Archives I-10,006—16-8 77.

(1) Number of pages 58

(2) Date of repair 12/86

(3) Initials of the Referencer lang

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D DEPARTMENT

G.O. No. B.P. No.	1310-w	Press. Mis.
Dated	7-5-1879 ~~197~~.	

Not to be folded or roughly handled

A. Mani

1310
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

7th May 1879, No. 1,310 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 39. Note by the Deputy Chief Engineer, Public Works Department, dated 24th April 1879.

From the President of the Municipal Commission, Madras, through the Financial Department, dated 25th March 1879, No. 656.

Abstract.—Brings to notice that the Superintendent, Harbour Works, has stopped the construction of the groyne to the south of the main drain mouth near the Fort, the certain result being that the delivery pipe will be closed up by the sand accumulation in a fortnight's time.

From the Military Department, dated 17th April 1879, No. 2,077.

Abstract.—Transferring letter from the Quartermaster-General, stating that anything tending to increase the foreshore is objectionable from a military point of view, and that the eventual cost of moving the batteries in consequence of the accumulation to the south of the harbour must be debited against the Harbour Works.

No. 40. Order thereon, 7th May 1879, No. 1,310 W.

The site of the groyne in question has been inspected by the officers noted in the margin, who report that the construction of the groyne will be the most effective as well as the cheapest and simplest method of preventing the stoppage of pumping by sand accumulation at the mouth of the pipe.

Colonel J. H. M. Shaw-Stewart, R.E.,
Consulting Engineer for Railways.
Major J. Pennycuick, R.E., Ag. Deputy Chief
Engineer, Public Works Department.

2. They point out that the extension of the foreshore caused by the construction of the groyne will be trifling compared with that certain to be caused by the Harbour Works themselves, and that at the most the effect of the groyne will only anticipate slightly this inevitable extension.

3. The intercepting drain, the immediate commencement of which was directed in the marginal Proceedings, will render the groyne superfluous after the present season, but immediate measures are necessary in order that the pumping of sewage may be carried on, and the course recommended by Colonel Shaw-Stewart and Major Pennycuick is practically the only one available.

G.O., No. 718 W., dated 11th March 1879.

4. Concurring in their opinion, the Governor in Council has directed the construction of the groyne to be immediately resumed.

5. These Proceedings will be communicated by the Military Department for the information of His Excellency the Commander-in-Chief with reference to the Quartermaster-General's letter of the 9th April last.

(True Extract.)

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

To the Superintendent, Madras Harbour Works.
" Military Department.
" Finiancial do.

BUILDINGS AND ROADS:
CIVIL WORKS.

Govt. of (1879) Madras.

PUBLIC WORKS.

To

The SUPERINTENDENT,
MADRAS HARBOUR WORKS,
&c., &c., &c.

Dated May 7th.

Issued

Recd. Encl.

G. O., 7th May 1879, No. 1,310 W.

MAY.

Nos. 20-40

Groyne South of the Pumping Station near the Fort, Madras.—Directs the construction of the —.

PW46
~~E.~~ No. 656

Madras Municipality,
Public Works ~~Department~~
~~EXECUTIVE ENGINEER'S~~ DEPARTMENT,
Madras, 25th March 1879.

From
L. R. BURROWS, Esq.,
~~Acting~~ President Municipal Commission.

1310

ry to Government
Saint George

he honor to bring to the
Governor in Council that
erintendent of the Madras
ped the construction of
of the Main Drain —
or the reasons stated in
dant No 706 [illegible] copy
nless the groyne is pro
ery pipe of the pump
y be closed up in about
sand accumulating
e to the north of the
Drain, pumping will be again stopped and
the old nuisance which has lately been considerably mitigated will be as bad as ever.
The increase of the foreshore is certainly objectionable on sanitary grounds, but it has
been tolerated by the inhabitants of the
town

Madras. 24/4/79.

1312

My dear Sankey - After careful inspection of the sewage outfall North of the Fort, in company with Pennycuick & Thorowgood, I have no doubt that the small groyne proposed by the latter will exercise no permanent effect towards extending the beach line. It will perhaps cause a slight extension of the beach at that point a month or so earlier than the same effect would without doubt be produced

BUILDINGS AND ROADS:
CIVIL WORKS.

Govt. of (1879) Madras.

PUBLIC WORKS

by the south pier of the Harbour. I am therefore of opinion that no argument based on sanitary grounds, or on the efficiency of the batteries, should decide the question against the construction of the groyne.

