill Tank in
Madras District. (Here enter 23rd June 1868, No. 2,001.)

No. 634. ORDER THEREON, 29th June 1868, No. 1,807.

Irrigation, No. 15.

Communicated to the Revenue Board.

(True Extract.)

(Signed) H. SEWELL,
Acting Under Secretary to Government.

To the Board of Revenue, with Proceedings Public Works Department, No. 2,001.

Exd. S. T. Augustin.

No. 568. Read the following letter from the Chief Engineer for Irrigation, to the Secretary to Government, Public Works Department, dated Fort St. George, 13th June 1868 :—

1. Having recently been engaged with the Superintending Engineer of the 4th Division in inspecting the works in progress between the Cortilliar and Red Hill tank, I have the honor to submit the following report of their condition for the information of Government.

2. *Cortilliar Anicut.*—Floor finished. Body wall for half of the length raised to the full height required for the current year, viz., 3 feet, 6 inches the remainder 2 feet 4 inches. Under sluice of eight vents raised 3 feet, wing-walls raised to a height of 6 feet on the north side of the river, and 3 feet on the south : connecting wall between anicut and head sluice the same.

3. *Head sluice.*—Foundation and floor all completed : piers and wings carried up to a height of 3 feet.

The workmanship of the anicut and head sluice is good, and the rate of progress, though it has not been rapid, is sufficient to meet the requirements of the coming season.

4. *Channel from Cortilliar to Cholaveram Tank.*—A good deal of soil has been washed down from the slopes, and by gullies formed by the drainages. This will have to be cleared out, but in other respects the earthwork of the channel may be regarded as almost completed to the width (30 feet) provided for in the estimate. A portion, 100 feet in length, has been left in rear of the head sluice, until the time arrives for throwing in a supply. Division channel from Boosykal completed, and 9/10' of the earthwork of bund across the old channel.

5. Of the masonry works, five bridges are in progress, of which three have foundations completed and superstructure raised 2 feet to 3 feet above the floor ; and the other two have concrete for foundations laid. Of nine drainage inlets marked out for construction, one has foundations laid up to bed of channel, three excavations for foundation completed, and five are untouched.

6. *Outlet for Boosykal surplus drainage.*—Excavation for foundations completed and materials collected.

7. Both the Superintending Engineer and myself are of opinion that the progress of the bridges and the drainage works is extremely unsatisfactory. The Contractors (nominally Messrs. Horgan & Co.) who have been entrusted with their execution, originally engaged to construct the whole of the masonry works contained in the project at certain rates which were approved of by the Superintending Engineer, but finding themselves unequal to the prosecution of works on so large a scale, they applied for permission to relinquish all those which were beyond the terminus of the supply channel from the Cortilliar to Cholaveram tank. The rates were high, and the Executive Engineer properly rejected a quantity of indifferent laterite which the Contractors had brought to the site of the works, and insisted on their drawing their supply from a quarry selected by him, or at least on their producing material equal to what could be procured there. This has occasioned delay, and it may also be questioned if the Contractors have means to push on with the works very rapidly. As some of their masons will shortly be set free from the anicut, it is to be hoped that some improvement will then set in.

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Such work as they have executed is of good quality, and it is not desirable to break with them, if it can be avoided. If, however, Captain Scott should not be able in the course of another month to expedite the rate of progress on the bridges and drainage works, I consider that the Contractors should be limited to such of them, within a mile or two of the anicut, as they shall then appear to be capable of conducting efficiently.

8. *Cholaveram Tank.*—Of the whole length of revetment, about 7,500 yards, 5,000 have been raised to a height of 15 feet above present calingulah crest, and the whole has been raised to an average height of 3 feet above that level, or as much below the proposed level of tank water during the ensuing monsoon. 1,400 tank diggers are at work raising the earthwork of the bund, which is progressing rapidly.

9. Since my report, dated 9th January 1868, a very great improvement has been effected in the mode of forming the new bund; the earth being placed in layers and carefully sectioned, as well as being rammed and watered.

10. The revetment has been at a stand still for some weeks in consequence of the Contractor having failed. Captain Scott has now taken the work into his own hands, and 149 workmen are employed at a quarry, at $2\frac{3}{4}$ miles distance from the centre of the work, who turn out 37 cubic yards of squared stone per diem. There is a great difficulty, however, in obtaining carts, now that cattle are required for ploughing. Every effort should nevertheless be made to prevent any serious check to the progress of the revetment, as a vast amount of work still remains to be done.

11. *Head Sluice* to supply channel leading from Cholaveram to Red Hill tank, foundations in part built, proceeding satisfactorily, material collected on the ground.

12. *Channel between tanks* nearly completed, 650 tank diggers at work. The excavation has to be carried through gravel and in some places through solid laterite, for removing which 40 lbs. of powder are expended daily.

13. *Red Hill tank.*—One-third of the bund raised to its ultimate level, and the remainder to 15 feet above old calingulah or 6 feet below ultimate level. Further raising suspended till after rains. The execution of the earthwork is very good. Revetment is in progress, and has been raised to the average height of 9 feet above old calingulah crest or three feet above contemplated level of water during next monsoon. This may be pronounced satisfactory.

14. *Irrigation sluices.*—Excavation for foundations nearly completed, ring-bunds raised in part and material collected. Captain Scott is alive to the necessity of proceeding with these works with all possible despatch.

No. 569.

ORDER THEREON, 23rd June 1868, No. 2,001.

IRRIGATION, No. 28.

1. Communicated to the Superintending Engineer of the 4th Division in continuation of Proceedings No. 255, dated 24th January 1868.

2. The Government regret to observe from this report that very unsatisfactory progress is being made with the bridges and drainage works connected with

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the channel from the Cortilliar to the Cholaveram tank. They approve of the recommendations which Colonel Anderson makes in paragraph 7 to ensure the expeditious prosecution of these works, and the Superintending Engineer will issue the necessary instructions to the Executive Officer for giving effect to them.

3. It is hoped that the measures taken by Captain Scott for the better supply of stone for the revetment of the Cholaveram tank will ensure the more speedy progress of that very important part of the work.

4. His Excellency in Council is glad to find that with the exceptions just noticed, the works are progressing favorably.

(True Extract.)



Colonel, R. E.,

Secretary to Government.

To the Superintending Engineer, 4th Division.
" Revenue Department

Exd. S. T. Augustin.

1. Term 1868. Appl.
to one of judges since
July 27, 1871.

Proceedings of the
Court of Probates

Disbursed 23rd } June
 Received 26th } 1868.
 8th 2001.

24th 1809. 29 June

Oct 1894. 29 & were
concurrent with the
first Eng & American
letter from the first
Engineer for investigation
reporting on the deaths
and disagreements between
the British and
American and the
Marine British
with the

24-1899

Comd to the
Nevada Board

29 June '68

in Epine to the Red House with the Rev. Mr. B. on 20th Dec 1809

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