

*Proceedings of the Madras Government, Public Works Department,
11th August 1875.*

No. 196. Read the following endorsement of the Officiating Chief Engineer, Public Works Department, dated Ootacamund, 2nd August 1875, No. 35 :—

From A. J. DODSON, Esq., Manager and Acting Chief Engineer, Madras Irrigation and Canal Company, to Major J. O. HASTED, R.E., Officiating Chief Engineer for Irrigation, dated Kurnool, 21st July 1875, No. 82.

I HAVE the honor to forward, per book post, copies of the Upper and Lower Divisions Reports, together with my own for the month of June 1875.

MADRAS IRRIGATION AND CANAL COMPANY.

UPPER DIVISION.

Monthly Report for June 1875.

WATER was let in on the 24th at 10 A.M., as the silt and rushes were reported to be entirely completed. It reached Kurnool in the evening, but was not allowed to continue beyond Kadrabagh aqueduct owing to some puddle work which the contractor had failed to complete in time. This work was ready for water on the 30th and the water was accordingly passed on. On the 28th a small leak occurred at Yeddaroor, but was immediately stopped.

2. Water did not reach Poodoor till the 3rd of July, when a small leak occurred at Kadrabagh and another in the 10th mile, both were soon stopped and $4\frac{1}{2}$ feet of water again let into the canal. In a few days it will reach the Caulee at Lockinsula, as the large tanks are very full.

3. The weather has been extremely dry; a few showers of rain have fallen, but they were very partial. If the rain keeps off much longer, there will be a great demand for water.

4. Repairs are now all completed as far as Lockinsula; this does not include works which can be carried on when the water is in the canal, such as raising banks, &c., but the unexpected large amount of money spent on the silt excavation leaves very little for further operations this year, and the repairs to the 6th section locks must partly stand over, or fresh sanction must be obtained.

5. I enclose a table showing the totals of irrigation for each taluq in my division for last season. The figures here given are nearly correct, but the official reply concerning certain cases sent in for the decision of Government has not yet been received.

6. It will be seen that the acreage is nearly the same as that of last year. There was a falling off in second crops. The average* amount to be realized per acre is much less than that of last year. This is due almost entirely to the progressive rates. As far as can be seen at present, these rates are a failure.

First.—They cause discontent among the first irrigators, who complain that they ought equally to benefit by the reduction.

Second.—The note fails to induce ryots to sow paddy in the profitable way as was intended, I believe, at the original meeting to make the rules. On the contrary it has drifted into allowing the rate for *all new* land, provided the ryot scratches together a little earth on the outside of his field which is called bunding. Levelling has quite been ignored. In consequence of this, in many villages the ryots intend to take new lands and give up the old irrigated fields, so as to have the benefit of the reduced rate. Several ryots abstained from irrigation last year. I believe this was with the idea of getting the rate of Rupees 3 for this year.

Third.—The opportunities for evading the proper rates will be very great, as the onus of proving any statement to be false lies entirely with the Company's staff, and complications in the settlement accounts, which this new arrangement has introduced, have doubled the work of all concerned in the settlement.

Notwithstanding all these drawbacks, I see no good result in any way. The ryots will continually be changing from field to field, and require fresh sets of channels without any corre-

* NOTE.—The average revenue per acre irrigated is for 1873-74 Rupees 4-15-5, and for 1874-75 Rupees 3-14-7, or nearly one-fifth less.

*Proceedings of the Madras Government, Public Works Department,
11th August 1875.*

sponding increase in the total irrigation. The revenue will be very considerably reduced without any advantage accruing in other ways.

7. Another disagreeable feature of this new arrangement is, that the ryots are more and more led to believe that they will have still further reductions if they hold out. There is a report flying about, said to have come from the Government Cutcheries, that the rate of Rupees 6 is to be altered to Rupees 5. So little did the ryots seem to care for the remissions that scarcely a village reddy appeared in the Nundicotkoor taluq, and only a very few ryots came to give evidence in the cases requiring it.

