L. & M.
2,000—12

Local & Munl. (1898) Department.

MISCELLANEOUS.

G.O., No. 1989 M. Mi.

DATED 25—11—98.

INDEXED.

DESPATCHED

[Despatch Abstract.]

Drainage:

Requesting the Sanitary Engineer to revise the plans and estimates submitted by Mr. Somers Eve, for the drainage of one of the blocks of the Ootacamund Main Bazaar, and also to submit complete estimates for the whole project, remodelling it, where necessary

BACK PAPERS.

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

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
Cur 1640 M/99							

Local & Munl. (1898) Department.

Reg. No. 2177
20 OCT. 98
TO THE GOVERNMENT OF MAD

CURRENT No. 2914 M

Sanitary Current No 562
Regd. 5-10-98
Encs. 9-

TO BE RETURNED WITH REPLY.

1128 d/ 4-10-98

~~**Order**~~

Referred to the Sanitary
ard for very early remarks.

By order

A Edgington
Ag Assistant Secretary.

K.P.
28/9/98

To
The Sanitary Board.

K.P.
13/9/98

From The Sanitary Commissioner for Madras.

No. 2026/S

Dated 12 September 1898.

Received 13 SEP 1898

Registered

Enclosures - 5

Spare copies.

SUBJECT.

Forwarding a note upon the Ootacamund drainage Scheme.

BACK PAPERS.

G.O.	No.	Department.	Date.
Go ✓	1441	Mis	13-8-98
〃 ✓	1028	Mis	8-6-98
〃 + ✓	752 ×	✓ Mis	13-4-98
〃 × ✓	306 ×	Mis	9-2-98
〃 × ✓	314 ×	Mis	3-2-98
〃 ✓	119 ×	Mis	18-1-98
〃 ✓	2565 ×	Mis	19-11-97

~~FURTHER PAPERS.~~

G.O.	No.	Department.	Date.
〃 + ✓	2189 ×	Mis	8-10-97
〃 + ✓	5-99 ×	Mis	18-3-97
〃 ✓	303 ×	Mis	26-2-97
〃 + ✓	107 +	Mis	27-1-97
〃 ✓	107	S.C	27-1-97

2
S.C. No. 607 of 98

2

Ootacamund Drainage Scheme.

Notes taken on Drainage of Manual Pillay Street grou

(1) Butchers' Centre Road or lane.

There is a fountain in the upper Bazaar Road to the left of this lane - Lane centre line is 6 feet from the fountain.

The breadth of the lane from wall to wall is 13 feet. There are storm water drains on both sides, at present carrying sewage from houses Nos 19, 21, and 40 and also fro beef stalls - The meat and entrails are washed here every day. It is proposed to carry the pipe sewer in the centre of the street between the existing drains - There will be a Man Hole at the head connected with Flushing Tank in the upper Bazaar Road by means of a 4" Pipe.

Drains from Houses Nos 40 and 19 are at 71 feet vide section

The connections with the pipe sewer should be at 74 fee

On the left side sewage from House No 21 should be taken in the sewer at 93 feet - Total distance from Ma Hole to Man H in the Main Bazaar is 132 feet - The open drains need not be disturbed except in places where the 3 house connections cross them and whe the 6" pipe crosses the storm water in the main Baza road. Total length of existing open drain to be remov and reconstructed is about 20 feet.

2. Right side Lane from the upper Bazaar Road. The water service tap is at 26 feet to the left of this lane. The Flushing tank can be connected with a Man Hole at the head of this line by 4" pipe like the centre Butchers lane sewer. The lane is only 4 feet broad and from wall to wall up to a length of 41 feet.

House No 43. Should join Sewer 25 feet, the present drain from it enters the open storm water drain at 18 feet.

House No 42. Connection. None at present but there should be one provided at 33 feet.

Right side House No 46. Has two connections, one from cook room and the other from Latrine at 31' and 39' respectively. They should join the 6" Pipe Sewer at 38 feet and 46 feet respectively.

L. S. House No 41. Has connection at present at 41 feet. It should join sewer pipe at 47 feet.

L. S. House No 40 Has Connection in the centre line. Already dealt with.

L. S. No. 39. Has connection at 59 feet at present; must join the 6" pipe sewer at 65 feet.

L. S No 38. Has connection at 74 feet. Its connection must join Pipe line at 82 feet.

Lane only 6 feet broad from wall to wall.

L. S. House No 37. Has connection at 79 feet. The future connection will be at 87 feet in the 6" pipe sewer.

L. S. House No 36. Has 2 drains connected at 8 and 94 feet of the open storm water drain. They should be made to join sewer at 93 and 100 fee respectively. Breadth of lane between boundar stones is 6' 6".

