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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W. D.

DEPARTMENT

G.O. No.
S.P. No.

1699(N)

Press.
Mis.

Dated

14-2-1986

[Signature]

to be folded or roughly handled

P. W. & C. No. 268

Madras Municipality.
PUBLIC WORKS & CONSERVANCY DEPARTMENTS.
Madras, 6th Feb 1879.

From

L. E. BURROWS, Esq.

President,

Municipal Commission.

To

C. G. Master Esq.
Acting Chief Secretary to Government
Fort St. George

Sir,

I have the honour to forward as under noted for the information of Government as requested in Government Order No 1699 of 4th April 1878 Public Works Department monthly Statement showing level of water in selected wells in the eight Divisions of the Municipality

Name of Wells	Level of water in well	Level of water in well			Remains water in well
		31 st Dec 1878	31 st Jan 1879	31 st Feb 1879	
Railway Bridge at Koyas	13.95	19.42	19.42	0.00	5.47
Ramanathan Street Well	6.89	14.89	17.39	+2.50	10.50
Koroyana Strong St.	16.33	20.41	20.41	0.00	4.08
Shahar Road	4.65	21.64	21.06	-0.58	16.41
Marshall's Road	10.42	22.64	22.16	-0.50	11.72
Coramallur Road	12.26	22.75	21.67	-1.08	9.41
Spillican Street Road	10.46	19.16	19.25	+0.09	8.79
St. Thomas Bazaar Road	10.48	20.07	21.07	0.00	10.59

I have the honour to be
Sir,
Yours most obed^t Servant
L. E. Burrows
President of the

N. 301

Forwarded to the Public Works Department.

Attd. George.
7. February 1879

to the Public Works Department.

Quarter
by Chief Secy

Submitted to the
Council of the
Municipality
for the year 1879

2nd 6th July 1879
and 15th

Forward 1879
from (Municipal Council)
to the Council of the
Municipality

W. L. Burrows

P. W. & C. No. 491

Madras Municipality.
PUBLIC WORKS & CONSERVANCY DEPARTMENTS.

Madras, 7th March 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

L. E. Maitland Esq.

Chief Secretary to Government
Fort Saint George.

Sir,

I have the honor to forward
as under noted for the information of Govern-
ment as requested in G. O. No. 1699 W of 4th
April 1878 Public Works Department, mon-
thly statement showing level of water in
selected wells in the eighth Division of the
Municipality.

Division	Names of Wells	Level of water bottom of well 1879	Level of water in well 31st Aug 1879	Rise or fall in water 1879	Rise or fall in water 1879
1	Railway Bridge. Chapparam	13.95	19.42	18.92	-0.50
2	Lamman Street Well	6.89	17.39	17.39	0.00
3	Naraina Serong S. Well	16.33	20.41	19.91	-0.50
4	Obraham Road	4.65	21.06	20.64	-0.42
5	Marshall's Road	10.42	22.14	22.31	+0.17
6	Poonamallee Road	12.26	21.67	22.17	+0.50
7	Trifurcate High Road	10.46	19.16	19.33	+0.17
8	St. Thomas Bazaar Road	10.48	21.07	21.07	0.00

Station 20 feet below
mean Sea Level

I have the honor to be
Sir,
Your most Obedt Servt
L. R. Burrows
President Municipal Comm.

CPH

o. l. Shrub 10 hpl.

Datum 20 feet below
Mean Sea Level

I have the honor to be
 Dear,
 Your most obed^t Serv^t
 J. R. Munro

N. 994

Forwarded to the Public Works Department.

7. May 1879.
To the Public Works Department

Forwarded
By Chief Secy

1879
The President
Municipal Council
Madras
The Acting Secy
to the Government
Madras
15.5.79
No. 949
Forwarded
and back letter
13.5.79
13.5.79
13.5.79

A. L. Sheel 13 May

Received
per
12.5

Madras Municipality,

P. W. & C. No. 1215

PUBLIC WORKS & CONSERVANCY DEPARTMENTS,

Madras, 5th June 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

L. J. Martin Esq.
As Chief Secretary to Government
Madras

Sir,

I have the honor to forward
as undernoted for the information of your
Municipality as requested in G. O. No. 1699 W of the
4th April 1878 Public Works Department
monthly statement showing level of water
in selected wells in the 8 Divisions of the Municipality

Division	Streets	Level of level of water rise or fall			
		bottom of well	30th Apr	31 May	30 April in water
1	Railway Bridge	13.95	18.42	19.09	+0.67 5.14
2	Lamanna Street	6.89	15.39	16.89	+0.50 10.00
3	Naraina Street	16.33	18.91	20.16	+1.25 3.83
4	Strahano Road	4.65	17.89	21.62	+3.73 16.97
5	Marshall's Road	10.42	21.98	22.14	+0.16 11.72
6	Poomallur Road	12.26	21.92	20.67	-1.25 8.41
7	Trichy High Road	10.46	19.25	19.08	-0.17 8.62
8	St. Thomas Bazaar	10.48	20.07	20.07	+0.00 9.59

Station 20 feet below
Mean Sea Level

I have the honor to be
Sir
Yours most obedt Servant
L. R. Burrows
President

N. 1192

Transferred to the Public Works De-
partment.