8. New forms of tickets are being prepared and will be shortly issued to the Overseers and Ameens. Some improvements in the form have been made, as also in the record books of the Overseers. This will, it is hoped, facilitate the work at the settlement, which was extremely heavy this year.

9. The health of the staff has been fair.

10. The usual forms accompany this report.

The staff were paid from 3rd to 11th June 1875.

Abstract of Irrigation Accounts for Season 1874-75, Fash 1284.

Taluqs.	Total Area.	Total Amount of Water-rate.	Remission.	Net Demand.
		RS. A. P.	RS. A. P.	RS. A. P.
Ramalakottah	1,151 15	5,645 10 0	480 3 6	5,165 6 6
Nundicotkoor	3,263 58	13,074 5 0	335 9 2	12,738 11 10
Nundial (portion)	450 85	1,271 11 5	119 10 0	1,152 1 5
Grand Total	4,865 58	19,991 10 5	965 6 8	19,029 3 9

KURNOOL,
10th July 1875.

(Signed) C. H. WILKS,
Conservancy Engineer.

LOWER DIVISION.

Report for the Month of June 1875

THE Main canal having been dry during this month, the works of repair have been pushed on rapidly so as to secure their being all properly completed before the water from the Upper Division should again reach the Canals.

The aicut at Jutoor and all its lead works have been put into thorough repair, and the extra works necessary to secure safety to the Main canal from such floods as those of last year (caused by the bursting of Government tanks) have been completed. they consist of two small extra flood calingulahs in the 93rd and 99th miles and No. 9-A calingulah in the 96th mile, consisting of twenty openings of 8 feet each; also several culverts under the canal have had their outlets cleared and lowered so as to make them more efficient.

In the 8th section all the locks have been put into thorough repair, and only need a few decayed janglewood balance beams to be replaced by plank ones, to make them in all respects ready for navigation. And several works of protection against floods, such as diverting nullas from cutting into the of tanks, revetment to water tanks, &c., are in progress and will soon be completed. Between Rajoly lead sluices and Sollymulla, many silt tanks have been removed which impeded the passage of water, and the whole bed of the canal has been cleared of rocks and stones rising above normal bed level.

In the 9th section works of a similar nature have been carried on as far as the Pennair, and all the locks carefully repaired.

*Proceedings of the Madras Government, Public Works Department,
11th August 1875.*

Beempaud bridge is only waiting for the completion of the centres when the arch will soon be turned. Much delay with the centres has been caused by the difficulty of getting skilled carpenters, but I hope all will be finished by the middle of July. In the 10th section the silt has all been removed from the first 3 miles so as to leave a clear passage for the water 36 feet wide, and the masonry works and banks have been put into good repair.

Distribution.

All the main distribution channels and their masonry works have been put into thorough repair, and many additional road bridges, calingulahs, dams and sluices have been built or are in progress, and silt has been excavated to a large amount.

The aqueduct over a bye-wash of the Pennair to carry an extension of the Chennai channel across to the village of Goorumpaud has been commenced, and will, I hope, be completed in time for the first crops sown in August; this work will open an entirely new district for irrigation.

As far as we can judge at present, the uncommon dryness of the weather makes it very probable that we shall have a large increase in the wet crops during the approaching season, for it is certain that in many villages the ryots have been unable to plant their usual dry crops from want of rain, and are in consequence preparing their fields for paddy, and are eagerly asking when the water will reappear in the lower sections.

General.

On the 8th instant I left Dhooor to join Mr. Latham, Chief Engineer, at Cuddapah, and accompanied him to Kurnool, where on the 15th instant he made over to me the duties of Manager and Acting Chief Engineer during his absence on sick leave, but though necessarily now residing in Kurnool I continue to act as Conservancy Engineer for the Lower Division, with Mr. Dumphy as my Assistant.

The rainfall during the month has been less than it has been for many years, and up to date the very few showers which have fallen have been partial and slight.

KURNOOL,
9th July 1875.

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

Acting Chief Engineer's Report to accompany the Divisional Reports for June 1875.

WATER was admitted into the canal at Soonkesala on the 24th of June, and owing to a passage having been cleared through the silt and all the reeds having been cut away, it reached Kurnool in nine hours, and by the end of the month had reached the 25th mile, although its progress had twice to be checked owing to some slight leaks, due to sun-cracks just at water-level.