L. S. House No 35. Has connection at 113 feet at present. It should join 6" Pipe sewer at 119 feet.

R. S. House No 34. The drain from this now joins at 43 feet. The connection will be at 43 feet in the pipe line.

R. S. No 33. The drain of this joins at 54 feet. It may join 6" sewer at 54 feet.

R. S. House No 32. The drain now joins at 6 feet. It should join the 6" pipe sewer at 63 fee

R. S. House No 31. Has 2 connections, one fro Latrine (above) and the other from Cook room (be at 115 and 124' respectively. They should join th pipe sewer at 121' and 130' respectively.

A. lane leads from here to the centre Butche lane (1) L. S. House No 30. Has connection at pre at 134 feet. The distance from drain wall is

whilst leave, that
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The Connection with the sewer should therefore be at 136 feet.

L. S. House No 29. Its drain joins the open storm water drain at 140'. Should join 6" pipe sewer at 142 feet. This house has got another drain which joins the existing open drain at 151 feet. The owner does not use it.

There is only one storm water drain in the Centre of this lane. Total length is 168 feet to centre of main Bazaar road. 64 feet in the length should be dismantled and rebuilt wholly and about 30 feet drain for house Connections.

The number of connections is 18. Length of 4" pipe for house Connection is 18" × 8 = 144. running feet. The number of house Connection valves is 18. feet The curved 4" pipes required for joining the principal sewer is 18. Total length of 6" pipe sewer will be 168 + 42 up to Man Hole proposed to e built at the head of Manual Pillay street. 4. Curve pipe will have to be used at the turning. The head of this lane is very narrow. When digging a trench, wooden struts and Walings will have to be used to avoid walls of houses sinking

3. Left side Butchers' Lane.

Breadth of Lane. 5' 9" or 5 feet on an average. storm water drain passes on the Centre of the

---

lane. It will have to be removed and relaid for laying 6" pipe sewer below.

A man Hole will be built at the head and an at 83' of this tributary sewer.

R. S. House No 17. Has at present Connection at This is a Latrine, the flow of which is 9" fro ground. Pipe sewer must Commence from here. There is no place for a Man Hole or a Flushin Tank here.

R. S House No. 20. Has Connection in the exist open drain at 5 feet. It should be at 14' feet in the Pipe line.

R. S. House No 21. Has Connection in the open drain at 15' feet. The same will join sewer at 19 feet.

L. S. House No 16. Drain from this joins the ope drain at 21 feet. The house Connection will be at 27 feet.

R S. House No 22. The drain joins at 24 feet. The future house Connection will join 6" sewer at 30 feet.

R. S. House No 23. The drain joins the centre drain at 34'. The house Connection will join sewer at 40'

R. S. House No 24. Has Connection at 53 feet in the open drain. The same will join at 59 feet.

L. S. House No 14. The drain from the house join at present the main storm water drain @ 63 feet.

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It should join the 6" Sewer at 69 feet.

R. S. House No 25. The drain joins the open drain t 66'. It should join the sewer at 72-

R. S. House No 26. The drain from this joins open storm water at 76 feet; should join sewer at 80 feet.

R. S. House No 27. The drain from this house is 5 feet above the open drain. The Sewage falls into it from that height at 83 feet. House Connection will be at 83 feet in the Man Hole proposed to be built at this point.

R. S. House No 28. The drain from this house falls into the open drain from a height of 7 feet at 95 feet. The house Connection should join the Sewer. The total length of this line up to drain the main Bazaar is 109 feet. It should be taken 6 feet into the Main Bazaar road curved and thence taken to Main Man Hole at an angle. The total length will be 140 feet.

The number of House connections is 11, two on the left and 9 on the right side Length 11 × 8 = 88 feet. The number of traps is 11. and Curve pipes 4" is 11.

The length of open storm water drain to be removed nd relaid is 109 feet. One intercepting trap will be laid at 80 feet of this tributary Sewer.

Main Sewer 9"

Manual Pillay street.

A large Man Hole to receive ~~renews~~ the 6" pipe branch sewers will be constructed on the Main Bazaar road. Site marked with a peg. From this Man Hole, the Main 9" pipe sewer may run parallel to the existing open, stone drain (not to be disturbed) which is 1½ feet from the Walls of houses. The Sewer is to be constructed outside this limit and parallel or side by side to the storm water drain. It commences at 10 feet from Man Hole from left side drain in the main Bazaar. At 43 feet from (1). Man Hole in the main Bazaar Road or from the Head of the 9" main sewer, a branch 6" sewer from Meanji Sait lines joins. This will be made to join in the main 3 feet lower down in (No. 2) Man Hole to be constructed ie at 46 feet. At 83 feet. A. Small man-Hole 5½. (No. 3) will be built to receive 6" branch sewer carrying the sewage of a portion of Abboo sait street from Edulji street downwards.

R. S. House No 10. The Connection from this house should join the 9" main sewer

whilst were on leave

it 109' feet. At present its sewage goes down by a separate drain to Beef Butcher's Road. The length of the Connection is 35' feet.

