

8806
Public Works (1896) Department.

G.O., No. 8602

DATED 23rd October 1896

[Despatch Abstract.]

Gauge: Approving the recommendation
of the Chief Engineer for irrigation that a ^{basins} to as-
ertain the run off from the catchment of
rivers or streams be indicated for from
England, for use in the IV Arch.

100

TC
23/10 23/10

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.

By Enclaving the Memo.
 No. 860 J. of 23rd October 1896
 PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

From the Super. Engineer, Fourth Circle, (No. 160-I dated 11 Aug. 1896.)
 To the Engineer, Madras Municipality. (No. 363-M. dated 25 Aug. 96.)
 From the — do — do — (No. 964 dated 7 Sept. 1896.)

No 174 J of 24th Sept 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
 Super. 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.

To the Chief Eng. for Irrigation.
 - Chief Engineer P. W. D.
 - Super. Engineer, Fourth Circle.
 - Sub. Engineer, Fifth Circle.
 - Examiner, P. W. Accts.

Public Works (189⁶) Department.

CURRENT No. 8806

Order

From

⁶
The Chief Engineer
for Irrigation

No. 174-D

Dated 24-9-96

Received 1-10-96

Enclosures 3.

Spare copies

Issue

W.H.

"g"

SUBJECT.

Weir gauge required
for use in Fourth side.

1371
20696

028462 G.C. 5/10

RECEIVED
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 — I wish
particulars of the
with name of maker.

BACK PAPERS.

FURTHER PAPERS.

W. W. No.

PUBLIC WORKS DEPARTMENT,

MUNICIPAL OFFICE,

Madras, 7th Sept 1896.

FROM

S. Loane Esq.

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

ag. Engineer, Madras Municipality.

To

The Chief Engineer for Irrigation,

M A D R A S .

SIR,

All 3 gauges have worked satisfactorily.

I have the honor to be,

Sir,

Your most obedient servant,

Ag. Engineer.

Ag. Engineer.

CHIEF ENGINEER
FOR IRRIGATION.

8- SEP 96

No.

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 con-
templation to procure
some form of automatic
discharge pipe for
apparatus.

To
The Engineer
Madras Municipality

Sc.

It is under
Contemplation to present
Some form of automatic
water ~~re~~ discharge
by timing apparatus
and I should be
much obliged if you
could give me
particulars of the
Clockwork Apparatus
used at the Municipal Channel
in use at the Red
Hills with name of
makers

28/8
18/6

Public Works (1896) Department.

Recd.

CURRENT No. 17-IV

Order

From

*The Superintendent
Fourth Circle.*

No. 160. J.

Dated // — 8 — 96.

Received 15 — 8 — 96

Enclosures

Spare copies

SUBJECT.

*Gauging rivers or
streams — reports
that there is no means
at present of — to ascertain
the run off from their
catchment basins
and requests to take
necessary steps to be
supplied with such
gauges.*

8806/56

J. Hannan, Esq.,
Supg. Engineer, 4 Zircle,

To,
The Chief Engineer
for Irrigation.

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 register, 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 honor to request that you
will be good enough to take the necessary
steps

Steps with a view to the supply of such gauges.
at an early date

I have the honor to be,
Sir,

Your most obedt. servant,

W. H. Munn
Supg. Engineer, & Co.

AR

Q¹³ 5-1
8806/56