As to the necessity for the groyne. I find that the mouth of the pipe is still open, & that pumping can therefore be carried on freely. The accumulation of sand is in progress, & the closing of the pipe mouth is only a

Groyne South of the Pumping Sta
near the Fort, Madras.—Directs the
struction of the —.

PW 76 1-

Madras Municipality.

1310

question of time. From what I saw, I should say that in three weeks or a month pumping will be impossible.

Mr Norosgood is fully alive to the necessity for pushing on the construction of the intercepting drain, but he does not expect to have it completed in less than six months, — and I cannot say that he asks for too long a time for the work.

In order to allow pumping being carried on while the

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1879) Madra

PUBLIC WORKS

PW46 1-6

Madras Municipality.

current & sand movement are from the south, either the pipe must be lengthened, or a small groyne built to the south of the pipe, as proposed. I recommend the latter course, as being both cheaper & less troublesome. A good part of the material is on the spot, & Thorowgood undertakes to complete the groyne in a fortnight or three weeks.

As there is apparently no necessity for immediate action I advised Pennycuick to let you know how matters stand, & the opinion we arrived at. I think he agrees with me in what I have written above.

His Grace takes a keen interest in every question affecting the Harbour & the drainage - and as he has already made some remarks about the construction of the proposed groyne, I think it will be better that he should know how matters stand at present, before decisive action is taken.

Groyne South of the Pumping S
near the Fort, Madras.—Directs the
struction of the —.

I advised Pennycuick
accordingly, and trust
that you will approve.

Yours sincerely

P.W. 46
No. 656

Madras Municipality,
Public Works Dept
~~EXECUTIVE ENGINEER'S~~ DEPARTMENT,
Madras, 20th March 1879.

1310
6

From
L. R. BURROWS, Esq.,
~~Acting~~ President Municipal Commission.

To
C. G. Master Esqre.
Ag. Chief Secretary to Government
Fort Saint George

SIR,

I have the honor to bring to the notice of His Grace the Governor in Council that Mr. Thorowgood Superintendent of the Madras Harbor Works has stopped the construction of the groyne to the south of the Main Drain Mouth near the Fort for the reasons stated in his letter dated 21st Instant No. 706 MH copy of which I enclose. Unless the groyne is proceeded with, the delivery pipe of the pump will in all probability be closed up in about a fortnight with the sand accumulating in front of the groyne to the north of the Drain, pumping will be again stopped and the old nuisance which has lately been considerably mitigated will be as bad as ever. The increase of the foreshore is certainly objectionable on Sanitary grounds, but it has been tolerated by the inhabitants of the town

Town hitherto in consideration of the benefit that it is hoped may accrue hereafter from the Harbor Works. The increase that will be caused by the small groynes now under construction will be trifling compared with what has been and will be formed by the Harbor Works, whilst the nuisance and inconvenience that will be caused to the inhabitants of South Black Town by the stoppage of the pumping will be very great.

2. I have therefore to request that Mr Thorowgood may be authorized to proceed at once with the construction of the groynes.

I have the honor to be
Sir,
Your most obedt Servant

L. R. Sands

President Munl Comn

No. 742

Forwarded to the Public Works Department for disposal.

Fort St. George
26 March /79
To the Public Works Department

C. Mastier
Offg Chief Secy

Financial Department
(Harbour Works Engineer)
1879
[illegible] 8/4/79

From
The President
Municipal Commission
Madras

To The Acting Chief Secretary
to Government
Fort St. George

Dated 25th March
Despatched 26 "
Enclosure 1
No. 656
Recd 26 March.

States that the construction of the Harbour Works groyne to the South of the Main Drain mouth near the Fort has been stopped for reasons stated & request under the circumstances that the construction be resumed With endorsement.

G.O. 4-2-78 No. 558 W
" 28-2-78 " 984 W
C.C. 12-3-78 - 1272
" 13-4-78 - 1826
G.O. 17-12-78 - 4774 W

Index 3547

Ans 28-3-79

1310/9

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

17th December 1878, No. 4,774 W.

Buildings and Roads.
Civil Works.

No. 178. Proceedings of Government, dated 17th December 1878, No. 4,774 W.