Order of
10. Jan 1879

Warrant
Offy Chief Secy

to the Public Works Department

March 1879
The President
The Secretary
The Treasurer
The Auditor

to the Secretary of the
Attorney General

Letters 5-2 June
of 1879

Recd - 12-15

Chas. J. 12-15

Forwarded to

of the Public Works

in the Public Works

no request in 1879

with the Public Works

Warrant

-6-

G.O. 1699 W. 4-4-78.

1879

From

The Finl. Dept

No. 1192 310 June/79.

The President, Madras
Municipal Commission, Sub-
mits statement showing level
of water in certain wells.

Aug 11/6

The P. E. should
have the levels entered
in his diagram,
which, it is presumed,
is sent at regular
intervals to Major
Peaycock for
inspection.

11/6

13-6

O.H. Sheet 11 June 1879

P. W. & C. No. 144 J

Madras Municipality,

PUBLIC WORKS & CONSERVANCY DEPARTMENTS.

Madras, 11 June 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

L. C. Martin Esq.

As Chief Secretary to Government
Coltiamun.

Sir,

I have the honor to forward as
undernoted for the information of Government
as requested in G. O. No. 1699 W. of 11 April 1878
Public Works Department, monthly statement
showing level of water in selected wells in the
eight Divisions of the Municipality.

Division	Names of wells	Level of bottom of well	Level of water in well		Remarks
			31 st May 1879	31 st May 1878	
1	Railway Bridge & Lyppuram	12.95	19.09	18.67	-0.42 4.72
2	Samana Street well	6.89	16.89	16.39	-0.50 9.50
3	Nannana Enay Cottam	16.33	20.16	19.91	-0.25 3.85
4	Shabano well	4.65	21.62	20.64	-0.98 10.98
5	Murshahalli Road	10.42	22.14	22.14	+0.00 11.72
6	Coomamallu Road	12.26	20.67	19.57	-1.10 7.25
7	Empress High Road	10.46	19.08	19.08	+0.00 8.62
8	Danki Thome Bazaar Road	10.48	20.07	20.07	+0.00 9.59

Station 20 feet
below mean sea
level

I have the honor to be
Sir,
Yours most obedt Servt

L. R. Burrows
President

N 1384

Forwarded to the Public Works Department.

Obtained
9th July 1879
for the Public Works Department

Master
Offg Chief Const

-8-

Received 1879
The President
Practical Steam
Boilers
The Acting Chief Const
to the Public Works
Department
Obtained
Dated 4th July 1879
Received 1879
No 1448
Statement of cost of
unbait motor in
selected wells in
regions in the G. O.
within boundaries
of the Department

KEEP-WITH.

Current No. _____

Enforcement Letter No. 1384

Dated the 9th July/79

from the Finl Dept.

The President, Municipal Commission,
Madras, forwards
statement showing
level of water in certain
wells.

Aug 10/79

Leads: Ref. 11/79

L. Chat. Copy:

Madras, 5th August 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

A. Master Esquire

Chief Secretary to Government,
Colaba, Madras.

SIR,

I have the honor to forward as
indicated for the information of Government
as requested in G. O. 11.1699 W. of 4th April 79
Public Works Department, monthly statement
showing level of water in selected wells in the
eight Divisions of the Municipality.

Division	Locality	Level of bottom of well	Level of water in well		Increase or decrease	Remarks
			30 June 1879	31 July 1879		
1	Railway Bridge (Koyamputur)	13.95	18.67	19.67	+1.00	5.72
2	Lamanna (Atrul Well)	6.55	16.39	16.39	+0.00	9.84
3	Naraina (Dong Well)	16.33	19.91	20.41	+0.50	4.08
4	Strahan's Road	4.55	20.64	20.31	-0.33	15.66
5	Marshall's Road	10.43	22.14	22.14	0.00	11.72
6	Boonamallee Road	12.26	19.51	18.92	-0.59	6.66
7	Trifolium (High Road)	10.46	19.08	19.08	+0.00	8.62
8	South Thorne (Bazaar)	10.48	20.07	19.82	-0.25	9.34

Station 20 feet below
Mean Sea Level -

11/79

I have the honor to be
Your most obedient servant
L. R. Burrows
President, Municipal Commission.