Unfortunately I am still unable to give the total amount of irrigation during the past season owing to the neglect of the Revenue authorities in the Cuddapah taluq, who have not yet sent in the applications for water in several villages, and the settlement cannot commence until all the village accounts have been made up. In the Upper Division Mr. Wilks reports that the acreage which was irrigated was nearly the same as that of last season (1873-74); but that, owing to the reduction of the rates, the revenue is on the average one-fifth or 20 per cent. less than that of the previous year. No doubt this decrease is due to the reduction of the rates sanctioned in the new rules, but it does not follow that this will be a permanent decrease of revenue per acre; for, if the same fields are planted with paddy again they will pay Rupees 4 per acre, an increase of 33 per cent., and now that the ryots are allowed to apply to the Company's Overseers for tickets, I anticipate a considerable increase in the amount of acres irrigated and, consequently, with the increased rates of revenue to be realized.

The departure of Mr. Latham to England on sick leave, my having to undertake new duties and the alterations necessary in the arrangement of staff have caused some delay in the progress of general work, but I hope now all will go on without further delay or difficulty.

The usual table of rainfall accompanies this report.

KURNOOL,
20th July 1875.

(Signed) A. J. DODSON,
Manager and Acting Chief Engineer.

*Proceedings of the Madras Government, Public Works Department,
11th August 1875.*

*Register of Rain-fall in Inches and Decimals of the following Stations during the Month of June 1875
at 6 A.M. daily:—*

Month and Date.	Soonkesala.	Kurnool.	Velapnoor.	Jutoor.	Ayaloor.	Chinta- coonta.	Dhoor.	Remarks.
1st June 1875 ...	...	...	1.20	...	...	0.26	...	
2nd do. ...	...	...	...	...	...	...	...	
3rd do. ...	...	...	...	...	...	...	...	
4th do. ...	...	...	...	...	...	...	...	
5th do. ...	0.40	0.11	...	...	...	0.03	...	
6th do. ...	...	...	1.20	0.05	...	...	...	
7th do. ...	...	...	...	0.45	...	0.10	...	
8th do. ...	0.90	0.11	...	...	...	...	...	
9th do. ...	...	...	...	...	...	0.12	0.56	
10th do. ...	...	0.05	0.30	...	...	...	1.42	
11th do. ...	...	...	...	...	...	...	...	
12th do. ...	...	...	...	...	...	...	...	
13th do. ...	...	...	...	...	...	...	...	
14th do. ...	1.10	0.07	0.30	0.05	0.68	...	0.02	
15th do. ...	...	...	...	...	0.21	0.10	0.08	
16th do. ...	0.05	...	...	...	...	...	...	
17th do. ...	...	...	...	0.05	0.02	...	...	
18th do. ...	...	0.28	...	0.30	...	...	...	
19th do. ...	0.20	...	0.10	...	...	...	...	
20th do. ...	...	...	...	...	0.14	...	...	
21st do. ...	0.05	0.06	0.10	0.26	0.01	...	...	
22nd do. ...	...	...	...	...	...	0.02	...	
23rd do. ...	...	...	...	...	...	...	...	
24th do. ...	...	...	...	...	...	...	...	
25th do. ...	0.30	0.09	...	...	...	...	...	
26th do. ...	1.00	0.41	0.10	0.25	...	...	...	
27th do. ...	...	...	...	...	0.01	...	...	
28th do. ...	1.80	1.74	0.25	0.05	...	...	...	
29th do. ...	0.10	...	...	0.05	0.24	...	0.40	
30th do. ...	...	...	...	...	...	...	...	
Total ...	5.90	2.92	3.55	1.51	1.31	0.63	2.48	

KURNOOL,
20th July 1875.

(Signed) A. J. DODSON,
Manager and Acting Chief Engineer.

SUBMITTED for the information of Government.

The repair of locks of the 6th section, referred to in paragraph 4 of the report on the Upper Division may, it is considered, stand over until it is decided whether arrangements are to be made for opening the canal for navigation.

