K

[L. & M.
9,000-8-8-96.]

Local & Munl. (1895) Department.

MISCELLANEOUS.

G.O., No. 1312 M

DATED 12th August 1895.

[Despatch Abstract.]

Water-supply.

Communicating, with remarks, to the Municipal Council, Madura, Sanitary Engineer's letter regarding improvements to the Madura----works.

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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[7]

Miscellaneous.

LOCAL AND MUNICIPAL DEPT.

G.O., DATED 12-8-95.

No. 1312 M

When given for copying.

[Despatch Abstract.]

Water supply

Communicating with remarks to the Munl. Commi Madura, Sanitary Engineer's letter regarding improvements to the Madura —— works

BACK PAPER, No. P OF 189

REA AGAIN ER OF GOVERNMENT, DATED
189 , No , MISCELLANEOUS.

FURTHER PAPER, No. Acc 2761 In/95 OF 189

ENCLOSURES.

CURRENT No

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL (not paged).

N.B.—
A = Copy in full
B = Not to be copied.
P = Copy abstract only.
Q = Copy heading only.

Copied by

Examined by

LOCAL & MUNICIPAL DEPT.
CURRENT No.

Municipal Office
Madura 13th July 1895

No. 47

From,
R. Fischer Esquire,
Chairman,
Municipal Council,
Madura

To
The Chief Secretary to Government
Fort St. George
Madras.

Sir,

I have the honor to state, for the information of Government, that for the last 20 days the water in the Filter Bed* has diminished and that consequently the supply to the town has become irregular and uncertain. The Engine at the Pumping Station began work on some occasions at 5 o'clock in the evening and stopped by six or half past 6 o'clock owing to want of water.

In this connection, I would also bring to the notice of Government that the Collecting+ Channel referred to in G. O. No: 848 Mis: dated the 20th May 1895

+ Costing Rs. 1859-5-8

was

was washed away by the first fresher-
that came down the Vaigai some time
before the Chittrai festival and that make
shifts of this kind will cause great loss
to the Municipality.

I have the honor to be,

Sir,

Your most obedient Servant,

Chairman

13/7

(Kanendt)

an

th of

848 [illegible] 20-5-95

1995 [illegible] 74

189 .

LOCAL AND MUNICIPAL DEPARTMENT.

cal & Municipal

CURRENT No. 2283 M

TO BE RETURNED WITH REPLY.

C.S. Enclosure no. 1 to letter No. 2102 of 1895.

FROM

THE CHAIRMAN,

MUNICIPAL COUNCIL,

MADURA.

No. 1020 dy 25-7-95.

Referred to the Sanitary Engineer for very early remarks.

23/7/95 (By order)

W Francis

Ag ~~Assistant~~ Under Secretary

No.

ENCLOSURE. nil

Dated 13th July 1895.

Received 17 JUL. 95

V.R. 18/7/95

Fort St George
21st July 1895

SANITARY ENGINEER TO THE GOVERNMENT OF MADRAS
Register No 2553
25 JUL 95

No. 47.

SUBJECT.

Informing that the water in the Filter Bed Madura has gone down and that the Collecting Channel has been washed away causing loss to the Municipality

To S.E. on his return

To

The Sanitary Engineer.

(wt

Kanendt)

No. 740 Office of the Asst: Sanitary Engineer
Southern Circle
Trichinopoly, 13 April 1895.

From

H. A. Minchin, Esq., C.E.,
Asst: Sanitary Engineer,
Southern Circle

To

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 and 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 kunkar is reached and that 5 feet below the bed level. I have put the Tempore Surveyor on to take sections of the channel and also to make borings to test the depth of kunkar the whole way up.

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 $1\frac{1}{2}$ feet of water standing deepening to 3 feet at the Filter Bed.

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

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.

An important point in connection with the channel is, that next month

freshes

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

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 and filled in with sand. If anything is to be done in this respect it should be settled immediately.

Not sanctioned

I would request your instructions

as

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 matters as they are and chance it.

I would personally rather see the filling done and 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 of water, as slow infiltration through the sand.