Handwritten: 18 Sept 1879

1573

1573

Transferred to the Public Works Department.

Character by Chief Secy

8th August 1879
to the Public Works Department.

Forwarded level of subsoil water in selected wells as requested in G.O. dated 16th August 1879.

Handwritten: 18 Sept 1879

Handwritten: 18 Sept 1879
Municipal Commission

Technical Dept
13-8

Madras Municipality,

PUBLIC WORKS & CONSERVANCY DEPARTMENTS.

Madras, 2nd September 1879.

P. W. & C. No. 1841

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

to Mr. Master Esquire

Chief Secretary to Government.

Cotacmunda

Sir,

I have the honor to forward as under noted for the information of Government as requested in G.O. No. 1699 W of 4th April 1870 Public Works Department, monthly statement showing level of water in selected wells in the eight Divisions of the Municipality.

No. of Well	Locality	Level of water in well			
		bottom of well	31st July 1879	31st August 1879	31st Sept 1879
65	1. Railway Bridge & Lyapnam	13.95	19.67	20.17	+0.50
66	2. Lamana Street Well	6.65	16.39	17.39	+1.00
67	3. Naraina & Dong's Well	16.33	20.41	20.75	+0.34
68	4. Athanas Road	4.65	20.31	20.72	+0.41
69	5. Marshall's Road	10.42	22.14	22.23	+0.09
70	6. Poonamallee Road	12.26	18.92	19.92	+1.00
71	7. Triplicane High Road	10.46	19.08	19.33	+0.25
72	8. St. Thomas Bazaar Road	10.48	19.82	19.82	+0.00

Datum 20 feet below Mean Sea Level

I have the honor to be
Your most Obedt Servant
L. R. Burrows
Secretary to the Municipal Commission

Kistna District.									
Guntoor	...	...	...	...	...	...	...	...	1
Chilakalumpett	...	...	...	...	...	...	...	...	1
Rapully	...	...	...	...	...	...	...	...	1
Masulipatam	...	...	...	...	...	...	...	...	1
									4

Nellore District.									
Nellore	...	...	...	...	...	...	...	...	1
Gudur Chuttrum	...	...	...	...	...	...	...	...	1
Gudur	...	...	...	...	...	...	...	...	1
Ongole	...	...	...	...	...	...	...	...	1
									4

Salem District.									
Vaniambady	...	...	...	...	...	...	...	...	1
Terupatur	...	...	...	...	...	...	...	...	1
Uttenkara	...	...	...	...	...	...	...	...	1
Singarapett	...	...	...	...	...	...	...	...	1
									4

On the Line of the Madras Railway.									
Trivellore	...	...	...	...	...	...	...	...	1
Vellore	...	...	...	...	...	...	...	...	1
Tripatore	...	...	...	...	...	...	...	...	1
Salem	...	...	...	...	...	...	...	...	1
Somanore	...	...	...	...	...	...	...	...	1
Arconum	...	...	...	...	...	...	...	...	1
Cuddapah	...	...	...	...	...	...	...	...	1
Gooty	...	...	...	...	...	...	...	...	1
Adoni	...	...	...	...	...	...	...	...	1
Bellary	...	...	...	...	...	...	...	...	1
									10

5. The Madras Railway Company and the President of the Madras Municipality will be requested to continue the observations which have hitherto been taken under their directions, and to submit the results monthly for record.

6. Of the four places in North Arcot two* are indicative of river flow, and not of the state of the sub-soil water; but of the two remaining places, Chittoor shows a materially improved condition, water level being 21 feet on January 1st and 12 feet on December 31st; though Vellore shows no improvement, the Railway well indicating a diminished supply being 2 feet lower on December 31st than on January 1st.

7. The observations in Chingleput are unfortunately rendered of little value, having apparently been discontinued on 30th April, the reasons for which, the Governor in Council desires, may be promptly explained.

8. In Coimbatore the observations commenced on 1st May, and indicate a rise towards 31st December, except in the Jail well at Coimbatore itself, where the level appears to be 6½ feet lower on 31st December than on 1st May, but as the whole of this occurred in the first week of August, there is probably some error in this return, or other explanation.

9. In the Godavery District the returns commence on 1st February. At Rajahmundry and Jaggampetta the water level has returned on December 31st to the identical level; at Thadakalapudi it is 3 feet higher; and at Gopalapuram 4 feet higher.

10. In Kistna all stand from 1 to 3 feet higher.

11. In Nellore the returns were discontinued on October 31st at three stations, and on September 30th at one. All at the end of the return indicate a considerable reduction of level, but the discontinuance has vitiated any comparison, and the reason must be explained.