R. S. House No 11. The connection from this should join at 115 feet in the 9" Main Sewer. The length of this house connection is also 35 feet. Another Man Hole (No 4) will be built between the one opposite to Abboo sait street and that opposite to Karuppanna Pillay street. (No 5) This is to step down the high gradient existing here.

L. S. At 170 feet. House connection at present joins open storm Water drain. It should join main 9" Sewer at 172.' feet. The length of house connection 4" Pipe will be 14 feet.

House No 6.

At 212 feet. The branch line from Karuppanna Pillay Street and the lane from above joining it will enter the main sewer in Man Hole (No 5.)

L. S. House No 13/46. The drain from this joins the existing open drain at 238 feet, but the future house Connection will be Connected with the Sewer at 240 feet. The length of the Connection will be about 11 feet.

L. S. House No. nil. There is no proper drain from this house. Carrying sewage, but there is

a hole left to Carry the washings. The house Connection will join main Sewer at 264 feet.

L. S. House No 5. Joins at present open drain at 265 feet, but the house Connection will be at 266 feet. The length of the Connection is 10'.

R. S. House No 46. The drain from this house joins open drain at 288 feet. The Connection will be at 294 feet L = 15'. A small branch 45 long Carrying the Sewage of houses No 47. + 46 will be taken to Man Hole No 6. in the lower Bazaar. This Man Hole will be built at a distance of 324. feet and it will also receive a tributary 6" Sewer from Edulji sait street. which Carries another branch from a narrow lane coming from Karuppanna Pillay street. along a very narrow and from the Man Hole (No 6) to Man Hole (No 14) on the 12" Main the distance is 93 feet.

The total distance of 9" Pipe sewer in Mannal Pillay street is 432 feet.

House connections are 9. length is 110 feet. Valves required are 9. and curved 4" pipes 9. Branches 3 at the head and 5 in its Course. These will be severally reported on.

Branch. No 4.

Meanji Sait Lines.

A flushing cistern to 100 gallons of water will be built at the head of this line. It will be fed from water supply pipe in the Manual Pillay street. The length of 1" lead pipe is 95 feet. At the head of this line is a house connection from House No 46 which faces Attor Sait street.

R. S. House No 157 - Facing Main Bazaar street. The drain from this house joins at 6 feet the open drain. It should join 6" pipe sewer at 11. feet.

R. S. House No 156. The present drain joins the storm water. Drain ~~water~~ at 18 feet. The house Connection should join 6" Sewer at 24 feet.

L. S. House No 45. Has Connection in the Existing open stive drain. The house Connection will join sewer at 28 feet.

R. S. House No 155. The drain from the house joins at present at 29' feet. The house Connection will join 6" sewer at 35 feet.

L. S. House No 44. The drain from this house joins open drain at 38 feet. The house Connection proposed will join sewer at 42'.

R. S. 154. The drain from this house joins open drain at 43 feet. The house Connection will be made to join 6" Sewer at 49 feet.

L. S. House No 43. Has Connection at 49 feet in the open drain. The house Connection will join 6" Sewer at 53 feet.

R. S. House No 153. Has Connection in the open drain at 58' feet. The house Connection will meet Sewer at 64 feet.

L. S. House No 42. The drain from this runs into the open drain at 60 feet. The house Connection will be at 64 feet.

R. S. and L. S. Houses Nos 152 and 41. Join open drain at 71 feet. The house Connections from these houses opposite to each other will be at 76. and 78 feet.

R. S. House No 151. The drain at present falls into open drain at 84 feet but the house Connection should join 6" pipe sewer at 89 feet.

L. S. House No 40. This house drain joins open drain at 87 feet. The house Connection will meet 6" sewer at 90 feet. Total length of this branch is 98 feet to small man Hole (No 2). Proposed to be Constructed opposite to this alley.

House Connections are 14 each 8 feet long or 112 feet 5 from the left side and 9 from the right side.

House traps required are 14 and curved 4" pipes required are 14. Open drain in the alley 95 feet long should be removed and rebuilt for laying 6" pipe sewer below. There is space at the end of the alley to construct the Flushing Cistern. It will be 4' × 2½' × 2½' or 25 cubic feet inside.

Abboo Sait street.

Branch

Pipe 6"

The drain in the lane from Meanji Sait line joining the main open drain in the Abboo Sait street may be allowed to stand as it is. It carries at present sewage from 3 houses Nos 45, 46, & 157 in the former which will be connected with sewer there. A Flushing tank to hold 300 gallons of water will be built at the head of this tributary sewer.

R. S. House No 44. This has 2 connections one in the Meanji Sait line and other in this. This is the head of this branch and will be at 61 feet from the Man Hole (No 3) in the main line of 9" pipe. Sewer R. S. House No 43 similar to above occupied by 2 tenants. The drain joins at 51 feet. The

house connection will join 6" sewer at 43' feet.

R. S. House No 42. Similar to above, occupied by 2 tenants. Has connection in this street open drain at 32. It will join sewer at 24' feet.

