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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W DEPARTMENT

G.O. No. 1629-W
B.P. No. D.

Press.
Mis.

Dated 17 — 6 — 1879 197.

V. S. M.

Not to be folded or roughly handled

1629w
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

17th June 1879, No. 1,629-A W.

Buildings and Roads.
Civil Works.

Read the following papers:—

No. 78-A. From Major S. C. CLARKE, R.E., Acting Superintending Engineer, Third Circle, to the Chief Engineer, Public Works Department, dated Saint Thomas' Mount, 8th February 1879, No. 654.

I HAVE the honor to inform you that a Captain Saunders of Madras has applied, through the Divisional Officer at the Presidency, for permission to lay down some piping between the Poonamallee road, on the north side of the South Indian Railway, where he proposes to set up a shed for a condensing engine, and the River Cooum, as shown on the accompanying plan, for the purpose of obtaining water from the latter. Captain Saunders states that very little water will be actually required, so that I presume there can be no valid objection to the permission being granted.

2. I beg you will be good enough to obtain therefore as early as possible the requisite permission from the Government.

No. 78-B. From Major H. W. WOOD, R.E., Superintending Engineer, Third Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 24th April 1879, No. 2,403.

With reference to your memorandum, No. 712, dated 19th February 1879, calling for further particulars regarding Captain Saunders' application to lay a pipe from the River Cooum to his ice works, I have the honor to report as follows.

2. Captain Saunders proposes to lay a 12" iron pipe under the road and South Indian Railway to connect the Cooum with a well to be dug in his own ground, as shown in the accompanying sketch plan. The well will be excavated to a depth of about 16 feet, as the ground level at site is about 13 feet above present surface level of the river.

3. The water drawn from the well by means of suction pipes is to be utilized for the condensers of the steam engine of the ice machine, and it is stated that at the commencement of the Company's operations 60 gallons of water per minute will be required; this supply to be maintained during the 24 hours. If the Company meet with the support it expects, the supply of water required will be eventually increased from 60 to 300 gallons per minute, and as it is not probable that a well of ordinary dimensions would give this supply permission to lay the pipe is sought.

4. The water will issue from the engine at a temperature of not more than 130°, and Captain Saunders proposes to discharge it into a covered drain 20" x 22" section running from the Poonamallee road to the Cooum and shown in site plan. This drain has a slope of about 1 in 30, and is thus of ample dimension and gradient to convey (in addition to its ordinary duties) the trifling quantity of water (1 cubic foot per second at maximum) which will be discharged from the condensers.

5. I am given to understand that the Railway Company has offered no objection to Captain Saunders' proposals to lay the pipe under their line, and in case of your permission being granted Captain Saunders intends to place the work of laying the pipe in the hands of the Company.

6. No obstruction of thoroughfare need occur whilst the pipe is being laid, as the road is fairly wide and the pipe can be laid in sections.

7. I am of opinion that there is no objection to granting Captain Saunders' request, but at the same time I beg to submit that the question is one for the Municipal Authorities (who are principally concerned) to determine.

No. 78-C. Endorsement of the Officiating Chief Secretary to Government, Financial Department, dated Ootacamund, 9th May 1879, No. 1,003.

From L. R. BURROWS, Esq., President, Municipal Commission, Madras, to the Acting Chief Secretary to Government, dated Madras, 6th May 1879, P.W. and C. No. 963.

I HAVE the honor to return, herewith, the documents marginally noted, and in compliance with the request contained in your docket thereon to report, for the information of His Grace in Council, that there appears no objections to Captain Saunders' proposals as explained in the Superintending Engineer's letter.

1. Letter from Superintending Engineer, Third Circle, to Chief Engineer, Public Works Department, No. 2,493, dated 24th April 1879.

2. Proceedings, No. 1,616, Public Works Department, dated 23rd April.

3. Plan.

2. It is not improbable, however, that a nuisance will be caused by the steam arising from the water returned into the river, and the Ice Company should be held responsible for the construction of any additional works at the outfall of the Municipal drain that may be considered necessary for abating such nuisance.