2. Some of the remarks of Mr. Wilks on the working of the new rules in the Upper Division may, with advantage, be considered by the Collector of Kurnool. Some of the difficulties noticed will disappear on the ryots becoming more familiar with the rules; the proper levelling and bunding of fields to entitle to the reduced rates should be strictly enforced; it is not likely then that changing land to be irrigated in order to pay the lower rates will be found profitable.

3. With regard to the Acting Chief Engineer's remark at the end of the report for the Lower Division, that he is still in executive charge of the lower sections,

*Proceedings of the Madras Government, Public Works Department,
11th August 1875.*

it may be noticed that Mr. Crawford should take up the conservancy duties there.

Proceedings, Madras Government, No. 1,772,
dated 24th June 1875, and No. 1,047, dated
23rd April 1874.

His employment in the Central Office on the duties of Chief Accountant was to be only a temporary arrangement, and he should resume his proper duties as early as possible.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Officiating Chief Engineer, P.W.D.

No. 197.

ORDER THEREON, 11th August 1875, No. 2,321.

IRRIGATION, No. 5.

RECORDED, and communicated to the
Chief Engineer and Manager, Madras
Irrigation and Canal Company, and to the
Collectors of Kurnool and Cuddapah.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Chief Engineer for Irrigation.

" " and Manager, Madras Irrigation and Canal Company.
" Collector of Kurnool.
" " of Cuddapah.
" Revenue Department.
" Examiner of Accounts.

Frd. E. C. Shunker.

Spare Copies

N. 82

Madras Irrigation & C. Co.
Manager and Ag. Ch. Engineer's Office
Kurrumool 21st July 1875.

To
The Chief Engineer
for Irrigation
Fort Saint George

Sir

June Reports.

I have the honour to forward per book
post Copies of the Upper and Lower Divisions
Reports together with my own for the month
of June 1875:-

I have the honour to be
Sir
Your Most Obedient Servant

A. Dodson

Manager & Ag. Ch. Engineer

3. Enclosures.

A. B.

Madras Irrigation and Canal Company

Upper Division

Abstract of Irrigation Accounts for season 1874-5 July 1874

Valley	Total Area	Total Amount Water Rate	Remission	Net Demand	Remission to Demand Co.
Pamalacottah	1151 15	5645 10 0	480 3 6	5165 6 6	
Mundicottah	3263 58	13074 5 0	335 9 2	12738 11 10	
Mundickottah	450 85	1274 11 5	149 10 .	1125 1 5	
Grand Total	4865 58	19994 10 5	965 6 8	19029 3 9	Remission to Demand Co.

Upper Division -
Sundernany Engineer Office
Kannore 10 July 1875

True Copy
Sundernany Engineer
Kannore 10 July 1875

Atty: L. D. Wells
Sundernany Engineer

No. 26584-2324/75
436/437-2562/74
Sept 28 55-2 Aug 5/75

2324/75
Sept 28 55-2 Aug 5/75

The Chief Engineer
of Irrigation
Kannore

11282

Sept 21 July 1875
Recd 24 July 75

2324/75

Journal Report

on the work of the

Upper and Lower

Divisions of the Irrigation

for June 1875.

11282/75

No. 6-8-75
Recd 11.8.75
11.8.75

Madras Irrigation and Canal Company
Upper Division
 Register of Rainfall during the month of June 1875
 Registered at 6 A.M. daily.