R. S. House No 41. Has double tenants one in Meanji lane and the other in this. The drain here is connected @ 22'. It will join the 6" sewer at 14'.

R. S. House No 40. Has double tenants. The drain joins at present at 12 feet. The house connection will join sewer at 4 feet.

The branch empties into Man Hole (No 3) on the main 9" sewer.

Total length is 61 feet. There are 5 house connections all on the right side. Lane is 7 feet broad. The stone storm water drain in the centre should therefore be removed and relaid in this length for laying 6" pipes below it. Each house connection is 8 feet long exclusive of trap and curved pipes. Running feet of 4" pipes required 5 × 8 = 40. House trap 5. Curved pipes 5.

Karuppanna Pillai street.

Branch 6" Pipe.

A branch from an alley to the South of Periannah Pillay's house No 39 should join at Karuppannah Pillai street in small Man Hole (No 7) which should join with Man Hole (No 5) in 9" Main Sewer opposite to the street at 212 feet.

Alley

At the head, sewage from house No 9 A in Manual Pillay street joins the open drain. The Flushing tank in the Abboo sait street will be connected by means of 4" Pipes with the head of this tributary.

House No 9. Facing the Manual Pillay street at present joins open drain at 3 feet. The house Connection will be at 9 feet in the 6" Pipe sewer.

L. S. House No 4. Facing the Edulji street has 2 Connections in the open drains here one from Kitchen runs through an open ground in the yard of an adjacent house in the alley and drops into open drains at 32'. This may join the proposed sewer at the same point. The length of this Connection will be 48 feet and the cost should be borne by the owner.

The existing open drain should be so lowered as to catch all storm water from the yard above mentioned. The other Connection is from the Latrine of this house No 4 is at 10. The future Connection with pipe sewer will be at 19 feet.

House No 8. Facing the Manual Pillay street The drain joins at present at 15 feet. The house Connection will be at 23 feet in the 6" sewer.

L. S. House No 45. The sewage from this house runs into the drain from House (No 4) mentioned above. This must be made to enter the 6" sewer at 34 feet.

R. S. House No 7. In the Manual Pillay street the drain runs into the open drain at 41 feet. The house Connection which will be 20 feet long will be made to enter sewer at 44 feet.

R. S. The same house has a latrine the savage should be connected with 6" pipe sewer at 39 feet. The length is 9 feet. The owner will bear cost of laying 29 feet of 4" pipe with necessary traps and curved pipes.

L. S. House No 44. Has drain connected at present at 47 feet. The house connection will enter 6" Sewer at 53 feet. The length of the House Connection is 10 feet only.

R. S. House No 6. In the Mannat Pillay street. Has at present 3 drains running into the Open drain, the first from the Latrine at 51 feet the second from the kitchen at 66 feet and the third from the yard floor at 76 feet. These should join 6" sewer at 58,' 73' and 83 feet respectively

L. S. House No 43 Has no distinct drain, but sewage is passed down the street through a hole under door way into the drain at 56'. Another branch comes from behind the house of Periamma Pillay carrying the sewage of 3 houses. This should join the 6" sewer in the alley at 59 feet where circular man Hole No 6 will be built

Hro Branch

R. S. House No 40. The drain should start from this house.

R. S. House No 41. The drain from this house has connection in the Stormwater drain at 32'. The House connection will be at 23 feet.

R. S. House No 42. The house drain at present falls into the open drain at 22'. The house

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connection will be at 13 feet in the 6". The lane is only 3 feet broad. The foundation shou be supported by walings and struts. Open drain 40' long should be taken out and relaid after 6" sewer branch is constructed.

Total length of the 6" pipe sewer in the alley is 135 feet up to Man Hole No 7 in the Karuppannah Pillay Street.

Karuppanna Pillay street drain proper.

The distance from this Man Hole (small) to Ma hole No 4 on the main sewer line is 42 feet. There is no house connection except a drain from the latr of house No 48. This may be taken into Man hole which is near. It is 3 feet from junction. The breadth of the lane is 9 feet. The open drain need not be disturbed, as the sewer can be lai on the right side between it and the wall.

The total length of this main branch including the minor branch behind the Perimma Pillay's house is 175 feet.

The number of house connections is 13. Their tota length is 172 feet exclusive of the length of the hous traps. Man hole No 7. can be flushed from the. Flushing tank No 4 in this Street.

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my office

Lower Bazaar Road

Pipe 6" Sewer.

The commencement of this line is from a drain from Latrine attached to house No 42. The distance is 96 feet to Man Hole No 6.× opposite to Mannal Pillay street. The length of the Connecting Pipe is 9 feet and the same should join sewer at 92 feet. At 92' in the existing open drain, a branch open drain carrying sewage from about 10 houses is carried underneath a house. It will be inconvenient to get at this when 6" pipe sewer constructed below the house. This will therefore be devided into 2 sections, one from the said house will be taken to Periannai Pillay street and on to Edulji Sait Street 9" Main. The other 42' long carrying sewage of 2 houses will join the sewer here at 89 feet. The Connection from house No 43 will join this branch at 7 feet of this line. The lane is only 3 feet broad.