The attention of Government having been called to the nuisance arising from the efflux of the Black Town, Main Drain, immediately north of Fort St. George, which last year was overcome by the efficient arrangements carried out by the Municipal Engineer now rendered void by the accumulation of sand from the Harbour Works, His Grace the Governor in Council directs that the Superintendent of the Madras Harbour Works, in communication with the President of the Madras Municipality and the Municipal Engineer, will take prompt and energetic measures to remove (temporarily at all events) the evil complained of, the additional charges being met by the Harbour Works.

2. The attention of the President of the Municipal Commission is called to the condition of the mouths of the Triplicane and Kistnampett drains, which do not appear to receive sufficient attention. The experience of last year shows that with care the nuisance (which a few nights ago was very great) is easily controlled. It would therefore appear desirable that the persons in immediate charge of the drains should be punished when nuisance is permitted to arise from them.

(True Extract.)

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

To the Superintendent, Madras Harbour Works.
" President, Municipal Commission.
" Financial Department.
" Military Secretary to His Grace the Governor.

Exd. E. C. Shunker
Spare Copies.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1878) Madras.

PUBLIC WORKS.

To

THE SUPERINTENDENT, MADRAS
HARBOUR WORKS,
&c., &c., &c.

Dated December 17th.

Issued

Recd. *Encl.*

G. O., 17th *December* 1878, *No.* 4,774 W.

DECEMBER.

No. 178.

Black Town, Main Drain, immediately north of Fort St. George.—The Superintendent of the Madras Harbour Works, in communication with the President of the Madras Municipality and the Municipal Engineer, to take prompt measures for removing the nuisance arising from the efflux of the —; the attention of the President of the Municipal Commission called to the condition of the mouths of the Triplicane and Kistnampett drains.

TRAFFIC CODE FORM CI.

Class.	INDIAN TELEGRAPH.	Local No.
P		522

To (Station) Ootacamund

From (Station) Madras 6 P.M.

Words.	Time tendered for transmission. (Madras time.) Day.	H.	M.
18	28	17	22

Official Instructions.— 130/9

To (Person) Madras Works

From (Person) Ag Under Madras Works

1 Please	2 Send	3 orders
4 regarding	5 Municipal	6 drain ×
7 Not	8 much	9 time
10 to	11 spare —	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36

Recd. from ______ (L. L.) ______
At ____ H. ____ M., on the ______
By OOTACAMOND 28-4-79
Date ______

Sent to ______ (L. L.) ______
At ____ H. ____ M., on the ______
By ______ Telegraph Master.

(P. 1)—Govt. Tel. Press,—No. 1105,—21-2-78,—1000000.

Ar 28-3-79

Pr. 9th 5-79 No. 1310 Ir

Groyne near
Fort at Madras

Rd 28/4/79

[illegible]

To M.

Yes. Was circulated to the
Sen. Mem. only, but he
marked the Case to His
Grace who hasn't sent it
back.

A.S.P. 29/4

mouths of the Triplicane and Kistnam
drains.

r 28-3-79

1310/U

P. W. D.

Post copy of a Telegram

To: Ootacamund. Madras Works.

From Madras Ag: U.S. to Govt. P.W.D.

d/ 28 Apl: 79

Please send orders regarding Municipal Drain & Not much time to spare.

(Sd) John Pennycuick
Ag: Under Secy to Govt
P.W.D.

(True copy)

John Pennycuick Major R.E.
Ag: Under Secy: to Govt. P.W.D.

No. 706 M.

1

Madras Harbor Works Office
Madras 21st March 1879.

1310
12

To

J. A. Jones Esqre.
Vice President
Madras Municipal Commission

Dear Sir,

I have this day stopped the work of throwing out a groyne to the south of the pumping station near the Fort as I learn that the Military Authorities are likely to object to an increase of foreshore on sanitary grounds.

I shall be glad if you will find out whether I have power to continue the work and reply at an early date.

Yours faithfully
(Sd) F. N. Thorowgood
Supdt Madras Harbor Works

(True Copy)

L. R. Bunks.
President Munl Comn

JM

P. W. D.

Not to print

1314/13

Note.

The Chief Engineer is not aware of any objections having been raised by the Military authorities on the subject, and deems it ad-visable that the constructi of the groyne should be resumed as early as possible.

J. Manthwait
Col: R.E.
28/3.
Ag Chief Engr. P.W.D.

March/79.

Pr. 97-5-77 No. 1310 Dr.

1310/14

Endorsement in the Financial Dept. No. 742 d/ 26th March 1879 on letter from the President Municipal Commission No. 656 d/ 25th March 1879.

