

Local & Munl. (1895) Department.

MISCELLANEOUS.

G.O., No. *848/m*

DATED *20th May 1895*

[Despatch Abstract.]

Water-supply.

Communicating to the Madura Municipal Council note by the Chief Engineer, Public Works Department, regarding the excavation of the channel in the Vaigai for more-----and request-
-ing the council to provide the necessary funds as soon as the estimate is ready.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

[7]

INDEXED. Miscellaneous.

LOCAL AND MUNICIPAL DEPT.

G.O., DATED 20.5.95

No. 848 M

When given for copying.

[Despatch Abstract.]

Water Supply

Came to the Madras
Municipal Council, note by the
Chief Engr. P.W.D. regarding
the excavation of the Chan-
nel in the Vaigai for more
—, and requesting the
Council to provide the ne-
cessary funds as soon as
the estimate is ready.

READ AGAIN ORDER OF GOVERNMENT, DATED
189 , No. , MISCELLANEOUS.

FURTHER PAPER, No.

OF 189 .

ENCLOSURES.

CURRENT No.

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
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Copied by
Examined by

Office of asst sanitary Eng^r
Southern circle

Trichinopoly 13th April 1895
Sept 14.4.95.

From,

H. a. Michie Esq, C.E.,
asst sanitary Engineer
Southern circle.

J. a. Jones Esq, M. I. C. E.,
Sanitary Engineer to Govt,
Madras.

Sir,

Madura water works.

I have the honor to inform you
I inspected these works on the 10th Instant.
The collecting channel & branches are now
finished and the supply of water ample
for the Town. in fact the inflow now is
almost exactly the same as the amount
pumped, the water level in the Pump well
hardly varying at all.

In the line of the channel there is
only one place where any bunker is reached
and that 5 feet below the bed level. I have
put the Tanjore Surveyor on to take sections
of the channel and also to make borings to
test the depth of bunker the whole way.

3 There is not very much increase of inflow in the branch channels, except at the head of each channel where there is a good amount of ooze - the last 100 yards of main channel has about $1\frac{1}{2}'$ of water standing deepening to 3 feet at the Filter Bed.

4 I found that the water did not filter through the sand quick enough - that is to say, water was actually passing over the barge wall while the conduit was half empty. This I put down to the slow rate of filtration through the great depth of sand -

5 The top sand for a width of 9' has been removed from the main channel towards the catch pit (400 feet) along the Filter Bed and to a depth of 3 feet - This had the immediate effect of increasing the supply to the pumps - There is still left 3' odd of sand above the gravel and it is by this portion of the Filter the present supply is being received.

6 An important point in connection with the channel is that next month freshes may be expected - the first freshes always bring down an immense quantity of silt the branch channels stretch right across the river so that the flood water would run straight down the collecting channel which would

would act as a silt trap as was proved by the few pits dug in the Filter bed last year, which got silted up & formed an impervious bed over the sand below & which had to be all removed. Some arrangement must be made for preventing this occurring again especially over the filter.

7 I would suggest that the depth of gravel in the filter be increased or that the portion now excavated over the Filter be deepened to say $4\frac{1}{2}$ feet, and 2 feet of gravel be put in. The channel itself for a length of say 1000 feet might be filled with mixed gravel for $1\frac{1}{2}$ feet height with a ^{tile} drain of 1 ft diameter running up it & filled in with sand. If anything is to be done in this respect, it should be settled immediately.

8 I would request your instructions as to whether you wish any steps taken towards filling in the channel, and the opening in the filter bed before the freshes come or whether you would leave the matter as they are & chance it.

9 I would personally rather see the filling done & I think it would be a good thing if the extra gravel be laid as suggested supra. I believe the failure of supply has not been so much due to insufficiency

water, as slow infiltration through the sand.

I have the honor to be,

Sir,

Your most obt. servt.

(Signed) H. A. Minchin, C.E.

Asst Sanitary Engr
13.4.95

'True copy'

[Signature]

Sanitary Engineer to Govt.

Ows.
30/8/95

1/353 misp

S. E. 19-3-95-1,000.

No. 1069

GOVERNMENT OF MADRAS.

OFFICE OF SANITARY ENGINEER,

Fort St. George, 17th April 1895.

From

J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E.,

SANITARY ENGINEER TO GOVERNMENT,

To

The Chief Engineer,

Public Works Department.

SIR,

I have the honor to send a report in reference to the Channel in the Vagai at Madras which you recommended should be excavated ~~in the Vagai~~ and which has since been so and which you will see now affords practically more water than the pumps take off.

I think Mr. Minchin's proposals should be adopted but I have no funds for the purpose and I therefore write to suggest, should you approve of the proposals, that you recommend to Government the work being done and the Council of Madras being requested to provide funds urgently on presentation of the estimate which I have ordered to be prepared but for which I do not delay this as the matter

103/600 of
18-10-94-

is urgent.

3. It is most satisfactory to know that sufficient water is being obtained from the Vigar with even temporary works of this nature.

4. It is not desirable I presume to propose permanent works such as a gallery up the centre of the river with a filter bed on either side of it along the line of the recently made channel. That would ensure plenty of water always but perhaps it may be well to delay consideration of this until the effect of the Srigar works can be seen.

I have the honor to be

Sir

your most obedient



Sanitary Engineer to Govt.

August 22nd 1895

P. W. D.

Letter from the Sanitary Engineer to Govt. No. 1069 dated 17th April 1895.

Note by the Chief Engineer P. W. Deft:—

I concur in the suggestion in para 7 of Mr. Minchin's letter, that the portion now excavated over the filter be deepened to $4\frac{1}{2}$ feet and two feet of gravel be put in; this will be a permanent improvement of considerable value, and I support Mr. Jones' recommendation that the Municipal Council should be asked to provide funds urgently on presentation of the estimate, which will probably not exceed £1000.

2. I do not consider it necessary to do anything

Towards preserving the
temporary channel, which
will certainly not be
required after the first
floods of the present
season.

(S.) John Cunningham
Colonel R.E.

Chief Engineer P.W.D.

Ootacamund }

April 20, 1895 }

Local & Municipal Dept.
CURRENT No. 1353 M

No. 29 D of 20 April 95

Transferred to
the Local and Municipal
Department.

John Cunningham
Colonel R.E.

Secretary to Govt. P.W.D.

To
The Local & Muni-
cipal Dept with letter from
the Secretary Engr &
order.

Urgent



Local & Municipal De

CURRENT No. 135

From

The Public Works Department

No. 29 D

Dated 21-4-95

Received 23-4-95

Enclosures

SUBJECT.

Transferring note by the Chief Engineer
P.W.D. regarding the excavation of the channel
in the Vigai at Madura for more water
supply.

C.S.
misc.

Order dt 20-5-95 No 848

Communicated to the muni-
cipal council, Madura, with the re-
quest that the necessary funds may
be provided as soon as the estimate
is ready.

V.N.
8/5/95

C.S.
14.6.95

17/5/95

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When copied
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When signed

189

READ AGAIN G.O., No.
189

DATED

CURRENT No.

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A A A A A A A

LETTER OF GOVERNMENT.

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To, The Chairman M.C. Madura
P.W.D. 14/5/95