R. S. House No. 43. Has another drain joining the open drain at 83' feet. This will be made to join sewer at 76 feet. The same will be 10 feet long including traps.

R. S. No 45. Has a second drain joining at 57 feet. It will be joined to small Man Hole No 9. to be built at 52'. The same will be 9 feet long.

At 52 feet the small Man Hole No 9 will receive the branch sewer from Karuppanna Pillay Street along Allam Saib Sait lines.

House Nos 1 to 4. In the Mannal Pillay street have 2 drains joining at 37' and 9 feet of the open drain. The one should join sewer at 31' feet and the other the Man Hole on the Main.

Total length of this line is 96 feet. House Connec are 6 length 48 feet.

Branches 2. one is 42 feet. long with 2 House Connections. The other is 123' long and has 15 hous connections.

Branch from Karuppanna Pillay street along Narrow lane joining lower Bazaar road drain at 52'.

Flushing Tank No 4 built at the head of this line

L. S. House No 49. Has no connecting drain at present. One should be made at 7 feet from the end of the line. The whole Range of buildings enter open drain at 7', 16', 24', 31', 38', 46', 56', 65', 72', & 7 should be provided with house connections at 15', 24', 32', 39 46', 54, 64', 73', 80, 87, respectively in the sewer.

R. S. House No 48. in the Karuppanna Pillay Street has a drain at 41 feet. The same should join sewer at 49 feet.

whilst are on leave, that

L. S. A. Masonry ~~main~~ carrying the sewage of houses Nos 44 and 45 in the Lower Bazaar Road joins at 84 feet. This will join the proposed sewer at 84 feet. The house connection length is 11 feet.

R. S. No 5. In Mannual Pillay street has 2 Drains to be connected with sewer. The one is from Latrine at 91 feet but will join sewer at 99 feet. The other is at 97 feet but will be made to join the Sewer at 106 feet. The breadth of the lane is 3 feet wide to a distance of 84 feet and 1½ feet wide for about 40 feet. The total length of this branch sewer is 123 feet it joins in Small Man Hole No 9 in the Lower Bazaar Street. As the lane is very narrow it will be well to build one Man Hole at the head of the line, so that it may facilitate inspection. The Flushing tank will be built close to it.

There is an open drain cut in slabs laid all along this lane to carry the sewage at present. It should be removed and relaid when laying the Pipe sewer. The walls should be supported with Wailings, and trussed when digging trenches. The No of house connections is 15. and the aggregate length of these may be taken at 120 feet. 15 Traps and 15 curved 4" pipes will be also required.

Summary.

The main line of sewer will be of 9" pipe 432' long with 6 Man Holes on the same.

All the tributary sewers including house connections will be of 6" pipes. Tributaries are 8 in number with the aggregate length of 1107 feet. 9 Small Circular Man Holes are provided for on these.

There will be ~~of~~ 7 branch pipes in the main line and 86 in tributaries for house connections. 10 nine inch curved pipes and 9 six inch pipes will be wanted.

Dated 22nd Decr 1897 }

C. N. Subramania Iyer

Supervisor P. W. D.

SUPDG. ENGINEER'S OFFICE P.W.D.
No. 311 M
2 APR. 98
Encld 4
FOURTH CIRCLE

SANITARY ENGINEER TO THE GOVERNMENT
Reg. No. a 2177
20 OCT. 98

6 / S.C. No 562 of 98.

8 / S.C. No 607 of 98

[illegible]

3 / 2914/M/98

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23

Superintending Engineer's off
Fourth circle
Camp. Ootacamund.
Dated: 21st April 189

From,

A. H. Garrett Esqre
Superintending Engineer
IVth circle
Coimbatore

Enclosures. 11

3 estimates
1. Report
1. Notes.
6. Plans.

To,

The Chief Engineer
P.W.D.
Ootacamund.

Sir,

I have the honor to forward an estimate in connection with the Ootacamund drainage scheme.

2. In chief Engineer's memo dated 3rd March 1897 Mr Somers Eve was directed to report himself to the Superintending Engineer for instructions regarding the carrying out of the improvements sanctioned in G.O. No 378 W d/ 8.3.97 and the drawing

for departure on l ... me, be-
whilst my off ... that

drawing up of a complete drainage scheme for Ootacamund.

3. The estimate now received deals only with a portion of the bazaar, and if it is approved a complete estimate on similar lines can it is said be got ready in a short time. The estimate has been carefully prepared in general accordance with Mr Ashpitel's recommendations which have already been approved, and the Executive Engineer has been requested to proceed with the preparation of the complete estimate without waiting for the further orders of Government.