Days of Week	No. of days	Rainfall at Sornhasala		Rainfall at Kurnool		Rainfall at Telapoor		Remarks
		Inches	Decs	Inches	Decs	Inches	Decs	
Tuesday	1 st	Nil		Nil		1.20		
Wednesday	2 nd	"		"		Nil		
Thursday	3 rd	"		"		"		
Friday	4 th	"		"		"		
Saturday	5 th	0.40		0.11		"		
Sunday	6 th	Nil		Nil		1.20		
Monday	7 th	"		"		Nil		
Tuesday	8 th	0.90		0.11		"		
Wednesday	9 th	Nil		Nil		"		
Thursday	10 th	"		0.05		0.30		
Friday	11 th	"		Nil		Nil		
Saturday	12 th	"		"		"		
Sunday	13 th	"		"		"		
Monday	14 th	1.10		0.07		0.30		
Tuesday	15 th	Nil		Nil		Nil		
Wednesday	16 th	0.05		"		"		
Thursday	17 th	Nil		"		"		
Friday	18 th	"		0.28		"		
Saturday	19 th	0.20		Nil		0.10		
Sunday	20 th	Nil		"		Nil		
Monday	21 st	0.05		0.06		0.10		
Tuesday	22 nd	Nil		Nil		Nil		
Wednesday	23 rd	"		"		"		
Thursday	24 th	"		"		"		
Friday	25 th	0.30		0.09		"		
Saturday	26 th	1.00		0.41		0.10		
Sunday	27 th	Nil		Nil		Nil		
Monday	28 th	1.80		1.74		0.25		
Tuesday	29 th	0.10		Nil		"		
Wednesday	30 th	Nil		"		"		
Total -		5.90		2.92		3.55		

The rainfall at Jupand has been omitted as untrustworthy

(Signed) L. H. Wilks

Upper Division
 Conservancy Eng^g Office
 Kurnool 10th July 1875
 True Copy (Signed) L. H. Wilks
 Conservancy Engineer
 Draughtsman

Madras Irrigation and C. C.
Manager and Ag. Ch. Eng's Office
Kurnool 20th July 1875.

Acting Chief Engineer's Report
to accompany the Divisional Reports
— for June 1875 —

Water was admitted into the Canal at
Sonthasala on the 24th of June, and owing to a
passage having been cleared through the silt
and all the reeds having been cut away it
reached Kurnool in 9 hours and by the end
of the month had reached the 25th mile, although
its progress had twice to be checked owing to
some slight leaks due to sun cracks just at
water level.

Unfortunately I am still unable to
give the total amount of irrigation during the
past season owing to the neglect of the Revenue
Authorities in the Cuddapah Taluk who have
not yet sent in the applications for water in
several villages and the settlement cannot
commence until all the Village accounts have
been made up. In the Upper Division Mr.
Wilks reports that the acreage which was
irrigated was nearly the same as that of
last season (1873-74) but that owing to the
reduction of the rates the revenue is on the
average one fifth or 20 per cent less than that
of the previous year. No doubt this decrease
is due to the reduction of the rates sanctioned
in the new Rules, but it does not follow
that this will be a permanent decrease of
revenue.

1/11/5240/75
1/11/2321

1/11/247/55

of revenue per acre. for if the same fields are planted with paddy again they will pay Rs. 4 per acre an increase of 33 per cent and now that the ryots are allowed to apply to the Company's overseers for tickets I anticipate a considerable increase in the amount of acres irrigated and consequently with the increased rates of revenue to be realized.

The departure of Mr. Latham to England on sick leave, (my) having to undertake new duties and the alterations necessary in the arrangement of staff have caused some delay in the progress of general work but I hope now all will go on without further delay or difficulty.

The usual table of rain fall accompany this report.

W. Dodson
Manager & Ag. Engrs

Madras Irrigation and Canal Co. Register of Rain fall in Inches and Decimals of the following stations during the month of June 1875, at 6 A.M. daily

