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(2) Date of repair 23-5-38
(3) Initials of the Referencer 7

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Can - 10/6/57

G.O. No. *7350*

Press
Mis.

4344

Dated

3-6-1957

Not to be folded or roughly handled

23/5/38

*Proceedings of the Madras Government Public Works Department,
from 1st to 10th June 1859.*

No. 43. Read the following letter from Lieutenant-Colonel H. YULE, Secretary to the Government of India; to J. D. BOURDILLON, Esq., Secretary to the Government of Madras, dated Fort William, 25th April 1859, No. 2540.

In reply to your letter No. 1683 of 21st August last and in continuation of paragraph 2 of Major Strachey's letter No. 5943 of 27th November last, I am directed to request that a longitudinal section of the bed of the Pennair river may be furnished for the information of the Government of India, extending from two or three miles above the site of the Annicut to at least four miles below it.

2. The slope of the Pennair where this Annicut is established, so far as can be judged from the fragmentary section received, appears to be very considerably greater than that of the great Madras rivers on which Annicuts have been established heretofore.

3. The establishment of weirs on rivers of sandy bed and rapid slope has been found, in the experience of our Engineers in the North-Western Provinces, to be attended with peculiar effects.

4. In the case of the Muskurra, a river which crosses the Eastern Jumna Canal, and the slope of which closely corresponds with that of the Pennair as given in the section, the dam was originally established with its crest $4\frac{1}{2}$ feet above the bed of the river. Year after year successive steps worked back on the tail of the dam and were met by successive extensions of the work, till at length the old dam appeared to be upwards of 20 feet above the modified bed of the river on the down stream side. Ultimately a succession of rough dams was established below to regulate the tail slope of the bed; and the retrogression of levels then ceased.

5. It does not appear, from the papers accompanying your letter of August last, that any retrogression of levels had taken place on the Pennair in consequence of the establishment of the Annicut. The Engineers of the Canal Department, N. W. P., however, anticipate that such an effect (though it does not appear in the low sloped rivers on which the larger Annicuts of the Madras Presidency have been established) will appear on the Pennair when the Annicut shall have been established and maintained intact for two or three years.

No. 44. Ordered in consequence that the following letter be despatched.

From J. D. BOURDILLON, Esq., Secretary to the Government of Fort Saint George; to Lieutenant-Colonel H. YULE, Secretary to the Government of India, dated 3rd June 1859, No. 1350.

I am directed to acknowledge your letter of the 25th April No. 2540.

2. Subsequently to the date of that letter you will have received mine of the 14th Ultimo, No. 1159, enclosing a number of papers illustrative of the breaching of the Pennair Annicut and of the means adopted for its restoration. Among those papers is a Report* by Colonel A. Cotton which contains full information as to the character of the River, the position of the Annicut and other circumstances. The "History" of the work also among the papers, contains (Para. 1) a Plan of the River at the site of the Annicut.

3. It will be seen that the fall of the River bed is three feet a mile. That of the Palar is eight feet a mile, and yet no symptoms have appeared below the Annicut on that River, of such an action on the bed as your letter anticipates. Nor has any such been noticed at Bezwadah; where though the slope of the bed is small, the velocity of the stream is enormous in consequence of the narrowness of the gorge at which the Dam is constructed.

information.

Copy 26. 1/2
to Capt. 1/2

P.W. Department

N^o 1350.

1250

To

Lieut^{nt} Colonel A. Yule

Secretary to the Gov^t of
India

Sir,

I am directed to
acknowledge your letter
of the 25th Ultimo N^o 2540.
2 Subsequently to the
date of that letter you
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G
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31 March 1890

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is small, bed ~~does not exceed~~ feet ~~making~~ the velocity of the stream is enormous in consequence of the narrowness of the gorge at which the dam is constructed. —

J.A.

Fort St. George
3^d June 189-

Com 24th Sept / 1878. 3755
11th Aug 1878

Copy in a letter to E.
of 23rd Nov 1879. 1568

Public Works 1879 Sept 14th
Que. 10th June.

24. 1878.

To the Secretary to the
Government of India.
27. 3. 1879

From 20th July 1879 to 1st
20th Aug 1879. 1879
No. 12 Aug 1879. 1879.

Opening certain
explanations regarding
the action of the current
on the domain streets.

24. 3. 1879.