Public Works (1890) Department.

G.O., No. 871-72

DATED 24 October 1896

[Despatch Abstract.]

Cattle Crossing: Estimate of Rs. 1400 for constructing a — at 44 miles 6 furlongs 4510 feet of Commamur Canal, Kistna Deltas, sanctioned.

T.C. 26/10.

26/10.

## BACK PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## FURTHER PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
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GENERAL.
ACCOUNT.

# Government {1896} of Madras.

## PUBLIC WORKS.

*Recd.* } 1896. *Enclosures*

*Regd.* *Spare copies*

**G.O., No. 860 I., 23rd October 1896.**

## OCTOBER.

### Gauge

Approving the recommendation of the Chief Engineer for Irrigation that a — to ascertain the run off from the catchment basin of rivers or streams be indented for from England for use in the IV Circle.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Chief Engineer for Irrigation, dated 11th August 1896, No. 160 I.

There is at present no means of gauging rivers or streams to ascertain the run off from their catchment basins, yet the success of any irrigation project depends entirely on the degree of accuracy with which the run off is estimated.

2. The usual practice is to employ a registrar on Rs. 8 or Rs. 10 to read a weir gauge. The results so obtained are worthless.

3. Automatic registers should be supplied to the department, capable of registering from, say, 1 inch to 6 feet, worked by clock work, which would not require winding oftener than once in, say, 10 days, and they should give discharge diagrams for that period.

4. I have the honour to request that you will be good enough to take the necessary steps with a view to the supply of such gauges at an early date.

To the Engineer, Madras Municipality, dated 25th August 1896, No. 363 M.

From S. LOANE, Esq., Acting Engineer, Madras Municipality, to the Chief Engineer for Irrigation, dated 7th September 1896, No. 964 W. W.

With reference to your letter No. 363 M. of the 25th ultimo, I have the honour to inform you, that the weir gauge fitted at the head of the Red Hills water-supply channel was made by Messrs. W. F. Stanley & Co. of London. This gauge has been in use at the above site for about eleven years and has had slight repairs done to it on five occasions.

The gauge is composed of a float on which a pencil is carried, a drum on which the diagram form is fixed, and a clock which works the drum.

The drum revolves once round in 24 hours, and as the float rises or falls, the pencil fixed on it indicates on the form the depth over knife edge of weir. We have also two other gauges—one at our Ráyapuram pump well, and the other at the outfall sewage channel in Washermanpet. These were made by Messrs. Bailey & Co., Hydraulic Engineers, Manchester, and, although of somewhat different construction, work on the same principle as that on the water-supply channel.

All three gauges have worked satisfactorily.

No. 174 I.

Submitted to Government with a recommendation that a gauge be indented for from England. Messrs. Bailey & Co., Hydraulic Engineers, Manchester, could probably supply or make a gauge to suit the Superintending Engineer's requirements.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

24th Sept. 1896.



ORDER—No. 860 I., dated 23rd October 1896.

Approved.

2. The General Superintendent, Public Works Stores, will submit a special indent for a gauge of the kind required for transmission to the Director-General of Stores, India Office, for early compliance.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Chief Engineer, Public Works Department.
" Superintending Engineer, IV Circle.
" " " V "
" Examiner, Public Works Accounts.

Exd. T. K. Narayana Aiyangar.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

~~To His Excellency the Governor.~~

No. 860 I. dt 23rd October 1896

A

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Wed Sept

READ the following

Part 13 & Part From the Superg. Engineer, Fourth Circle, (4th No. 160-I dated 11 Augt 1896.)

Part To the Engineer, Madras Municipality (" No. 363-M. dated 25 Aug 96)

Part From the ——— do ——— do ——— ("N.N. No. 964 dated 7 Sept. 1896).

no 174 I of 24th Septr 1896.

Submitted to Government with a recommendation that a gauge be indented for from England. Messrs Bailey & Co. Hydraulic Engineers, Manchester, could probably supply or make a gauge to suit the Superg. Engineer's requirements.

Order thereon.

Approved.

2. The General Superintendent, Public Works Stores, will submit a special indent for a gauge of the kind required for transmission to the Director-General of Stores, India Office, for early compliance.

7/11/96

11.11.96

To The Chief Engr. for Irrigation.
" Chief Engineer, P.W.D.
" Superg. Engineer, Fourth Circle.
" Engr. Engineer, Fifth Circle.
" Examiner, P.W. Accts.

E. I. Form No 1—1,000—27-11-95.

# Public Works (1896) Department.

CURRENT No. 8806

*Order*

*From* The Chief Engineer for Irrigation

No. 174-I

*Dated* 24-9-96

*Received* 1-10-96

*Enclosures* 3

*Spare copies*

Issue

W.H.

"9"

SUBJECT.

Weir gauge required for use in Fourth Circle

B.R. 20-10-96

C-L.S.462 G.C.S/10

BACK PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|
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FURTHER PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|
| | | | |

# Public Works (1896) Department.

Recpt.

~~CURRENT~~ No. 534. M.

*Order*

*From* The Engineer Madras Municipality

*No.* 964

*Dated* 7-9-96

*Received* 8-9-96.

*Enclosures*

*Spare copies*

SUBJECT.

Weir gauge fitted at the head of the Red Hills water supply Channel — Furnishing particulars of the with name of makers.

BACK PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|
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FURTHER PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|
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W. W. No. 964.

PUBLIC WORKS DEPARTMENT.

MUNICIPAL OFFICE,

Madras, 7th Septr 1896.

50

FROM

S. Loane Esq.

~~R. E. ELLIS, Esq., Assoc. Mem. Inst. C. E.,~~

Ag. Engineer, Madras Municipality.

To

The Chief Engineer for Irrigation,

MADRAS.

SIR,

With reference to your letter No 363 M of the 25th Ultimo, I have the honor to inform you, that the weir gauge fitted at the head of the Red Hills water supply channel was made by Messrs W.F.Stanley & Co. of London. This gauge has been in use at the above site for about 11 years and has had slight repairs done to it on 5 occasions.

The gauge is composed of a float on which a pencil is carried, a drum on which the diagram form is fixed and a clock which works the drum.

The drum revolves once round in 24 hours, and as the float rises or falls the pencil fixed on it, indicates on the form, the depth over knife edge of weir. We have also two other gauges one at our Royapuram Pump well, and the other at the Outfall sewage channel in Washermanpet. These were made by Messrs Bailey & Co, Hydraulic Engineers Manchester, and although of somewhat different construction, work on the same principle as that on the water supply channel.

All 3 gauges have worked satisfactorily.

I have the honor to be,

Sir,

Your most obedient servant,

S. Loane

Ag. Engineer.

CHIEF ENGINEER
FOR IRRIGATION.
8- SEP. 96
No.....

OW 5.3
8806/96

# Public Works (1896) Department.

CURRENT No.

*Order*

*From*
The Chief Engineer for Irrigation

No. 363 M.

*Dated* 25—8—96.

*Received*

*Enclosures*

*Spare copies*

SUBJECT.

Clockwork apparatus in use at the head of the Municipal Channel at Red Hills — requests to furnish this office with particulars of the — with name of makers as it is under contemplation to procure some form of automatic discharge regulating apparatus.

## BACK PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|
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## FURTHER PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|
| | | | |

No 363 dt 9/28 896

To
The Engineer
Madras Municipality

Sir,

It is under contemplation to procure some form of automatic water ~~regis~~ discharge registering apparatus and I should be much obliged if you could give me particulars of the Clock work apparatus ~~head of the municipal channel~~ in use at the Red Hills with name of makers —

8609

28/8
96