12. In Salem the returns only date from 1st May. Three* indicate a rise varying from 2 to 5 feet; one at Hanoomathentum in Uttengiri Taluq shows no perceptible increase. Of the wells on the Railway, the returns of which, however, end on September 30th, but date back from 1st October 1876, Vellore, Tripatore, Adoni, Bellary, show a fall; Trivellore, Cuddapah remain the same, and Salem, Somanore, Arconum, Gooty have increased, Gooty in a remarkable manner probably due to some exceptional circumstances. The steady fall at Bellary is very noticeable.

13. The Governor in Council much regrets that the discontinuance of some of these returns has deprived them of much of their interest. A knowledge of the state of the sub-soil water, its increase or diminution as affecting supplies of drinking water, as well as cultivation are of much importance. Such knowledge is not to be obtained by fitful observations, but by steady and persistent record. The intended comparison with the rainfall returns is unfortunately rendered almost impossible unless indeed notes exist from which the records can be completed.

14. In tabulating the figures it will be more convenient in future if all the wells are measured in the same way. Some are now given from the bottom of well; some from the ground level, which for the purpose is the most convenient.

15. The observations should be continued for the same wells, and some should also be selected in Vizagapatam, Kurnool, Bellary, in the dry taluqs of Trichinopoly, Madura, Tinnevely, and in South Arcot.

16. The height of the wells above mean sea level would also, when readily known, be of value.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Chingleput.
" " " North Arcot.
" " " Nellore.
" " " Kistna.
" " " Godavery.
" " " Coimbatore.
" " " Salem.
" " " Vizagapatam.
" " " Kurnool.
" " " Bellary.
" " " Trichinopoly.
" " " Madura.
" " " Tinnevely.
" " " South Arcot.
" Revenue Board.
" Consulting Engineer for Railways.
" President, Madras Municipal Commission.
" Famine Department.
" Financial "

Exd. T. D. Ryan.

Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1878) Madras.
PUBLIC WORKS.

To
THE DISTRICT ENGINEER,
CHINGLEPUT,
&c., &c., &c.

Dated April 4th.

Issued

Recd.

Encl.

G. O., 4th April 1878, No. 1,699 W.

APRIL

No. 55.

Subterranean water-supply.

P. W. & C. No. 1110

Madras Municipality.

PUBLIC WORKS & CONSERVANCY DEPARTMENTS.

Madras, 7th October 1878.

From

L. R. BURROWS, Esq.,

President,

To

Municipal Commission.

C. L. Austin Esq.
As Chief Secy to Government.
Datamund.

SIR,
I have the honor to forward as undernoted for the information of Government as requested in G. O. N^o. 1699 W of 4th April 1878 Public Works Department, monthly statement showing level of water in selected wells in the eight Divisions of the Municipality.

No. of well	Division	Locality	Level of water in well on 31st Aug 1877	Level of water in well on 31st Aug 1878	Level of water in well on 31st Aug 1879	Remarks
65	1	Railway Bridge	13.15	22.17	20.01	0.16
66	2	Chamara Street	6.85	17.39	16.09	0.30
67	3	Namaina	16.33	20.75	20.71	0.16
68	4	St. John's Road	11.15	20.72	20.64	0.09
69	5	Marshall's Road	11.42	22.23	22.44	0.07
70	6	Comana Hill Road	12.26	19.92	18.70	1.07
71	7	Triflicane	10.46	17.33	19.11	0.16
72	8	St. Thomas Bastion	10.48	17.82	17.82	0.00

Datum 20 feet below mean sea level.

I have the honor to be,
Dear Sir,
Your most obedient servant,
L. R. Burrows,
President.

will their

a man on the ing

have Gov

town app this or

Ra ide his

Handwritten notes and signatures at the bottom of the left page.

Operated
by Ching Lee

11. *Account of the* }
Public Works Department.

The President
 General Grant
 1879

The following is a list of
 the names of the
 persons who have been
 admitted to the
 membership of the
 Association since the
 last meeting.

June 29th
Wm. W.

Madras Municipality,
PUBLIC WORKS & CONSERVANCY DEPARTMENTS,
Madras, 7 November 1879.

L. of Master Esquire
Chief Secretary to Government
Fort St. George.

I have the honor to forward as under noted for the information of Government as requested in G. C. N^o 1699 W. of 4 April 1878 Public Works Department's monthly statement showing level of water in selected wells in the eight divisions of the Municipality.

