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*Proceedings of the Madras Government, Public Works Department,
4th October 1873.*

No. 78. Read the following endorsement of the Chief Engineer for Irrigation, dated Camp at Erode, 8th September 1873, No. 37 :—

From J. H. LATHAM, Esq., Chief Engineer and Manager of the Madras Irrigation and Canal Company Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, Public Works Department, dated Kurnool, 29th August 1873, No. 152.

I HAVE the honour to hand you report on the Upper and Lower Sections of the Canal for the month of July 1873.

REPORT ON UPPER DIVISION FOR THE MONTH OF JULY 1873.

THE delay caused by the repair of excessive leaks, which occurred about bed level, within a length of about 50 in the south (or upper) bank close below the Kaderabagh Aqueduct, was the delay which occurred to the passage of water down the canal. On the 5th roombuddra water reached the tail sluices in the 75th mile and passed into ali river.

2. The enlargement of calingula this season is complete, including Nos. 1, 18, 19A, 20 in the first three sections and Nos. 1 and 2 in the fourth section.

3. The following villages have surveyed this month and completely reticulated, and copies supplied to the seers for the immediate construction of all except the smallest size of field ls, which are not to be constructed except to supply demand :—

Veraporam.	Patake
Muchmorri.	Pagao
Vellala.	Morav
Palmarri.	diff
Beravool.	Gur
Tatipad.	Bol

t, omitting some parts
access and partially.

The demand hitherto is for 1,633½ ac one the applications in July being for 84,132. As only three Amins have been at work on the average, one having been ill, and one having to be withdrawn for preliminary training, this gives about 11 acres a day for each Amin. Though this is small, my impression is that the Amins have not been idle; so much time has been required for explanations and ascertaining the boundaries and has been lost by the delay or vacillation of villagers.

4. Besides the above, some Currums have received applications. Probably 4,000 acres will be cultivated with first crop this season, but this is uncertain. This estimate is a deduction from the small number of applications yet received from some villages which usually cultivate extensively, as—

Villages.	Cultivated, 1872-73.	Applied for, 1873-74.
	ACRES.	ACRES.
Gopalasingavaram	121·81	4·84
Niduzur	223·91	11·02
Mangalpad	89·10	20·70
Momedelapad	91·86	1·50
Kullur	435·41	259·64
Total...	962·09	297·64

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in which villages, apparently, applications have yet been made only for new fields, or fields requiring measurement or channels, and the increase in some others, as—

Gonapavaram	...	97-11	245-77
Jutur	...	33-75	92-84

5. In the 5th and 6th Sections there has hardly been time for applications since the arrival of the water at the end of the month, and applications are arriving daily.

6. The rainfall has been unusually scanty, only 1-75 inches in the month at Kurnool and 3-72 at Jupaud. The canal is now in good order.

7. The conduct of the staff has been good with scarcely an exception; but the general health has not been good, and the field-work in the showery weather and damp ground has caused a good deal of fever amongst the staff.

A table of rainfall accompanies the report.

KURNOOL,
4th August 1873.

(Signed) J. H. LATHAM,
For Conservancy Engineer.

P.S.—I enclose the report of T. Anniappa Moodeliar, Surveyor in charge of the 4th and 5th Ranges, just received. It gives a good idea of the work going on and the way it is being done.

REPORT ON LOWER SECTION OF THE MONTH OF JULY 1873.

M. Canal.

The works of repair needed after last season are now all completed, except some earthwork in the 9th Section bank and the Pennair flood bank which is very nearly done.

2. The Byup Goodoor Bridge has been widened, and Calingulah No. 6A, which has been delayed by the continued illness of the contractor, will soon be finished. On the 6th of the month a breach took place on the 10th Section near the Punka Wunka Aqueduct on the canal water having found its way under the bank through a stratum of sand; it was, however, quickly repaired and water let down the section again on the 9th.

Distribution Channels.

3. The bankers have been chiefly employed throughout the month in clearing out silt from the main channels and repairing the masonry dams and overflows; they are now all in good working order. Many new and subsidiary and field channels have been made to meet demands for irrigation from villages not previously supplied, and a new sluice has been built in the Main Canal to supply the villages of Bakapooram and Cotaloor, under which I expect over 200 acres of paddy this season.

4. The Toombuddra water did not enter the 7th Section at Jutoor until the 27th July, and by the end of the month it had only reached the 134th mile, having still eleven miles to fill before entering the 9th Section.

5. The Caulee throughout the month was never sufficiently high at Jutoor head sluices to send more than 9 inches of water down the canal, which did not penetrate beyond the 98th mile.