I have &c.
(Sd) H. A. Minchin, C.E.,
Asst. Sany. Engr.
13-4-95.

'True Copy'

Sanitary Engineer to Govt.

2453 M of 95

S.E./6 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 Vigai at Madura which you recommended should be excavated and which has since been so and which you will see now affords practically more water than the pumps take off.

2. 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 Counci of Madura being requested to provide funds urgen by on presentation of the estimate which I have ordered to be prepared but for which I do not delay this as the matter is urgent.

3. It is most satisfactory to know that sufficient water is being obtained from the Vigai 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 Periyar Works can be seen.

I have the honor to be,
Sir,
Your most obedt
(Sd) J. A. Jones
Sanitary Engineer to Govt.

True Copy

Sanitary Engineer to Govt.

K.L.
W.W.

S.E./4 25-5-94—500.

Enclosure No. 2 to letter No. 2102 of 1895.

1895.

From

The Sanitary Engineer
to Government,

To

The Chief Engineer
Public Works Department

No. 1069

Dated 17
Despd.
Recd.
April 1895.

Enc. 1

Subject.

Channel in the Vigai to supplement Madura Water supply

—

Forwarding a copy of the report by Mr. Minchin on the — and requesting to recommend to Government that Mr. Minchin's proposals therein may be carried out and that the Council be made to provide funds urgently for same.

2/2453-May 96

From the Sanitary Engineer's No. 1069, dated 17th April 1895.

Note by the Chief Engineer, P.W. Dept.

I concur in the suggestion in para 7 of Mr. Minchin's letter, that the portion now excavated over the filter be deepened to 4½ 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 Rs 1,000

2. I do not consider it necessary to do anything towards preserving the temporary channel, which will certainly not be required after the first freshes of the present season.

(Sd) J. Pennycuick, Col.
Chief Engineer P.W.D.

Ootacamund
April 20, 1895

h.h.

No. 29 D, dated 20th April 1895

Transferred to the Local and Municipal Department

Sd/ John Pennycuick, Col. R.E.
Secy to Govt. P.W.D.

'True Copy'

Sd/ M.A. Jayarama Mudali
Hd Clk P.W. Secretariat

'True Copy'

Sanitary Engineer to Govt.

kal

No. 244 D

Government of Madras
Public Works Department

Memorandum

Dated, Ootacamund, 27th May 1895.

Adverting to the endorsement of the Sanitary Engineer No. 1415 dated 17th May 1895 on the subject of the Madura Water Works the Chief Engineer has the honor to invite attention to his note No. 29 D dated 20th April 1895 (Copy attached) which has been forwarded to the Local and Municipal Department. No further measures are considered necessary.

Sd/ John Pennycuick, Col. R.E.
Chief Engineer, P.W.D.

To
the Sanitary Engineer to Govt.

'True Copy'

Sanitary Engineer to Govt.

kal
lbh

Enclosure No. 3 to letter No. 2102 of 1895

Government of Madras
Public Works Depart.
Memorandum

No. 244 D, dated Ootacamund, 27 May '95.

Encl. 1

Madura Water Works

Forwarding a copy of note on the subject of —— sent to the Local & Municipal Department and stating that no further measures are considered necessary.

3
2453 M of 95

No. 1416 Office of the Asst. Sanitary Engineer
Southern Circle
Trichinopoly 21st July 1895

From
H. A. Minchin, Esq., C.E.,
Asst. Sanitary Engineer, Southern Circle

To
The Sanitary Engineer to Govt.
Madras

Sir

Madura Water Works.

Your No. 1576 D/ 29 May 1895.

In submitting for sanction an estimate amounting to Rs 2,200/- for repairing the Filter Bed at Madura and cutting a collecting channel to increase the supply to filters, I have the honor to state, the portion referring to the increased gravelling is prepared in accordance with Chief Engineer's (P.W.D.) note. The provision is for 450 feet length of the Filter Bed on the South Bank of the river to have all the sand filling removed and 2 feet depth of sorted gravel put in - sand being then replaced.

The excavation for collecting channels is also included in the estimate.