3. In laying the pipe across the Municipal road provision must be made for the protection of the traffic which must not be interrupted.

FORWARDED, with papers, to the Public Works Department for disposal.

(Signed) C. G. MASTER,
Officiating Chief Secretary.

No. 78-D. From Surgeon-Major W. R. CORNISH, F.R.C.S., Sanitary Commissioner for Madras, to the Under Secretary to Government, Public Works Department, dated Coonoor, 29th May 1879, No. 782.

REFERRING to endorsement, No. 1,963, of the 26th instant, I have the honor to state that the usual temperature of the Cooum water (in shore) is often above 90° Fahrenheit when exposed to the sun's rays in the hottest months of the year. The discharge of a comparatively small quantity of water of a higher temperature into the river is not, in my opinion, likely to increase the nuisance arising from chemical changes in the muddy deposits depending on high temperature.

2. I would suggest, however, that the outfall drain, where it connects with the river, should be floored with rough stone for a short distance, so as to allow the hot water to mix with the main body of the stream, before it could act on the muddy bed, at the outfall of the drain.

3. With this precaution I do not apprehend any nuisance from the proposed works in connection with the ice manufactory.

No. 78-E. ORDER THEREON, 17th June 1879, No. 1,629-A W.

THE Government are pleased to sanction the application from Captain Saunders to lay a pipe from the Cooum river across the Poonamallee road to his ice works.

2. It must be understood that no obstruction is to be caused to traffic while the pipe is being laid, and that effect must be given to the suggestion of the Sanitary Commissioner with reference to the flooring of the outfall drain at Captain Saunders' expense.

(True Extract.)

Major, R.E.,
Ag. Under Secy. to Govt., P.W.D.

To Captain Saunders:
„ the Superintending Engineer, Third Circle.
„ the President, Municipal Commission, through the Public Department.
„ the Sanitary Commissioner of Madras.

Exd. C. Howarth,
Spare Copies

BUILDINGS AND ROADS
CIVIL WORKS.

Govt. of [1879] Madras
PUBLIC WORKS.

CAPTAIN SAUNDERS.

Dated June 17th.

Issued

Recd.

G. O., 17th June 1879, No. 1,623-A W.

JUNE

Nos. 78A-78E.

Laying a pipe from the Coorn River near
the Ponnammallee Road for Ice Manufacture.
Sanctioned with certain remarks the applica-
tion from Captain Saunders for --

NO. 654.

From

THE SUPERINTENDING ENGINEER.

CHINGLEPOT 3rd Circle

To

The Chief Engineer
Public Works Department.

Sir,

Enc
+ Sketch Plan -

I have the honor to inform you
that a Captain Saunders of Madras
has applied through the Divisional
officer at the Presidency for permission
to lay down some piping between the
Ponnammallee Road, on the North side
of the South Indian Railway, where
he proposes to set up a shed for
a condensing engine, and the River
Kudam, as shown on the accompanying
Sketch Plan. for the purpose of obtaining
water from the latter. Captain
Saunders states that very little
water will be actually required.
so that I presume there can be
no valid objection to the permis-
sion being granted.

2. I beg you will be good enough to
obtain therefore as early as possible
the requisite permission from the
Government.

I have the honor to be
Sir

Your most obedient servant

W. L. G. Major G. L.

Ag. Supr. Engineer 3. C. C. C.

1629/4

From the Sup^r. Engr 3^d C.
No 917-6-79 No 1629 N. H.

No 654.

dated 8th } Feb 11/79.
Ord

1 Plan at 658.3rd C.
ord. C. 12958/79.
7.4.79
Enc. 1.

Laying down some piping on
between Poonamallee road and
Kulam rivet for obtaining
water — Request to
obtain permission from
Govt for — as applied
for by Captain Saunders
of Madras —

No 1616

P. H. Dept.
1629

Letter from the Superintending
Engineer Third Circle No 2403 dated
24th April 1879.

Transferred to the Public
Department with a view to the
matter being remitted for the
consideration of the Madras
Municipality.