Note by the Chief Engr. P. W. D. d/ 28th March /79.

FOR ORDERS.

I think no measures sh'd be taken affecting the shore in front of Fort William communication with & convenience of Military —

28/3.

V. Mainthwart
Col: R.E.
Ag. Secy: to Govt.
P. W. D.

I think that the proposed groyne will simply effect a momentary alleviation at cost of a perpetual inconvenience — It is expressly intended to catch & detain sand which would otherwise pass on — its size is such that it will not gather more than a season's deposit and apparently if it had not been for the similar groyne put some months since North of the drain- the sand would probably pass on towards the Harbour groyne —

What is necessary is that every thing sh'd be done to prevent rather than encourage

FOR ORDERS.

~~the~~ accumulation & confine it as far as may be to the angle of the Harbour pier —

That whatever is done for the drain should be of a temporary nature ~~so that~~ that ~~the~~ work of diverting that sewage be pushed on to the utmost. 1/4

TO BE RETURNED WITH REPLY.

Cir 28-3-79

P. W. D.

No. 1281

Endorsement in the Financial Dept. No. 742 d/ 26th March 1879 on letter from the President Municipal Commission No. 656 d/ 25th March 1879.

Note by the Chief Engineer P. W. D. d/ 28th March 1879.

Referred to the Military Department for consideration with respect to the first sentence of the remarks by His Grace the Governor.

V. Manttemont
Col: R.E.
4/4.
Ag. Secy: to Govt. P.W.D.

4th April 1879.

To,
The Military Dept.
with papers.

Ex. E.A.S.

Mily: 1879 Dept

No. 2

From
The Pub: Works Dt.
1281.

D/4th April
R/5th — } E.4

Referring correspondence on the subject of constructing a groyne to the South of the main Drain mouth near the Fort.

To be returned with the Reps

No. 1942 Referred to His Excellency the Commander in Chief for favor of opinion.

Fort St. George,
5th April 1879.

To the Quarter Master General.

By Order,

Dy. Chief Secretary

Index 3547

QUARTERMASTER-GENERAL'S OFFICE,
Head-quarters, Ootacamund
9th April 1879.

No. 138
3132

1310
16

From

BRIGADIER-GENERAL H. O'CONNELL,
Quartermaster-General,

To

The Secretary to Government
Military Department
Madras

SIR,

In returning the papers referred to the Commander in Chief with your No 1942 dated 5th instant, I have the honor, by order, to state that anything that will increase the foreshore at Madras must be considered objectionable from a military point of view.

2. The Committee of Officers who fixed on sites for batteries for the protection of Madras, placed the batteries on the sand close to the sea, in preference to the higher ground slightly inland, in order to obtain a more favorable range, to the extent of 40 or 50 yards, for the guns. If the foreshore is largely extended seaward, these batteries will become useless.

3. The construction of the groyne to the South of the pumping station near the Fort, mentioned in the correspondence was co=

-turned will affect the increase of the foreshore very slightly, in comparison with the results produced by the harbour works - These will probably alter the configuration of the shore line considerably and in time render inefficient, against an Enemy's vessels at Sea, batteries that have been constructed at great expense - Future Military Expenditure on this account will be attributable to the harbour works and should be chargeable to them.

4. The remarks of His Grace the Governor, mentioned in Memo No 1281 dated 4th Instant from the Acting Secretary to Government Public Works Department, have not been received with the papers now returned.

I have the honor to be
Sir
Your most Obedient Servant
J.T. O'Connell Brigr Genl
Quartermaster General

15-4.

Military 1879 Department

No.

From

The Ch. Engineer

To

The Secretary to Govt.

Military Deptt.

Recd. 18/4

Dated 9th April 1879

Read 15th "

Regd 17th "

1 Enclosure

No 138/3132

States that any thing that will increase the foreshore at [illegible] must be considered objectionable from a military point of view.

Ootacamund

17th April 1879

No 2077 Transferred to the Public Works Deptt and the referred papers returned.

(By order)

Colonel

Secy to Govt.

Pro 97-5-79 No 1310 D

G.O. No 718 W - 11-8-79
" 774 W - 17-12-78
" 984 W - 28-2-78
" 458 W - 4-2-78
Letter 2153 of 1879
One Plan of Letter 1918/79

Re
Cir 26-4-79. Pld 30.4.79.
to Retg 24-4-

P. W. D

18

Note.