The

the former collecting channels having all been filled in by the freshes in April (vide my No. 740/13-4-95). There having been no freshes for some time and the Head Drivers having reported water failing – also telegraphing to that effect I had your No. 7/70 dated 1-7-95 to proceed with the channel work again and keep to supply from failing altogether. Work was started on a preliminary channel on the South Bank till the main channel was opened up. This was almost complete when you inspected the works on 12.7.95 and has since been fully finished including clearing sand over a portion of the Filter Bed where the mixed gravel is to be laid.

As the river may come down in flood at any time now, I request your early orders as to whether I may make arrangements to put in the gravel filling in anticipation of sanction of the estimate or to wait. If the sand silts up it will mean doing the work all over again.

You will notice I have kept the rates as low as I possibly can.

I

I have the honor to be,
Sir,
Your most obt. servt.
(Sd) H. A. Minchin
C.E.,
Asst: Sany: Engr:
22.7.95

True Copy

Sany: Engr: to Govt.

Rcd.

Lith.

4/2453. M of 95

S. E./6 19-3-95—1,000.

No. 7/106

GOVERNMENT OF MADRAS.

OFFICE OF SANITARY ENGINEER,

Fort St. George, 24th July 1895.

From

J. A. JONES, ESQ., MEM. INST. C.E., F.R.S.E.,
SANITARY ENGINEER TO GOVERNMENT,

To

The Asst: Sanitary Engineer,
Southern Circle, Trichinopoly

SIR,

I have the honor in the anticipation of the Chairman's approval to sanction the estimate amounting to Rs 2200 for opening out the channels in the Vgai to bring water to the filter bed and for putting in gravel as per Chief Engineer's note No 29 D dated 20" April 1895. A copy of my letter to the Chairman of the Madura Council is enclosed for your information.

I have &c.
Sd/ J. A. Jones
Sany: Engr: to Govt.

'True Copy'

J. Jones
Sany: Engr: to Govt.

Wsh
Lel

5
2463 M of 95

Madura Water Works

S.E. 18 30-10-94-500.

Abstract of Detailed Estimate No. , dated

opening ~~construction~~ of a collecting channel to bring water to filt

RAS.

NEER,

1895.

Quantity.	Description of Work.	Rate. RS.	Rate. A.	Rate. P.	Per	Amount RS	Amount A	Amount P	TOTAL. RS.	TOTAL. A.
306800	Cft of sand excavation for preliminary channel main channel and over filter bed.	3	"	"	Cft 1000	920	6	5		
39600	Cft of removal of sand below 4' depth	6	"	"	do	237	9	7		
18,000	Cft of gravel filling mixed size not exceeding 1¼"	5	8	"	100	990	"	"		
	Contingencies at 2½ %					52	"	"	2,200	"

'True Copy'

H Gue

Sany: Engr: to Govt

Grand Total of Estimate 2,200 " "

Asst
OFFICE OF SANITARY ENGINEER TO GOVERNMENT,
Trichinopoly ~~Fort St. George~~, 21st July 1895.

(Sd) H. A. Minchin
Sanitary Engineer to Government.

6/2453 30/7/95

S. E./6 19-3-95—1,000.

No. 1/105

GOVERNMENT OF MADRAS.
OFFICE OF SANITARY ENGINEER,
Fort St. George, 24th July 1895.

From

J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E.,
SANITARY ENGINEER TO GOVERNMENT,

To

The Chairman,
Municipal Council, Madura.

NO

SIR,

I have the honor to enclose an estimate for Rs 2,200 framed in accordance with the Chief Engineer's note dated 20th April 1895 No. 29 D copy enclosed. It will be remembered that the cutting of the channels previously sanctioned were completed on 14th April '95, but that a flood came down in May and filled them in again. In my letter No. 1069 of 17th April 1895 I sent in the following proposals of Mr. Minchin:—

"Para 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 4½ 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

1½ feet height with a tile drain of 1½ ft diameter running up it and filled in with sand. If anything is to be done in this respect it should be settled immediately."