Month and date	Southwards	Kurnool	Veljeerum	Jettur	Ayaloor	Chintakunta	Shoor	Remarks.
1	Nil	Nil	1.20	Nil	Nil	0.26	Nil	
2	"	"	Nil	"	"	Nil	"	
3	"	"	"	"	"	"	"	
4	"	"	"	"	"	"	"	
5	0.40	0.11	"	"	"	0.03	"	
6	Nil	Nil	1.20	0.05	"	"	"	
7	"	"	"	0.45	"	0.10	"	
8	0.90	0.11	Nil	Nil	Nil	Nil	"	
9	Nil	Nil	"	"	"	0.12	0.56	
10	"	0.05	0.30	"	"	Nil	1.42	
11	"	Nil	Nil	"	"	"	Nil	
12	"	"	"	"	"	"	"	
13	"	"	"	"	0.68	"	0.02	
14	1.10	0.07	0.30	0.05	0.21	0.10	0.08	
15	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
16	0.05	"	"	"	"	"	"	
17	Nil	"	"	0.05	0.02	"	"	
18	"	0.28	"	0.30	"	"	"	
19	0.20	Nil	0.10	"	"	"	"	
20	Nil	"	"	"	0.14	"	"	
21	0.05	0.06	0.10	0.26	0.01	"	"	
22	Nil	Nil	Nil	Nil	Nil	0.02	"	
23	"	"	"	"	"	Nil	"	
24	"	"	"	"	"	"	"	
25	0.30	0.09	"	"	"	"	"	
26	1.00	0.11	0.10	0.25	"	"	"	
27	Nil	Nil	Nil	Nil	0.01	"	"	
28	1.80	1.41	0.25	0.05	Nil	"	"	
29	0.10	Nil	Nil	0.05	0.24	"	0.40	
30	Nil	"	"	Nil	Nil	"	Nil	
Total.	5.90	2.92	3.55	1.51	1.31	0.63	2.48	

Manager & Asst. Engrs. Office
Kurnool 20 July 1875

A. J. Dobson
Manager & Asst. Engrs.

Navigation

No 35.

Memorandum

Submitted for the information of Government.

The repairs of locks of the 6th section referred to in para 4 of the report on the Upper Division, may it is considered stand over until it is decided whether arrangements are to be made for opening the Canal for navigation.

2. Some of the remarks of Mr. Mills on the working of the new rules in the Upper Division may with advantage be considered by the Collector of Kurnool. Some of the difficulties noticed will disappear on the ryots becoming more familiar with the rules: the proper levelling and bunding of fields to entitle to the reduced rates should be strictly enforced; it is not likely then that

1600/249/31

11/12/5240/35

90-1101, 90-1105
11/12/5240/35

that changing lands to be irrigated
in order to pay the lower rates will be
found profitable.

3. With regard to the Acting Chief
Engineer's remark at the end of the
report for the lower Division that
he is still in Executive charge
of the lower sections it may be
noticed that Dr. Crawford should
take up the Conservancy duties there.

His employment in the central office

in the duties of Chief Accountant

was to be only a temporary arrange-

ment and he should resume his

proper duties as early as possible.

Ohio. Memorandum
No. 1772 of 24th
June 1875. and
No. 1047. dated
23rd April 1876.

Wm. Crawford
Acting Chief Engineer

Order command
2nd August 1875

L. The offg. Secy. W. C. Wood
S. H. L.

Apr 27/01
CH. 62:01

100.92.00
28:01

101.81.00
28:01

101.81.00
28:01

P. W. 1875 Sept.
No: 5243

From

The Offg. Chief
Engineers

Dated 2 Aug. 7 1875.
Recd. 13 -

G. H. No: 25.

Submitting Reports
on the works of the
Upper and Lower
Divs. of the M. & C. Co.
for June 1875.

S. B. 2221. 11-8-75.

196.

No 2321 O.H.B.
Proceedings of the Madras Government
Under date the 11th August 1875
Read the following:-
in the offg. Chief Engrs. (H. E. No 35 dated 2nd
August 1875.)

Recorded and com-
municated to the Chief
Engineers and Managers
Madras Irrigation and
Canal Company and
to the collectors of Kurnool
and Cuddapah.

by 1/5

to Chief Engrs for Madras 5

Do & Manager
M. & C. Co. 3

Collector of Kurnool 5

" " Cuddapah 5

Rev. Dep. Secy 15

Examiners of Accounts 7

SC Dps - 26-8-75

5243

Govt. of 1875 Madras.
PUBLIC WORKS.

To

The Chief Engr.
for the
for the

Dated

Issued

Recd.

Encl.

G. O. 11 Aug 1875, No. 2321

Nos. 196-197

Report on the works of the
Super & Lower Divisions of the
I. & C. Co. for June 1875.-
The — recorded and commd
to the Chgo. & Managers
of I. & C. Co. & to the Collector's
of the District & Cuddalore.