4. As pointed out by Mr Somers Eve house connections are indispensable to the success of the scheme, but they might as well be omitted s left to the house owners to provide.

25

5. A sewage farm ought to answer admirably provided sufficient land in a convenient locality can be obtained.

6. I support Mr Somers Eve's recommendations in para 18 that the main branch pipes should where necessary be laid at a 1 in 10 slope in preference to the other arrangements shown in plan No II.

7. The drainage scheme cannot be considered complete so long as drainage is admitted into the lake, and this will be the case until old Ooty, Kodappa mund and Vannarpet are connected with the system now brought forward. The population of these three suburbs is according to the last census 1300.

8. The estimate and plans have been

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that

ceipt of the [illegible] was in re

been kept a considerable time after their receipt from Mr Somers Eve, in consequence of my having been on tour and to save delay they are submitted without being first checked in my office.

I have the honor to be
Sir
Your most obedt Servt.

Superintending Engineer
IVth Circle

2
29/4/M/98

eparture on
whilst

27

P. W. D. Cho. # 207

From

The Superintending Engineer
IV circle

Rd 12 May 1898
Repr 14-5-98
Enclos. 11 (6 plans)

To The Chief Engineer
P. W. D.

Dated 21 April 1898.

No.

Subject

Ootacamund drainage scheme

Forwards estimates in connection with

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SANITARY EN... TO THE ...
Reg. No. 2177
20 OCT. 98

1 / S. C. No. 5620f98

9 / S. C. No. 6070f98

OS / 25

32

7. The undersigned would, in conclusion, remark with regard

[2,000—18-2 98.]

28

No. 2026/S

OFFICE OF SANITARY COMMISSIONER,
Fort St. George, 12 Septr 1898.

From

SURGEON-LIEUT.-COL. W. G. KING, M.B., C.M., D.P.H.,
SANITARY COMMISSIONER FOR MADRAS,

To

THE Secretary to Government
Local & Municipal Deptt

LOCAL & MUNICIPAL DEPT.
CURRENT No. 2914 M

Enclosure.

SIR,

In forwarding a Note upon the Ootacamund Drainage scheme, I have the honor to express regret for the delay which has occurred. It had been understood by me, before departure on leave, that whilst my office was in receipt of the papers [illegible] mates, [illegible] ~~(7 plans)~~ plans not received –

Spare copies

SUBJECT.

Constructing pipe sewers in the Mannal Pillay street group of the Ootacamund drainag[illegible]

[illegible] report. The sewers, if run in one grade from manhole to manhole, will have, as pointed out by Mr. Somers Eve, a high velocity. This velocity is

32

7. The undersigned would, in conclusion, remark with regard to para 29 of Mr. Somers Eve's report that, it is feared, that the open drains proposed to be used for storm water will be no

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C/2

Local & Municipal 29

~~Public~~ (1898) **Department.**

CURRENT No. 3473 M.

SECY TO GOV

12 NOV 98

Order

From

The Secretary, Sanitary Board

No. 669/S

Dated 11th Nov 98

Received

Registered 2 + 2914 M of 98 returned

Enclosures ~~17 (7 plans)~~ plans not received -

Spare copies

SUBJECT.

Constructing pipe sewers in the Mannal Pillay street group of the Ootacamund drainage

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in report. The sewers, if run in one grade from manhole to manhole, will have, as pointed out by Mr. Somers Eve, a high velocity. This velocity is

BACK PAPERS.

G.O.	No.	Department.	Date.
Ent 1128/98 c			

FURTHER PAPERS.

G.O.	No.	Department.	Date.

32

7. The undersigned would, in conclusion, remark with regard to para 29 of Mr. Somers Eve's report that, it is feared, that the open drains proposed to be used for storm water will be no cleaner than they are now; their design is not suited to that

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Sanitary Current No 607
Recd: 28-10-98
Ens. 16 (6 plans)

urgent

No 1503 30

Government of Madras.
Office of Sanitary Engineer to Govt.
Poonamallee Road, 27th. October 1898.

Note by the Sanitary Engineer to Government.

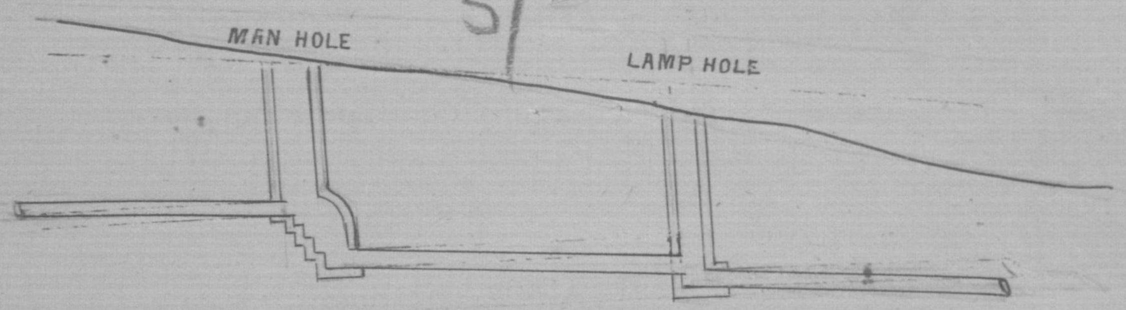
Reference:-No. $\frac{607}{S}$ dated 19th. October 1898 from the Secretary, Sanitary Board.