2. It is a portion of this which the Chief Engineer approved of in his note above referred to.

3. Owing to a scarcity of water on 1st July '95 there was no other course open than to make immediate arrangements to open the channel again and of this Mr Minchin was requested to advise you which he did in his No. 1298 of 2d July 1895.

4. The work is under execution & as it is necessary to complete it at once in case of fresh floods (See Mr. Minchin's No 1416 of 22-7-95) and my reply I have ventured to accord sanction in anticipation of your approval which I now ask.

I have &c
Sd/ J. A. Jones
Sany: Engr: to Govt

True Copy

J Jones
Sany: Engr: to Govt

Lith

S.E. / 4 25-5-94—500.

Enclosure No. 4 to letter No. 2102 of 1895.

1895.

From

The Sanitary Engineer
to Government,

To

The Chairman,
Municipal Council,
Madura

No. 9/105

Dated 24th
Despd.
Recd.
July 1895.

Enc. 3

Subject.

Forwarding the estimate for Rs 2200 for opening out the channels in the Vigai prepared by Mr. Minchin & stating that he has sanctioned it in anticipation of approval

7/2453 10/9/95

Extract from the Proceedings of the Municipal Council, Madura, passed at the meeting held on the 23rd July 1895.

208 Read letter from the Asst: Sanitary Engineer, Southern Circle, requesting sanction for Rs 1000/- for digging a collecting channel in the Vaigai river.

Resolved that as these channels are being continually washed away by the freshes and as there has been a waste of money already, the sum asked for be not sanctioned.

(Sd) R. Fischer
Chairman.

'True Extract'
(Sd) R. Fischer
Chairman.

'True Copy'
(Sd) H. A. Minchin,
Asst: Sany: Engr: Southern Circle.

'True Copy'

Sanitary Engineer to Govt.

No. 738
Enc 1

Municipal Office
Madura, 26th July 1895

From

The Chairman, Municipal Council, Madura

To

The Asst. Sanitary Engineer,
Southern Circle.

Sir

With reference to your letter No. 1298, dated 2nd Instant, I have the honor to forward herewith copy of Resolution of the Municipal Council No. $\frac{208}{23.7.95}$ declining to sanction the amount of Rs 1000/- for the purpose therein referred to.

I have &c
(Sd) R. Fischer.
Chairman

'True Copy'
(Sd) H.A. Minchin, C.E.,
Asst: Sany: Engr:

'True Copy'

Sanitary Engineer to Govt

$\frac{8}{2453}$ M of 95

No. 1465
Encs 2.

Government of Madras
Office of Asst: Sanitary Engineer
Southern Circle
Trichinopoly. 29th July 1895.

From

H. A. Minchin, Esq., C.E.,
Asst: Sanitary Engineer, Southern Circle.

To

The Sanitary Engineer to Govt, Madras.

Sir,

I have the honor to forward true copies of letter and resolution received from the Chairman, Municipal Council, Madura for your information. This was with reference to my letter No. $\frac{1298}{2.7.95}$ in which I informed the Chairman that the excavation for the channel was necessary to keep the supply to the town sufficient and informed him it would cost about Rs 1000/-. This work is included in estimate for Rs 2,200 sanctioned to proceed in anticipation of the Council in your No. $\frac{1}{106}$ dated 24th July 1895

I have etc.
(Sd) H. A. Minchin, C.E.
Asst: Sany: Engr: Southern Circle.

'True Copy'

Ctk Sanitary Engineer to Govt.

$\frac{9}{2453}$ Mof 95

Enclosures to letter No. 2102 of 1895.

1895

From

The Assistant Sanitary Engineer
Southern Circle
Trichinopoly

To

The Sanitary Engineer to Govt.
Madras.

No. 1465
Dated 29 July 1895
Encs. 2

Subject

Forwarding two copies of letter and resolution received from the Chairman, Municipal Council Madura declining to sanction the estimate for information

10/2453 M of 95

S.E./6 19-3-95—1,000.

GOVERNMENT OF MADRAS.

No. 2102

OFFICE OF SANITARY ENGINEER,
Fort St. George, 31st July 1895.