2. In the opinion of this Depart-
ment there seems no objection
to the proposal.

Per Ben — I. M. A. R. E.
Alexander Leitch Robert
M. Dept.

Subs. Engr 3^d
24th April 1879

To the Asst. Chief Secretary
to Government
Public Dept.

E. H. S.

Referred to the President Madras
Municipal Commission for his opinion.

No. 2403.

3 $\frac{1}{2}$ Circles.
Gaugleplat Superintending Engineer's Office,
Chief Clerk
Saint Thomas' Mount, 24th April 1879.

From

THE SUPERINTENDING ENGINEER,
3d Circle, Chingleput

To

The Chief Engineer
P. W. Department.

SIR,

2. Captain Saunders proposes to lay a 12" iron pipe under the Road, and South Indian Railway, to connect the Croom with a well to be dug in his own grounds, as shown in the accompanying sketch plan. The well will be excavated to a depth of about 16 feet, as the ground level at site is about 13 feet above present surface level of the River.

by means of suction pipes, is to be utilized for the condensers of the Steam engine of the Ice Machine and it is stated that at the commencement of the Company's operations 60 gallons of water per minute will be required. This supply to be maintained during the 24 hours. If ^{the} Company meet with the support it expects, the supply of water required, will be eventually increased from 60 to 300 gallons per minute and as it is not probable that a well of ordinary dimensions would give this supply, permission to lay the pipe is sought.

4. The water will issue from the Engine at a temperature of not more than 130° and Captain Saunders proposes to discharge it into a covered drain 20" x 22" section running from the Poornamallee Road to the Coom and shown in site plan. This drain has a slope of about 1 in 30 and is thus of ample dimension and gradient to convey in addition to its ordinary duties the trifling quantity

163
of water (1 cubic foot per second at maximum) which will be discharged from the Condensers.
1629W

5. I am given to understand that the Railway Company has offered no objection to Captain Saunders proposals to lay the pipe under their line and in case of your permission being granted, Captain Saunders intends to place the work of laying the pipe in the hands of the Company.

6. No obstruction of thoroughfare need occur whilst the pipe is being laid as the road is fairly wide and the pipe can be laid in sections.

7. I am of opinion that there is no objection to granting Captain Saunders request, but at the same time I beg to submit that the question is one for the Municipal Authorities who are principally concerned to determine.

I have the honor to be

Sir
Your most obedient servant

W. R. R. R. R. Major R. C.

Superintending Engineer 3^d Circle

From.

The Super Eng^r & Sindh Canal

No 1046

Reg 17-6-77. No 1629 of 11

No 2403.

Dated 24th } April 1879
Received }

Recd 24th May 1879-

Enc 1.

Laying Pipe from the
River Corum for Ice
Manufactures—Reporting
regarding the—

lit wing
5/11

P. W. & C. No. 963

Madras Municipality,

PUBLIC WORKS & CONSERVANCY DEPARTMENTS.

Madras, 6th May 1879.

From

L. R. BURROWS, Esq.,

President,

Municipal Commission.

To

C. G. Master Esq.

As Chief Secretary to Government
Coastal Command.

Sir,

I have the honor to return
I. Letter from Sup^r Eng^r 3rd bridge herewith the docu-
to Chief Engineer. Ow D. ment marginally
No 2403 dated 24 April 79 } noted and in com-
II. Proceedings No 1616 Ow D. pliance with the
dated 28th April request contained
III. Plan in your docket
thereon to report for the information of His
Grace in Council that there appears no ob-
jections to Captain Saunders's proposals
as explained in the Superintending Engi-
neer's letter

2. It is not improbable however
that a nuisance will be caused by the
steam arising from the water returned into
the river, and the Ice Company should
be held responsible for the construction of
any additional works at the out fall
of the Municipal Drain that may be con-
sidered necessary for abating such nuisance

3. In laying the pipe across the
municipal road provision must be made
for the protection of the traffic which must
not be interrupted.