Ootacamund Drainage.

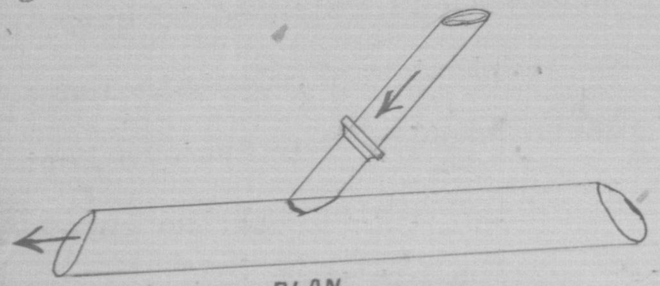
The Sanitary Engineer concurs entirely with every one of the Sanitary Commissioner's recommendations and adds the following remarks:-

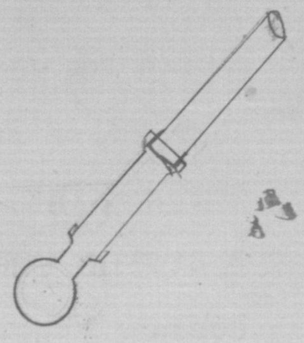
2. As to the diameter of the 9" sewer proposed, this is much too large for the quantity of sewage it is intended to carry and the reason for making it so Viz., that rags, plantain leaves, &c., ma[illegible]et into, is no valid reason, because they must be kept out. A similar reason might be given for having all the sewers and house connections of this dimension, but this is not proposed & the proposal is therefore inconsistent; again the velocity in 6" sewer at same grade will be greater than in a 9" and therefore more likely to carry forward to the outlet any deposit in it. Every sewer should be proportioned, as far as may be, to the work to be done.

3. The grading of the sewers should be in straight lines, ~~but~~ and not as shewn on drawings or as suggested in report. The sewers, if run in one grade from manhole to manhole, will have, as pointed out by Mr. Somers Eve, a high velocity. This velocity is o tionable not in re[illegible] to



4- As to house connections, the proposals made are such as to ensure almost entry of gas to the houses. The Madras connection is not one that commends itself and its effect on health in the connected houses has yet to be noted. A sketch is attached of a connection wherewith there is perfect safety where the house drains have no direct connection with the underground system and gas cannot enter the houses. The design of the house connection near the sewer itself requires alteration. It is a case of making a place for deposit with the view of putting in an inspection hole to look for it? The house connection ought to be carried straight into sewer thus:-


PLAN


SECTION.

5- The sewer should be ventilated at each manhole and especially at the summit end of each sewer. No ventilation of sewers has been found so efficient as this and if one manhloe smells, it merely means there are too few and more should be added. The man-holes should of course be kept as far from houses as possible.

6. Before the scheme is sanctioned for execution it is desirable that plans should be submitted for
(1) the whole of the sewer
the manholes with ventilation

7. The undersigned would, in conclusion, remark with regard to para 29 of Mr. Somers Eve's report that, it is feared, that the open drains proposed to be used for storm water will be no cleaner than they are now; their design is not suited to that purpose and they will inevitably carry away much filth and deposit it in the lake channel with which alone, it is presumed, they will in future be connected and into which discharge.

Sanitary Engineer to Government.

To,

The Secretary, Sanitary Board with papers & plans (in original).

2/3473/M/98

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Government of Madras.

SANITARY BOARD OFFICE.

LOCAL & MUNICIPAL DEPT.
CURRENT No. 3473 M

Proceedings of the Sanitary Board, No. 669/S, dated 11th Nov 98

Read the following:—

Letter from the Superintending Engineer, IV Circle, dated 21st April 1898.

Note by the Sanitary Commissioner, No 2025/S, dated 12th September 1898.

Endorsement thereon in the Local and Municipal Department, No. 1128, dated 4th October 1898.

Note by the Sanitary Engineer, No 1503, dated 27th October 1898.

Endorsement in the Local and Municipal Dept. dated 3rd November 1898.

Resolution.

In his letter read above the Superintending Engineer, IV Circle, submits an estimate amounting to Rs. 10,800, prepared by the Special Executive Engineer, for "constructing pipe sewers in the Manual Pillay street group" of the Ootacamund drainage scheme. This estimate deals only with a portion of the bazaar, and if it is approved, a complete estimate on similar lines can, it is said, be got ready in a short time. Meanwhile, the Executive

Engineer

Engineer has been directed by the Superintending Engineer to proceed with the preparation of the complete estimate. The present proposals are said to be in accordance with Mr. Ashpitel's recommendations as to the adoption of the separate system, which have already been approved by Government. The "Report" on the estimate explains the existing and proposed arrangements.