Local & Municipal Dept.
No. 2453 M

From

J. A. JONES, ESQ., MEM. INST. C.E., F.R.S.E.,
SANITARY ENGINEER TO GOVERNMENT,

To

The Chief Secretary to Government
Local and Municipal Departm

SIR,

With reference to endorsement No. 1020 of 25th July 1895 (herewith returned) I have the honor to report as follows.

2. The channels cut in the sand to brin down additional water to the filter bed under th provision of G. O., No. 1870 M. Mis., dated 4th Dece -ber 1894, Local and Municipal were completed o the 14th April 1895. About the end of May howeve a fresh occurred in the river and filled them u again. For some time after that there was plen of water. When the above channels were comple and before the freshes came down certain proposa were made to the Chief Engineer vide my No. 1 dated 17th April 1895 copy accompanying, who w requested to advise Government to sanction th

G.O. 848 M.L.
20-5-95

This the Chief Engineer evidently did, but no orders were received and the Chief Engineer's attention was called to the matter who replied in his No. 244D, dated 27th May 1895.

3. Acting on this and without waiting for orders from Government I acted on my own responsibility and requested Mr. Minchin to go on with the work in anticipation of sanction of estimate and after visiting Madura on 12th July 1895 I wrote to the Chairman on 24th July 1895 enclosing a copy of the estimate (vide my No. $\frac{I}{105}$ of 24th July 1895.)

4. At present there is sufficient water and though I regret that the full proposals made by Mr. Minchin and myself were not sanctioned, it is trusted that the partial proposals made will ensure a sufficient supply until the Periyar Works are opened.

5. Meantime it might be advisable to have the plans and estimates ready for extending one of the branch channels of the Periyar Scheme to just above the filter bed in case that course might ultimately be desirable.

I have the honor to be,
Sir,
your most obt. servt.

Sanit. Engineer to Govt

This was communicated to the P.W.D., which apparently sent forward it to the S.E. from whom the proposal originally emanated – So the S.E. had not addressed Govt. till the orders were communicated [illegible] by the [illegible] Deptt.

↑

The P.W.D. never communicated with the Sanitary Engineer who is under another department – The Chief Engineer occasionally communicates with him, as with all other officers, Civil and Military –

1 Letter from Chairman, M. C. Madura No. $\frac{738}{26.7.95}$ with resolution.

2) Letter from the Asst. Sany. Engr. No. $\frac{1465}{29.7.95}$ to Sany. Engr.

P.S. – Since completing the above I have just received the accompanying correspondence as noted and the resolution of the Municipal Councillors, dated 23rd July 1895; the work is partly done as the Chairman was informed in my No. $\frac{I}{105}$ of 24th July 1895; he had complained to Government on the 13th July '95 previous. The means being taken are the only means except those additional proposed by Mr. Minchin and not sanctioned to continue a proper supply for the town. Were these further proposals sanctioned floods in the river would not affect the after supply as the subterranean channel of gravel and pipes would still remain; of course to put these in would be expensive and it is evident that the Chief Engineer considers that it is better to adopt temporary measures meantime seeing that the advent of the Periyar Water is so close at hand. I have therefore not stopped the work as it is so far advanced and a full supply to the town is dependent on its completion though of course in case of flood the open channel may be filled in again.

?

C.E. appears to be against any more temporary measures.

yes, now, as they are no longer necessary.

Sanitary Engineer to G

848 M 20-5-95
1870 M 4-12-94
1605 M 2-11-94
26 M 18-2-95
1094 A M 14-5-94

Cur 2277 L/95

No. 1895
CURRENT No. 2453 M

From

The Sanitary Engineer
to Government

To

The Chief Secretary
to Government
Local & Mun^l Dept.

No. 2102

Dated 31st July }
Despd. 1st August } 1895
Recd. 1 AUG. 95

Encs. 5 / 104 C. No 2283

Subject

Madura Water Works

Submitting his report on the ~~cutting~~ extraction of collecting channels in the river Vaigai to ~~bring down additional~~ increase the supply of water to the filter beds at the ___.

For orders.

Current 2283 M.
& 2453 M.