No. of well	Number	Locality	Level of bot- tom of well	Level of water in well	Level of water in well	Level of water in well	Level of water in well	Level of water in well
			1879	1879	1879	1879	1879	1879
65	1	Railway Bridge, Koyppuram	13.95	20.01	22.59	+2.58	5.64	
66	2	Lampara Street well	6.85	16.89	17.39	+0.50	10.54	
67	3	Naraina Street well	16.33	20.91	22.08	+1.17	5.15	
68	4	Strahans Road	14.65	20.64	25.14	+4.50	20.49	
69	5	Marshall's Road	10.42	22.14	28.39	+6.25	17.47	
70	6	Poonamallee Road	12.26	18.75	22.01	+3.26	9.75	
71	7	Tricolour Night Road	10.46	19.17	22.58	+3.41	12.12	
72	8	St. Thome Bazan Road	10.48	19.82	23.97	+3.25	12.59	

Satum 20 feet below
mean sea level—

I have the honor to be
Dear Sir,
Your most obedt Servt
H. B. Murray.
President of the



P.W.D.
35779

112

Handwritten notes and signatures at top left of left page.

Handwritten note: "Transferred to the Department of Public Works"

Handwritten note: "11/13-12-33/1879"

Handwritten notes on left page, including "To the Acting Engineer to Government Works" and "To the Municipal Engineer."

Handwritten note: "as per instructions"

P. W. & C. No. 2492

Madras Municipality,

PUBLIC WORKS & CONSERVANCY DEPARTMENTS,

Madras, 3rd December 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

C. G. Master Esquire

Chief Secretary to Government

Fort St. George.

Sir,

I have the honor to forward as under noted for the information of Government, as required in G. O. D. 1699W of 4th April 1878 - Public Works Department monthly statement showing level of water in selected wells in the eight divisions of the Municipality.

Division	Locality	Level of water in well at bottom of well	Level of water in well at top of well	Level of water in well at middle of well	Level of water in well at surface
65 1	Railway Bridge at day	13.95	22.59	23.42	+ 0.88 9.47
66 2	Ramona Street well	6.85	17.39	17.39	+ 0.00 10.57
67 3	Naraina Street well	16.33	22.08	23.16	+ 1.08 6.83
68 4	Abraham Road	4.55	25.14	26.64	+ 1.50 21.99
69 5	Marshall Road	10.42	28.39	28.14	- 0.25 17.72
70 6	Thornhill Road	12.25	22.01	20.00	+ 2.99 12.74
71 7	Publican High Road	10.46	22.58	23.08	+ 0.50 12.62
72 8	St. Thomas Bazaar Road	10.48	23.07	26.01	+ 2.94 15.53

Station 20 feet below Mean Sea Level.

I have the honor to be Sir,
Yours most obedt Servt

Handwritten signature of L. R. Burrows

L. R. Burrows
President, Municipal Commission

No 2353

How much to the Public Works Department.

F.W.D.
6-1-79

H. J. S. J. J. J.
5 Dec 1879

Gleaner
by Chipley

Estimated level of
water in selected
wells as requested
in G.O. within month

3630
to the Acting Chief Director
to Government
24 Dec 1879
to the Municipal Engineer
13 Dec 1879
to the Municipal Engineer
13 Dec 1879

24 Dec 1879
to the Municipal Engineer
13 Dec 1879

W. H. S. J.

Technical Report
6/12

P. W. & C. No. 21

Madras Municipality.

PUBLIC WORKS & CONSERVANCY DEPARTMENTS.

Madras, 9 Dec 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

C. G. Hastie Esq.
By Chief Secy to Government
Post Office

Sir,

I have the honor to forward as
undernoted for the information of
Government as required in G.O. No.
1699 W. of 4th April 1878 Public Works
Department monthly statement
showing level of water in selected
wells in the eight divisions of the
Municipality.

No.	Locality	Level of water in well	Level of water in well	Level of water in well	Level of water in well	Level of water in well	Level of water in well	Level of water in well	Level of water in well
65	1. Railway Bridge at 10.13	23.42	22.27	0.95	8.62				
66	2. Ramana Street well	6.85	17.39	16.39	0.50	10.04			
67	3. Narayan Seroing St well	16.33	23.16	22.23	0.33	6.00			
68	4. Stachans Road	4.65	26.64	26.44	0.50	21.49			
69	5. Marshalls Road	10.42	28.14	27.31	0.33	16.81			
70	6. Ponnammallee Road	12.26	25.00	26.29	1.59	14.53			
71	7. Triplicane Street	10.46	23.09	23.58	0.50	13.12			
72	8. St. Thomas Palmer Road	10.48	26.01	25.07	0.94	14.50			

Station 20 feet below
mean sea level.

I have the honor to be
Dear Sir,
Yours faithfully,
J. H. S. J.