6. The Koond river was in flood on the 3rd of the month, and nearly 2 feet of water was passed down from the back No. 1 in the 172nd mile, but the fresh soon subsided and by the 21st the canal from Jutoor to the Pennair was dry again. A second fresh on the 20th of 1½ feet of water to pass down as far as

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the 168th mile, but by the 29th all was dry again, and it was 2nd of August that it was once more full.

7. The Pennair was also very uncertain in its supply, so that for a month no water was supplied beyond the Jutoor Channel, but by the end of the month it was again as far as the Canal head, and will now, I hope, keep up a constant supply.

Irrigation.

8. I have given the above full account in manner in which the supply of water alternated in the canal, as the lateness of its arrival and the uncertainty of its continuance has had a considerable effect on the demands for irrigation. The ryots do not like to apply for water or to commence preparing their fields for paddy until they see the water in the canal and running down their channels, and the supply having during this month twice failed has greatly shaken their faith in its permanence.

9. Last year the water from the Caulee and Koond filled the canal from Jutoor to the end of the 9th Section by the 18th of June, and remained permanently until the end of the season. The Pennair also in flood continuously, and the supply to the 10th Section was abundant.

10. Now that we have the Toombuddra water in the 9th Section, I do not fear any more deficiency of supply to these sections, and though my anticipations of a large increase of irrigation as stated in my last report are somewhat less sanguine, yet I still hope to show a very considerable increase on last season's returns.

11. The actual amount of applications received up to the end of July are for full water (paddy) 515 acres and for flood 225 acres, but since the commencement of this month the full supply of water the canal is causing applications to come in much more rapidly.

12. No rain fell between the 3rd and 28th, a most unusual draught on the 28th), a most unusual draught supply from the Caulee and Koond want of rain and fears of a famine between the 2nd and 4th of this month. The total rainfall in July was only 1-24 inches.

DHOOR,
6th August 1873.

Abstract showing the amount of Crop and Flooding.

Names of Taluq.	FULL CROP.					
	Extent.		Demand.		E.	
	A.	C.	RS.	A.	P.	A.
Nundial	219	30	650	5	4	
Koilkentla	199	54	1,110	2	8	
Sirwell	770	88	3,389	0	8	
Prodatore	570	40	3,489	1	2	48
Cuddapah	1,585	18	9,851	10	6	88
Grand Total.	3,345	30	18,490	4	4	1,57

DHOOR,

21st August 1873.

Names of Taluq.	CROP AND FLOODING.					
	Demand.		Extent.		TOTAL.	
	RS.	A.	P.	A.	C.	RS.
Nundial	5	6	3	224	69	655
Koilkentla	34	12	5	224	20	1,144
Sirwell	254	7	7	952	8	3,643
Prodatore	989	15	4	1,054	10	4,479
Cuddapah	2,920	11	3	2,469	26	12,772
Grand Total.	4,205	4	10	4,924	33	22,695

(Signed) A. J. DODSON,
Conservancy Engineer.

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SUB to Government. It will be seen that up to the end of July the
applied for water-supply were for a very small area, viz. :—

In Upper Division or Sections, including the first 92 miles of	Acres.
the Main Canal	1,633½
Lower Sections	515
	2,148½

in addition to which, in the lower sections, water for flooding 225 acres had been applied for.

2. The freshes in most of the principal rivers of this Presidency were late and slight, and the Toombuddra had but little water in it until two or three weeks after the usual time. When the report for August therefore is received, more will be known of the prospects of irrigation under the Company's Canal for the current season.

3. A statement appended to the report of the Chief Engineer for 1872-73 in the lower sections for and from this it appears that in the year 1872-73 3,345 acres and flooding to 1,570 acres had been supplied to
(Signed

of Engineer's report gives the irrigation village and a summary for each taluq, year regular irrigation was supplied to

MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 79. ORDER THEREON,

IRRIGATION, No. 5.

the prospects of irrigation under the

October 1873, No. 2,443.

THE Government will await the report for August, which they hope will contain a more encouraging account of the prospects of irrigation under the Company's Canal for the current season.

Walker Colonel, R.E.,
Secretary to Government.

To the Chief Engineer and Manager of
.. Chief Engineer for Irrigation.
.. Revenue Department.
.. Board of Revenue.

.. Irrigation and Canal Company.

Exd. E. C. Shunker.

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PUBLIC WORKS.

THE CHIEF ENGINEER AND MANAGER

OF THE M. I. AND C. COMPY.

&c., &c., &c.

Dated October 4th.

Recd. — " — 10/3 1873 Encl.

G. O., 4th October 1873, No. 2,443.

OCTOBER

NO. 78-79

Madras Irrigation and Canal Company's
Canal.—Passing orders on report on the
Madras Irrigation and Canal Company's
Canal for July 1873.

No 47

Recd
9 Oct 73