I have the honor to be
Sir,

Your most obedt Servt

J. R. Munro.
President Board of Comm.

S. N. 1046

Recd 27 May 1879.

Pr 97-6-77 at 1627 A. M.

780

3. The bridge across the

17.10.1879
May 24 1879
Sanitary Commissioner
Madras
To the Acting Chief Secretary
to Government
Catacomund
No 1003-85
May 18 1879
Sanitary Commissioner
Madras
To the Acting Chief Secretary
to Government
Catacomund

Recd 17-6-79 at 1629 at 11
Final 1879 Sanitary
Commissioner
Madras
The President
Municipal Council
Madras
To
The Acting Chief Secretary
to Government
Catacomund
Dated 6th May
Despatched 7th May
Recd - 8 May 79
No 963 - 3 under
10.11.1879
Refers to that under
certain provisions
to Captain Gannett
proposals to lay
a pipe from the
Coorn to his Ice
works.
With Enclosures

OFFICE OF SANITARY COMMISSIONER,

No. 4882-

Madras, 29 May 1879.

From

The Sanitary Commissioner
for Madras.

To

The Under Secretary to Government
Pub. Works Department
to Mr. George

1629
18

Enclosures

Referring to G.O. No. 1953 of the 25th
instant, I have the honor to state that the
usual temperature of the Coorn water
(in shore) is often above 90° F. when
exposed to the sun's rays in the hottest
months of the year. The discharge of a
comparatively small quantity of water
of a higher temperature into the river
is not in my opinion likely to increase
the nuisance arising from chemical
changes in the muddy deposits depending
on high temperature.

I would suggest however that
the outfall drain where it connects with
the

3.
all un-
for
not

17-6-79

From
The Sanitary Commissioner
for Madras.
To Mr. M. S. Sanyal Esq.
Dated 29 May
Despatched 2 June
Received 19 June
1879
No. 982-
Photocopies
of the original
manuscript of the
report with reference to the
manufacture of ice with
that with certain precautions
the discharge of water of
higher temperature in the
rooms will not increase
the nuisance in the streets

Sanitary Commissioner
for Madras
17-6-79
I have the honor to
acknowledge the receipt of the
report on the subject of the
discharge of water from the
rooms, and in reply to inform
you that the same has been
forwarded to the Sanitary
Commissioner for Madras
for his consideration. I am,
Sir, very respectfully,
Yours obedient servant,
J. H. M. Sanyal

If the Govt grant leave
it must be accepted
stated that in no
way was any claim
to compensation of the Govt
hereafter in the form
of a grant -

The pipe must be laid
in a brick water trench
through the N.W. corner
so that it may be
repaired without breaking
ground -

The owner of the pipe will
be responsible for any damage
to property or persons due
to the pipe being laid
in the street on the N.W. corner
while it remains -
Recd 19-5-79. Ptd 23-5-79.
Cir 14-5-79. Ptd 17-5-79.
O. A. Sanyal Esq.

Mr. W. H. H. H.
R. G. H. H.
For order

With reference to
the accompanying
Office note and under
the proviso named
by the Municipal
Board I cannot myself
see any objection to
the proposal made
by Captain Saunders

14-5-79
See resolution?
Letting Capt. take
bath from the corner
but my belief is that
a steam engine working
on that little slip of
ground close to the
road side will prove
a nuisance. L.H.

all
for
red

1629^w
11

would only remark that
of Municipality
union in the use of
water for domestic
manufacturing purposes
it will make a material
difference in Red Hills
in cost -

and I think San Francisco
should say whether he
thinks the hot water
will not create a nuisance
on the north of the
shore -

in England when first
I met experts concerning
water thrown on it
water in a tank
in the middle of the room

1629^w

Account of the
water -

1629^w
12

GOVT.
OF MADRAS.

1879.

P. W.
DEPT.

SECRETARY.

No 1963
1/26 May 1879.

OFFICE NOTE

Referred to the Sanitary
Commissioner with reference
to the third paragraph
of the Bannai letter of
the 8th May. for report
whether the hot water
returned from the con-
densing engine will
not cause an intolerable
nuisance on the feet
heads of the labourers
H.P. 13/5

Att

23/5/79

The Sanitary Commr
with 5 Encls.

