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MADRAS RECORD OFFICE

Government of Madras

Public works.

DEPARTMENT

G.O. No.	1868	Press
B.P. No.		Mis.
213-215		
Dated	11-7-1874	195 .

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
11th July 1874.*

Read the following papers :—

• No. 409.

No. 213.

MEMORANDUM.

THE accompanying report from Major Beatty, District Engineer, Godavery, is submitted to Government for information, with reference to the information therein contained on the scour which took place during the freshes of 1873 in rear of a portion of the Muddoor section of the anicut, causing some damage to the outer or rough stone apron. It will be seen from the tracing that the scour

cleared out the sandy bed to a great depth. The instructions* sent to the District Engineer, and the previous correspondence are also submitted.

2. It was not known at the time of my visit to the Godavery in October November 1873, that any action on the bed of the river beyond such as takes place somewhere almost every season had occurred, but it seems probable that it commenced in 1872, as the chart of 1873 indicates a considerable change in the state of the bed below this part of the anicut.

OOTACAMUND,
15th June 1874.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 214. From Major J. BEATTY, R.E., District Engineer, Godavery, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Dowlaishweram, 30th May 1874, No. 674 :—

IN assuming charge of the district the present state of the anicut is a matter which has naturally received my special attention, and I have carefully perused your memoranda, Nos. 263 and 308A, of 4th ultimo and 4th instant, respectively. I regret to have to inform you that I see much reason for anxiety regarding the safety of the Muddoor branch of the anicut during the coming freshes.

2. You will remember that a hole first began to form in rear of the eastern end of the apron of the Muddoor anicut in the freshes of 1872-73, and that in the floods of last year it enlarged to an alarming extent, swallowed up most of the loose stone apron near it, and threatened to undermine the anicut itself.

3. This is adverted to in the 4th paragraph of your memorandum, No. 263, of 4th ultimo, where you observe that you were glad to learn that the hole in question had been attended to, but note that no soundings or levels of the locality had been furnished to you. I have, therefore, now the honour to send you tracings showing the present condition of the hole in question, and the changes that have taken place of late years in the river lunkas near that portion of the anicut.

4. The hole was so very large that it was judged impracticable and inexpedient to attempt filling it up entirely. What has been done is the filling in with stone and sand of the northern slope of the hole where the river had eaten back into the lower apron of the anicut, and the re-forming of the apron itself with well-packed stone. Filling in with sand along the lower edge of the apron has also been pushed on, but with no hope of getting the pit itself materially reduced in size. It still forms a huge basin with a maximum depth of 58 feet.

5. Six hanging groynes of stone have also been run out at the foot of the loose stone apron; and a new groyne is in progress on the Bobberlunka bank of the river, about 500 yards above the anicut. A channel has also been cut in the sandy bed of the river parallel to the left bank at P.F., in the hope that the river may again open for itself a deep channel in that direction.

See Plan.

6. The additional work that I have put in hand, since taking charge, is a line of piles along the foot of the lower apron, with a view to check, if possible, the tendency of the overflow (in the first low freshes, before the bed of the river below becomes well filled) to cut into the apron. I have also ordered three floating groynes to be thrown across the whole, with the view of endeavouring to prevent eddies forming in it; these floating groynes to consist each of a line of trees fastened together by ropes, attached at either extremity to box anchors.

7. Your observation that "local rather than distant shoals are the cause of the want of directness of approach to the Muddoor anicut of the main body of water discharged over it," appears to me to be perfectly correct, and that the future safety of the Muddoor anicut must be secured rather by attending to the local shoals, checking the changes that the river has been working out for itself in the last few years in the Muddoor and Bobberlunka shoals, and restoring the condition of safety which existed a few years back, and improving upon it.