In para 7 of his letter recorded in G.O. 848 M. 20.5.95 the Hd. San. Engr. suggested that in order to meet the difficulty in getting a supply in the filter at the Madura water-works ① the excavation already made over the filter to let the water through more rapidly should be deepened to 4½ feet & 2 feet of gravel put in, and ② that the collecting channel running up to the filter-bed should have a 1 foot tile drain laid along it for 1000 feet & gravel laid down in it to a height of 1½ feet.

The San. Engr. sent the proposals to the Chief Engineer, who in a note dated 17th April approved of the first of them but not of the second, & sent his note to Govt.

Govt. approved his recommendation in G.O. 848 M. 20.5.95 & asked the Council to find funds (the C.E. said about Rs. 1000 would be wanted) as soon as estimate were ready. The order was sent to the C.M.C. Madura, &

848 M.M. 20-5-95
1870 M.M. 4-12-94

Cur 2277 M/95

to the D.P.W., the intention of L & M. being that the D.P.W. which had sent the San. Engr's proposals to Govt should also communicate to him the order on them. The D.P.W., however, did not send on the order, ~~[illegible]~~. but in reply to a request from the San. Engr. sent him a copy of the C.E.'s note. – The San. Engr. receiving no orders from Govt. & thinking that something must be done at once to keep the supply going, then sanctioned an estimate for Rs. 2200 sent up by the Asst. San. Engr. which provided for deepening the excavation over the filter-bed & filling up the hole with gravel, & also for digging out the supply channels.

The Municipal Council in reply to G.O. 848 M. / 20-5-95 allotted Rs. 1000 for the work approved by Govt. in that order, & asks for sanction, (vide Current 2277 M. in the linked file). But in reply to the ~~Chairman's~~ San. Engr's request for sanction to his estimate for Rs. 2200 for the purposes above, has replied (vide letters &

There seems to have been a misunderstanding here; the San. Engr's proposals were sent through the Chief Engineer who forwarded them with his note, through the D.P.W. to the L & M. D; it was for the latter to on his own responsibility, & without asking the sanction of either Govt. or the Mun. Council issue orders on the subject –

A mistake appears to have been made in consulting the Chief Engineer, who is unconnected with the P.W.D, which is a department of Govt –

4.10

The excavation of the temporary channel though of necessity the renewal after any considerable fresh, it was the only way of securing a sufficient supply of water – It will not be necessary in future –

This is what I have already recommended –

resolutions in the current) that these makeshift channels are always being washed away, & cost the Council much money, that it cannot sanction any more expenditure. Mr. Jones has nevertheless ordered the work to be comple

Owing therefore to the unfortunate muddle above explained Mr. Jones has spent Rs. 2200, while the Council declines to sanction more than Rs. ~~1200~~ 1000.

May the San. Engr's letter & explanation be now sent to the Council with the suggestion that in consideration of the facts that the gravel over the filter-bed ~~was~~ is a permanent improvement to the works, & that the excavation of the channel was carried out as being the only means of keeping the supply going, the Council should sanction the remaining Rs. 1200 spent?

With refce to para. 5. of current 2453 M. may not the San. Engr. be advised to wait until the effect of the Periyar water is ascertained before he proposes to undertake yet more expenditure in

Connection with this scheme?

W C 4.8.95

CN^os^ 2283 + 2453 ca

N/

CS/

~~Order~~ 12/8/95 No. 1312 Muni^s^

The San. Eng^r's^ letter will be communicated to the Muni^l^ C^l^ Madura.

2. The Govt. is of opinion that inasmuch as the gravel which has been placed by the San. Eng^r^ over the filter-bed is a permanent improvement to the water-works which has already been approved by Govt.; & that the deepening of the channels was carried out by him at a critical moment as the best means of preventing the supply of water from failing altogether, the Muni^l^ Council w^d^ be well-advised to sanction an allotment for the remainder of the estimate of Rs. 2200, for which it has already provided Rs. 1000.

3. The suggestion in para 5 of the San. Eng^r's^ letter may be deferred until the effect of the Periyar water upon the supply is more accurately known

To San. Eng^r^ ✓

C.M.C. Madura ✓

W C 9.8.95 (for orders)

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