1940

From
 Dr J. H. Andrews
 Treasurer
 of
 the Old Baptist
 Church of
 New York
 Dec. 3rd 1877.
 \$100.00
 Received of the
 Treasurer of the
 Old Baptist Church
 of New York
 \$100.00
 Dec. 3rd 1877.

4-4-1970

No 874 f

Madura to Saluy

Statement Showing the Subterranean Water Supply in deep well along the Course of Polar
for the Month of May 1877.

16

[illegible]

31st May 1877

To, The Chief Engineer

with reference to G. O. No. 114 of 13th Aug 1977

Gloucester

1952

W. C. C. C.

Sub-D^y Officer

Leopoldaea vanda
Local Hudsonian

Feb: 1898

19A

18 JUN 77

5052

The 1st of June

to the 1st of June

1801 to 1802

1801 to 1802

of the 1st of June
in the 1st of June
of the 1st of June

5094

Thos. L. Eng. Shenglepat

Feb 13th June 1877.

874

Philadelphia
 Williams for May 1877

[illegible]

157 The Center

At the time of the

Of the 4 ^{places} in North Creek
~~however~~ 2 are only in-
dicative of river flow,
and not of the state of
the subsoil water; but
of the 2 remaining
places in North Creek
Chittoor shows a materi-
ally

materially improved con-

dition, - water level being

- 21' on January 1, and

- 12' on December 31st; but

Vellore ~~shows~~

no improvement, and

the railway well indi-

cating a diminished

supply, being 2' feet

lower on Dec 31st than

on January 1st.

The observations in

Chungyud were for

fairly good water at

little value, being at

presently low. The

well on 30 April. The

reason for which, the

Governor and Council

have now been promptly

explained.

explained.

21

In Coimbatore. The ob-

servations commenced

on 1st May, and indicate

a rise towards 31st Dec

except in the jail well

at Coimbatore itself,

where the level appears

to be 6 1/2 feet lower on

31st Dec, than on 1st May,

but as the whole of this

occurred in the 1st week

of August, there is pro-

bably some error in

this return, or other ex-

planation.

In Godavery district,

the returns commenced

on

on 1st February. At
Rajahmundry & Jag.
gametta the water lev.
el has returned on Decr.
31 to the identical level;
at Thadokalapudi it
is 3 feet higher; and at
Gopalapuram 4 feet
higher.

In Kistna all stands
from 1 to 3 feet higher.

In Nellore the returns
are discontinued on
October 31st at 3 stations,
and on September 30 at
1. All at the end of
the returns indicating
a considerable reduction
of level, but the discen-
tinuance has irritated
any

22
any comparison, and the
reason must be explain-
ed.

In Salem the returns
only date from 1st May.

Here in the Nellore & Kistna
various lands -
Dumakota & Ganga etc. -
I indicate a rise vary-
ing from 2 to 5 feet -

At Anoomathentun
in Uttengiri Taluk shows
no perceptible increase.

Of the wells on the Rail-
way, the returns of which
however end on Septem-
ber 30, but date back from

1st Octr 1876, Vellore, Tri-
pattur, Adoni, Bellary -

show a fall; Trivellore,
Cuddapah remains the
same, and Salem, So-
menore, Arcot, Gooty

have

have increased, mostly in
a remarkable manner
probably due to some
exceptional circumstances.
The steady fall at
Bellary is very noticeable

The Governor in Council
much regrets that
the discontinuance of
some of these returns;
has deprived them of
much of their interest -
A knowledge of the state
of the subsoil water,
its increase or diminution,
as affecting supplies
of drinking water, as
well as cultivation, are
of such importance -

Such

23.
Such knowledge is not
to be attained by fitful
observations, but by steady
and persistent record.

The intended comparison
with the rain fall returns
is unfortunately rendered
almost impossible unless indeed
notes exist from which
the records can be completed.

In tabulating the figures
it will be more
convenient ^{in future} if all are measured
in the same way.
Some are now given
from the bottom of well.
Some from the ground
level

Memo:

With reference to His Grace the Governor's orders, in regard to the observations of sub soil water which are being undertaken, the Chief Engineer begs to point out that the Diagrams submitted to His Grace were those of certain localities in each district selected in the Chief Engineer's Office for plotting. Diagrams for every observation have not been plotted as such would involve very heavy work. The total number of sites observed being 442 as per enclosed Memo while only 40 diagrams have been plotted.

I am, Sir, very respectfully,
 Yours truly,
 J. W. D.

level, which for the purpose is the most convenient.

The observations should be continued for the same wells, and some should also be selected in Godavery, Nizagapataw, Kurnool, Bellary, in the dry taluqs of Trichinopoly, Madurai, Tirunelveli, and in South Arcot.