Ch. 712. 19. 2. 79.

1879

1629W
13

From the Encl. Dept.

No. 1003 of 9th May/79

A Capt. Saunders, who
is going to start an Ice
Company in Madras, asked
leave to lay down some
piping between the
Poonamallee Road, north
of the South Indian Rail-
way, and the Coorun,
to get water for a con-
densing engine.

The Government asked
for fuller particulars,
the size of the piping &
length of time for which
the road would have to
be closed for laying
it, and suggested that
he should dig a well
on his own compound.

Capt. Saunders in
reply informed the
Public Engineer that the

Recd 19.5.79. Dtd 21.5.79.
Cir 24.5.79. Dtd 19.5.79.
D. H. Steel 29 May

pipe was to be a 12" one,
connecting the Casum
with a well dug to 3
feet below the present
surface level of the
river, and that the pipe
could be laid in sec-
tions and need not
obstruct the thoroughfare.

The reason he wanted
water from the Casum
was, that, in the event
of the Company being
successful, 300 gallons
per minute during the
24 hours, would be re-
quired, and an ordinary
sized well would not
give this supply. The
water as it issued from
the Condensers of the Engine
was to be discharged into
a covered drain run-
ning from the Pasma-
wallee Road to the
Casum. See Site plan.

1629 W
The Railway Company
do not object to Capt
Saunders' proposal to lay
a pipe under their line.
Nor do the Municipality,
who remark, however,
that if a nuisance is
caused by the steam
arising from the water
returned to the river,
(which issues from the
Engine at a tempera-
ture of not more than
100°,) the Ice Company
should be held respon-
sible for any works at
the outfall of the drain
that may be necessary
for abating the nuisance.

Submitted for
order. J.S.P. 14/5

No 712 N. 19 Feb. 1879.

Memorandum.

16296
15

C. No 1220

With reference to the
Supt^r Engineer's letter N. 654 of
the 8th Instant the undersigned
has the honor to request that fuller
and more definite particulars regarding
Captain Saunders' proposals may be
afforded. —

The Superintending Engineer
should state what is to be the size
and strength of the piping, and
for how long the road will have to be
closed for laying it. —

At present it would seem
that Captain Saunders might obtain
his object better by simply digging a
well in his garden. —

Fort St. George.
February 1879

Colonel R.

Acting Chief Engineer D. 16

W. P. C. The Superintending Engineer, Herd Gate

FOR ORDERS.

11 Feb 1879

FOR ORDERS.

No. 1629 A-Gr 1629 W B & R
Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 14th June/48.

Read the following:—

From
The Supp. Engr. Third Circle (N.C. No. 654 d/8th Feb. 18/9)
" Financial Department (No. 1003—9th May—)
" Sanitary Commissioner } (No. 782—29th—)
Madras }

The G^ots are
pleased to sanction the
application from Captain
Saunders to lay a pipe
from the Cooum river
across the Poonamallee
Road to his Ice works.
2. It ^{must} ~~should~~ however
be understood that no
obstruction is to be caused
to traffic while the pipe

J. H.

is being laid; and that
the suggestion of the
Sanitary Commissioner
with reference to the flooring
of the out-fall drain, be
given effect to at Captain
Saunders expense.

S.
6.6

Alt

S.
6.6

1. Captain Saunders.
The S. & Third Circle for
communication to Captain Saunders.

2. President Municipal Comm.
thru the Public Dept.

3. Sanitary Commissioner of
Cir 9. 6. 79. Del 17. 6. 79. Honduras. Mr. S. Copy despatched
to City 6-6-79. Despatch 1-7-79. 17th June 79.

Works



Govt. of Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

21/6

G. O. *17 June* 1879, No. 1629 A

Nos. 78A-78B

Laying a pipe from the
Cooum River across the
Poonamallee road for
ice manufacture.

Sanctions with certain
remarks the application
from Capt Saunders
for —