The position has been inspected by Colonel Shaw-Stewart and myself, and we are of opinion that the only means of enabling pumping to be carried on are, 1st the extension of the pipe seaward for a length of at least a hundred and fifty feet, and second the construction of a groyne to the south of the pipe.

Of these two methods the first will be by far the more difficult and costly and less certain in its effects; the latter is preferable on every ground.

We do not consider that there is any great objection to this course on account of the extension of the fore-shore caused by the construction of the groyne, because in any case the harbour itself will unquestionably cause an extension at the point in question considerably greater than that which the groyne will cause, and at the most the only effect of the latter will be slightly to anticipate this effect.

We find that as yet there has been no interruption to the pumping, but such interruption will take place in about a month more unless measures are at once taken to prevent it.

Mr Thorowgood says that he can undertake to get the groyne finished within three weeks of receiving the order to begin it, and as this gives us a few days to spare I have thought it better (with Colonel Shaw Stewart's concurrence) to refer the matter again before actually giving orders to put the work in hand.

We are convinced that the construction of the groyne is the best method of dealing with the difficulty, and if this opinion be accepted it is requested that I may be authorised by telegraph to ask Mr Thorowgood to put the work in hand.

It should be noted that it will only be during the present season that the groyne will be required, after this it will be rendered superfluous by the construction of the intercepting sewer.

S.

24-4-79

Fd 30/4

To Depty 24-4- Recd. 25/4

R.C. 25

Forward for the information of the Ch. Engr. by Col. Shaw Stewart & Major Pennycuick & of the Harbour Engineer

H.G. the Govt. [illegible] the papers be forwarded.

was issued

S. 26.4.79

To Honble. W Huddlest

1310/20

Extension of the Groyne South of the Pumping Station near the Fort Madras

Considering the urgen of this question I c -sidered it desirable t obtain the best availa opinion, and therefor taking advantage of the presence of Colonel Sha Stewart at Madras re -quested that officer and Major Pennycuick personally to examine and report on the matter at earliest convenience (vide my office note of 19th inst.

The joint conclusion of these officers regarding the immediate extension of the groyne (in which I myself concur) is trust [illegible]

and

As it may also be satisfactory to His Grace the Government to know more fully the grounds on which this decision is based I beg herewith to append a note received from Colonel Shaw-Stewart dated 26th April.

Should the extension of the forage remitted be sanctioned the requisite instructions will issue at once and a letter explaining the grounds of the decision be addressed to the Q.M. Genl of the Army for the information of H.E. the C in C.

R.H.
25/4/79

Memo

1312/21

To Major Pennycuick with a request that he will be good enough to issue the requisite instructions at once and submit draft reply to Qr Mr Genl for information of H.E. the C in C

30-4-79

-R.H. 2-5

Q.M.G. 1310/27

Sir

In reference to your letter No $\frac{138}{3132}$ of 9th April 1879 to the Secretary to Govt M.D. I have the honour to report for the information of H.E. the C. in C. that under instructions from this office the site of the groyne in question has been inspected by the officers named in the margin -

Col Shaw Stewart RE
C.E. for R.D.S.
Major Penny RE
As D.C.E.

These officers are of opinion that the construction of the groyne ~~is~~ will be by far the most effective as well as the cheapest and the simplest method of preventing the stoppage of pumping owing to the accumulation of mud at the mouth of the pipe –

They point out that the extension of the foreshore caused by the construction of the groyne will be trifling compared with that certain to be caused by the harbour works themselves, and that at the most the effect of the groyne will be to slightly anticipate an inevitable extension –

An intercepting drain the immediate commencement of which has been ordered will render the groyne superfluous after the present season, but

immediate measures are necessary in order that the pumping of sewage may be carried on, ~~th~~ and the course recommended is practically the only one available –

In the opinions above detailed I concur, and the Government have therefore directed that the ~~extension~~ construction of the groyne be immediately resumed –

D 2.5

For W.

Note –

I have drafted the enclosed reply in the form of a letter as directed – but would it not be better as a G. O.?