The height of the wells above Mean Sea Level will also when ready known be of value.

By 1572

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 Memo No 704 1/24/1779
 Memo No 705 1/25/1779
 Memo No 706 1/26/1779
 Memo No 707 1/27/1779
 Memo No 708 1/28/1779
 Memo No 709 1/29/1779
 Memo No 710 1/30/1779
 Memo No 711 1/31/1779
 Memo No 712 2/1/1779
 Memo No 713 2/2/1779
 Memo No 714 2/3/1779
 Memo No 715 2/4/1779
 Memo No 716 2/5/1779
 Memo No 717 2/6/1779
 Memo No 718 2/7/1779
 Memo No 719 2/8/1779
 Memo No 720 2/9/1779
 Memo No 721 2/10/1779
 Memo No 722 2/11/1779
 Memo No 723 2/12/1779
 Memo No 724 2/13/1779
 Memo No 725 2/14/1779
 Memo No 726 2/15/1779
 Memo No 727 2/16/1779
 Memo No 728 2/17/1779
 Memo No 729 2/18/1779
 Memo No 730 2/19/1779
 Memo No 731 2/20/1779
 Memo No 732 2/21/1779
 Memo No 733 2/22/1779
 Memo No 734 2/23/1779
 Memo No 735 2/24/1779
 Memo No 736 2/25/1779
 Memo No 737 2/26/1779
 Memo No 738 2/27/1779
 Memo No 739 2/28/1779
 Memo No 740 2/29/1779
 Memo No

The Chief Engineer
believing that 30 well selected
sites for observation would
be ample in the Chingleput
and Nellore Districts suggests
that the District Engineers
of the Districts in question
be directed to limit the
observation to this extent,
carefully eliminating all
unpromising sites viz. such as
are expensive to observe
and from their remoteness
from supervision are un-
reliable.

Edmond Colonel R.E.
Chief Eng^r & Secy to Govt
P. W. D.

21-3-78

Supp^y-

11/2/78

See page 10

Sublimanean Water Supply

Number of sites where observations are being made in each District and the number of sites selected by the Public Works Department to be depicted on Diagram.

26

No.	Districts	No. of sites selected by Dist. Engineer	No. of sites selected by P.W. Department
1	North Arcot	11	4
	Chengalpattu	127	5
	Coimbatore	30	5
	Madurai	8	4
	Misra	26	4
	Nellore	167	4
	Salem	10	4
	Madras Railway South West Line	33	5
	do North West Line	30	5
		442	40

Chief Engineer's Office
Fort St. George 20th March/78

275

FOR ORDERS.

The design was
to return to the
main line

The observations
to be continued
at some points to
select wells or
other points of observation
not recorded for
each district. The
following

Ray
11/13/72

In G.O. 114 dated
13th January 1877 instructions
were issued for observations
being taken at convenient
places with a view to
ascertain the state of the
subterranean water supply
on the upland plains
between the Hills and
the sea, and the District
Engineers of the Chingleput
North Arcot, Nellore,
Kistna, and Godavery Districts
were called on to make

a weekly record for sub-
mission to Government at
the end of each Calendar
month.

2. Subsequently, the
Districts of Coimbatore and
Salem were added to the
list of places at which
observations were to be taken.

3. The results are now
shown in the accompan-
ing set of Diagrams which
embrace the whole year
1877 from January to
December.

The results have been
sent to the Government
for their consideration.

4. Instructions are
requested whether the
observations are to be con-
tinued any longer.

The observations have been
maintained at some places
and discontinued at others.

The observations have been
continued at some places
and discontinued at others.

Edmond Colver Esq.
Chief Eng. & Secy to Govt.
July 1878
P.M.D.

FOR ORDERS.

The General Secretary

*164 R
Charles*
N. 1699 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the *4th April 1878*

Read the following:—

*In G.O. 114 dated
13th January 1877 instructions
were issued for observations
being taken at convenient
places with a view to ascertain
the state of the subterranean
water supply in the upland
plains between the Hills and
the sea; and the District
Engineers of the Chingleput,
North Arcot, Nellore, Kistna,
and Godavery Districts were
called on to make a weekly
record for submission to*

113/4

R.P. 30/3

At 12.2.78 Sec 2.4

Government at the end of each
Calendar month.

2. Subsequently the Districts
of Coimbatore, and Salem were
added to the list of places at
which observations were to be
taken.

3. The results have been
submitted and plotted in the
Government Office for selected
wells on a set of Diagrams
which embrace the whole year
1877, from January to December.
The observations should be
maintained at those places
which are specified below,
but may be discontinued at
all other localities.