8. In particular the river has opened out for itself a new channel on the line A A A, which did not exist in 1871, while the old channel B-B-B is fast closing, and the shoal C-C has been extending itself in the direction of the anicut. To this I attribute much of the mischief, and I am now making an attempt to stop it by a bund across the new channel at M-N, and a cutting at the head of the old channel at O-P.

9. In paragraph 3 of your memorandum, No. 263, you observe, that "when the chart" of the river "is ready, the whole subject will be more fully considered." The out-door work of the survey has been completed, the soundings are now in progress, and will occupy another fortnight, and as soon as the new chart of the river is completed a copy will be prepared and sent to you.

10. The only other portion of the anicut works that has lately been causing any anxiety is the Bobberlunka under-sluices, the apron of which was badly damaged by last year's freshes; but the works undertaken for the purpose of restoring and strengthening that apron are now so well advanced towards completion that I consider there is no longer any ground for alarm in that quarter. The Vijaishweram and Rallee anicuts are believed to be now in a particularly safe state, and the condition of the Dowlaishweram anicut very greatly improved; while it is found that certain special repairs carried out last year to the Dowlaishweram under-sluices have stood remarkably well, and put that part of the works in a condition of security the reverse of all previous experience there.

11. I have directed the Executive Engineer to have the gauges, ordered in paragraph 5 of your memorandum, set up at once, so that the registration may be commenced as early as possible in the season of freshes now approaching.

12. I have also requested him to make arrangements for commencing the construction of groynes in front of the anicut, as ordered in paragraph 4 of your Memorandum No. 308-A. The freshes, however, may be expected any time between the 9th and 20th proximo, and during that period very little work of that description will be practicable, owing to the danger to boats approaching the anicut. A few groynes may, however, be constructed before the freshes, and preparations made for pushing on with the work when the state of the river admits.

No. 215.

ORDER THEREON, 11th July 1874, No. 1,868.

IRRIGATION, No. 20.

ORDERED to be recorded.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

To the Chief Engineer for Irrigation.
,, District Engineer, Godavery.

Exd. S. T. Austin.

Spare Copies

N 409.

Memorandum

The accompanying report from Major Beatty, District Engineer, Godavery, is submitted to Government for information, with reference to the information therein contained on the scour which took place during the freshes of 1873 in rear of a portion of the muddur section of the a-mint, causing some damage to the miter or rough stone apron. It will be seen from the tracing that the scour cleared out the sandy bed to a great depth. The instructions sent to the District Engineer, and the previous correspondence are also submitted.

Telegram,
memo dated
13 Instant.

2. It was not known at the time of my visit to the Godavery in October - November 1873 that

that any action on the bed of
the river beyond such as takes
place somewhere almost every
season had occurred, but
it seems probable that it
commenced in 1872 as the
chart of 1873 indicates
a considerable change in
the state of the bed be-
low this part of the
ancient.

Ostacannady John Mullins. Lt Col R. E.
15 June 1894

Chief Engr for Irrigation

To The Secretary to Govt. M. & A.

P. M. 1874 Dept
No: 3905

From

The Chief Engr.

for Irrigation.

Del 15th June 1894 }
Rd 26th — " — }

E. G.

G. O. No: 1868. 11-7-74.

Note on the
report regarding
the scour ^{veg} near
the Maddoor An-
-icut in the Godavery
District.

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No 308

unit

214 14th St
No 308

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Record

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Present all the
medical Science
up to the day
of

To the Chief Constable for Surrey
with 6 Cues. & put off paper
to D.E. Goddard
I. Caprio despatched 16/7/71

213-215

Case 20/6/71, Rtd 23/6/71

3905

Govt. of 1874 Madras.
PUBLIC WORKS.

To
The Chief Engineer
for Irrigation

Dated

Recd.

Encl.

G. O. 11 July 1874, No. 1868

Nos. 2/3-2/5.

Muddoor Amicut

Note by Chief Engineer for
irrigation in the report re-
specting the scour &c near
the Muddoor Amicut in
Bedavery District, recorded