S. 2.5.79

Instructions have been sent to the Supt at Harbor Works to go on with the groyne –

Apve

Better as a G. O. dispose of accordingly

7/5/79

G O No 1310 W
7–5–79

Letter from the Dy. Sur. Genl. No $\frac{138}{3132}$ dd. 9th April 1879 and previous correspondence connected with the construction of a groyne South of the pumping Station near the Fort Madras

As the President of the Municipal Commn. in his No 656 of the 25th March lays such stress on the inconvenience likely to occur if immediate measures are not taken to prevent the stoppage of the pumping of the sewage at this point, and as His Grace the Governor considers that only temporary measures need be adopted for meeting immediate requirements instead of proceeding with the groyne I shall be glad if Colonel Shaw-Stewart and Major Pennycuick will after personal examination decide on what had best now be done, the latter issuing on my authority such instructions as may be considered requisite

to Mr [illegible]
so as to save further loss
of time – returning the
file and reporting action
for the information of Government

R.H.L.

19/4/79

Keep with 2653/79.

Later case —/79

2653.

1879.
2653

P2

From the President,
Municipal Commissioners
thro' Civil Dept:
No. 656 d/ 25/3/79

Brings to notice that the Supt. Harbour Works has stopped the construction of the groyne to the South of the main drain mouth near the Fort – the certain result being that the delivery pipe will be closed up by the sand accumulation in a fortnight's time.

1281 d/ 4-4-79.

Referred to the Mily: Dept: for consideration with remarks by ~~member~~ His Exce –

1879
C.W. 2335 R.3

Recd 7-5-79 No 1310 W

From Military Dept.
No. 2077 d/17 April 1879.

Transferring letter from the Quarter Master General

States that any thing tending to increase the foreshore is objectionable from a Military point of view, and that the eventual cost of moving the batteries in consequence of the accumulation to the South of the harbour must be debited against the harbour works; but that the increase of foreshore resulting from the groyne referred to by the Pres: Mun: Com: will be very slight compared with that resulting from the harbour itself.

Keep with 2335/79

Former case 2653/79.

To E.W.

For orders.
A plan of the beach is put up to show the position of the groyne.
It will be seen from G.O. No 718 W dated 11 March 1879,

that the present sewage
ame discharging into the harbour
a intercepting drain is to
formed, which is to
extended so far south
as to receive the sewage pumped
up near the East-side barrier
of Mr Parkes's letter recorded
with the procgs; and para 3
of the procgs themselves. –
The Governor appears to
consider that the groyne
is of little good, and
less harm inasmuch as
it catches sand which
would otherwise pass in,
and form part of the
main accumulation in
the angle of the harbour
pier; to which angle he
wishes the accumulation to be
confined, as far as possible.
He would prefer to relieve
the drain by some temporary
expedient, the work of
intercepting the sewage being
pushed on to the utmost.

J.S. 17/4

2653
3336 } extract to be printed
Note by Dy Ch Engr not to be printed

B.R.
Works

No. 1310 W. Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 7th May/79

Read the following:—

P.1

Note by the Dy Chief Engr P.W.D. of 21st Apl/79

Govt

Col Shaw Stewart, R.E.
Cy Engr for Rys
Major J. Pennycuick R.E.
Dy Ch Engr Irrn

The site of the groyne in question ~~having~~ has been inspected by the officers noted in the margin, ~~these officers~~ they report that the construction of the groyne will be ~~by far~~ the most effective as well as the cheapest and simplest method of preventing the stoppage of pumping by sand accumulation at the mouth of the pipe.

They point out that the extension of the foreshore caused by the construction of the groyne will be trifling compared with that certain to be caused by the Harbour Works themselves, and that at the most the effect of the groyne will only anticipate slightly ~~an~~ this inevitable extension

The intercepting drain, the immediate commencement of which was directed in the marginal Proceedings, will render the groyne superfluous after the present season, but immediate measures are necessary in order that the pumping of sewage ~~[illegible]~~ may be carried out, and the course recommended by Col Shaw Stewart and Major Pennycuick is practically the only one available

G O no 708 W of 11 March/79

Concurring in their opinion, the

1310/28 5

Governor in Council has directed the construction of the groyne to be immediately resumed

These Proceedings will be communicated by the Military Department for the information of His Excellency the Commander in Chief - with reference to the Quarter Master General's letter of the 9th April last.

No. 138/3132 5/5/79

N.E. 5/5

Revised copies Despd on the 29-5-79

Supt. M. A. Works. 3
Mily Dept. 15
Pul Dept. 7
17
Despd 13-5-79

Co 3336

Govt. of 1879: Madras.

PUBLIC WORKS.

To

Dated

Issued

Reg'd

Encl.

G. O., 7 May 79, No. 1310W

Nos. 39-40

Groyne South of the pumping
station near the Fort.
Madras Directs the
construction of the —