4. The Diagrams
plotted include the following

wells

In the North Arcot District

Salar Arcot	1
Chayar do	1
Chittoor	1
Vellore	1
	4

Chingleput District

Wallajahad	1
Tirumangalur	2
Madurantacum	1
Chingleput	1
	5

Coimbatore District

Central Jail	1
Palladium	1
Caroor	1
Coimbatore	1
Pallachy	1
	5

Godavery District

Rajahmundry	1
Jaggampetta	1
Thadakalapudi	1
Gopalapuram	1
	4

Kistna District

Guntur	1
Chilakalumpett	1
Rapully	1
Masulipatam	1
	<u>4</u>

Nellore District

Nellore	1
Gudir Chuttrun	1
Gudur	1
Ongole	1
	<u>4</u>

Salem District

Varianbady	1
Sompatur	1
Uttankara	1
Swigarapett	1
	<u>4</u>

On the ^{line of the} Madras Railway

Trivellore	1
Vellore	1
Tripatore	1
Salem	1
Somanore	1
Arconum	1
Cuddapah	1
Gooty	1
Adoni	1
Bellary	1
	<u>10</u>

5. The Madras Railway Company and the President of the Madras Municipality will be requested to continue the observations which have hitherto been taken under their directions, and to submit the results monthly for record.

6. Of the four places in North Arcot two are indicative of river flow, and not of the state of the sub-soil water; but of the two remaining places, Chittoor shows a materially improved condition, water level being 21 feet on January 1st and 12 feet on December 31st.

though Vellore shows no improvement, the railway well indicating a diminished supply, being 2 feet lower on December 31st than on January 1st.

7. The observations in Chingleput are unfortunately rendered of little value, having apparently been discontinued on 30th April, the reasons for which, the Governor in Council desires, may be promptly explained.

8. In Coimbatore the observations commenced on 1st May, and indicate a rise towards 31st December, except in the fail well at Coimbatore itself, where the level appears to be $6\frac{1}{2}$ feet

lower on 31st December than on 1st May, but as the whole of this occurred in the first week of August, there is probably some error in this return, or other explanation.

9. In the Godavery district the returns commence on 1st February. At Rajahmundry and Jaggampetta the water level has returned on December 31st to the identical level; at Shada Kalapudi it is 3 feet higher; and at Gopalapuram 4 feet higher.

10. In Kistna all stand from 1 to 3 feet higher.

11. In Nellore the returns

are discontinued on October 31st at three Stations, and on September 30th at one. All at the end of the return indicate a considerable reduction of level, but the discontinuance has vitiated any comparison, and the reason must be explained.

12. In Salem the returns only date from 1st May.

Three indicate a rise varying from 2 to 5 feet; one at

*Vaniambadi, Tempatore and Singarapett

Hansomathentun in Uttengiri Taluk shows no perceptible increase. Of the wells on

the Railway the returns of which, however, end on Sept.

30th, but date back from 1st October 1876, Vellore, Tempatore, Adoni, Bellary, show a fall;

Trivellore, Kundapur remain the same, and Salem, Somnore, Arcunur, Gooty have increased, Gooty in a remarkable manner probably due to some exceptional circumstances. The steady fall at Bellary is very noticeable.

13. The Governor in Council much regrets that the discontinuance of some of these returns, has deprived them of much of their interest. A knowledge of the state of the sub soil water, its increase or diminution as affecting supplies of drinking water, as well as irrigation are of much importance. Such

are Knowledge is not to be obtained by faithful observations, but by steady and persistent record. The intended comparison with the rainfall returns is unfortunately rendered almost impossible unless indeed notes exist from which the records only can be completed.

The 14. In tabulating the figures it will be more convenient in future if all the wells are measured in the same way. Some are now given from the bottom of well. Some from the ground level, which for the purpose is the most

convenient. 34-35
15. The observations should be continued for the same wells, and some should also be selected in Vizagapatam, Kurnool, Bellary, in the dry taluqs of Trichinopoly, Madurai, Tinnevely, and in South Arcot.

16. The height of the wells above mean sea level would also, when readily known, be of value.

Oct 24. 70.

- D. C. Chingleput
- N. Arcot.
- Nellore
- Kistna
- Godavari
- Coimbatore
- Salem
- Vizagapatam
- Kurnool
- Bellary
- Trichinopoly
- Madurai
- Tinnevely
- S. Arcot.

Rev. Board

Comr. for Ry.

President Madras Municipal

Janine Sept. 1870
F. L. Sept.

37.
35

16/8/28 *L.P.B.*

Govt. of India
PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O., 4 April 1878. No. 16994

Sub.

Subterranean water supply