2. The proposals are referred by Government for the "very early remarks" of the Sanitary Board. The project is accompanied by a note of the Sanitary Commissioner in which he

(1) objects to the ventilation and flushing arrangements,

(2) suggests that proposals be made for razing parts of the bazaar that are of extreme narrowness,

(3) recommends the use of the night soil depôt, and suggests a site for it,

(4) proposes that all house junctions should be put in simultaneously with the laying out of the system; and

(5) concludes as follows;-

"Designs should be shown for public latrines on the water system to be attached"

3. The project having been referred to the Sanitary Engineer, that officer, while concurring with the Sanitary Commissioners recommendations, proposes certain modifications, and is of opinion that before the scheme now sent up is sanctioned, plans and estimates should be required for various other works, which are specified in para 6 of his note.

4. The Sanitary Board is of opinion that the plans and estimates should be revised in accordance with the Sanitary Commissioner's and Sanitary Engineer's remarks, and that this revision should be carried out by the Sanitary Engineer, who should at the same time be requested to complete the project, which requires re-modelling. In the opinion of the Sanitary Board such projects require special knowledge which officers of the Public Works Department do not, as a rule, possess.

(True Extract,)

C. Sarton S.

Secretary, Sanitary Board.

Sd

To

The Secretary to Government,

Local and Municipal Deptt.

with papers in original.

Local & Munl. (189) Department.

CURRENT No. 3029 M

Sanitary Current No. 623
Regd. 8-11-98.
Enclo. 3.

From
The Public Works Department.

No. 4243

Dated 27-9-98
Received 29-9-98.
Registered
Enclosures
Spare copies.

~~**Order**~~

Will the Sanitary Board kindly expedite its remarks called for in Government endorsement No. 1128 dated 4th October 1898?

KP
2/11/98

A. E.
3/11/98

To
The Sanitary Board U.O.

This should go to the Secy. Sanitary Board.
A. E.
2/11/98

Not necessary as all the [illegible] are [illegible]
[illegible]

SUBJECT.

Requesting that early orders may be passed in the L & M. Deptt. on the plans and estimates for the drainage of No. 1 Block Ootacamund Main Bazaar.

Keep this pending till reply
[illegible]
KP
11/11

3/9

BACK PAPERS.

G.O.	No.	Department.	Date.
Cu.	2914	M/98	

FURTHER PAPERS.

G.O.	No.	Department.	Date.

---

ol

37

Public Works (1898) Department.

CURRENT No. 7794

LOCAL & MUNICIPAL DEPT.
CURRENT No. 3029.M

No: 4243C-d/27th September 98.

From The Sanitary Commissioner for Madras.

No. 2076/S

Dated 17th September 1898.

Received } 29 SEP. 1898
Registered } 19 — do —.

Enclosures

Spare copies

Order Endt

Forwarded to the Local & Municipal Dept.

The papers referred to in this letter are the plans & estimates for the drainage of No 1 Block, Ootacamund Main Bazaar. In P.W. Memo. No 2578C dated the May 1898, they were referred to the Sanitary Commissioner for remarks, and for transmission direct to Govt. in the Local & Municipal Dept. The present letter is a reply to a reminder, & as the matter is urgent, it is requested that

P.T.O.

SUBJECT.

Drainage Scheme, Ootacamund.
Reporting that the papers in connection with the — have been forwarded to Govt.

025393112 i/9

28

early orders on the plans & estimates may be passed in the Local & Muncl. Depr.

AHK
10-9-98

~~Secy to Govt. P.W.D.~~

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.
	4050C	P.W.	15-9-98
	3571C	"	12-8-98
	3403C	"	3-8-98
	2518C	"	14-5-98
	1215W	"	13-5-98
	1074W	"	2[illegible]-98
	780W	"	2[illegible]-98

copy to the S. E. IV Circle -

Ootacamund Bazaar Drainage.

LOCAL AND MUNICIPAL DEPARTMENT.

[L. & M.]
500-16-3-98.

~~38~~ 41

Papers to be read in Proceedings :—

Again G.O., No. dated 189 ,

Again G.O., No. dated 189 ,

Current No. 2914M of 1898, dated 12th Septr. 1898, from the Sanitary Commr.

" " 3473M " 1898, " 11th Novr. 1898. " the Sanitary Board.

" " " 189 , " ,

Misc ORDER. No 1989 Muni & 25/11/98

The Sanitary Engineer is requested to revise with reference to the Sanitary Commissioner's and his own remarks* the plans and estimates submitted by Mr. Somers Eve, for the drainage of one of the blocks of the Ootacamund Main Bazaar, and also to submit complete estimates for the whole project, re-modelling it, where necessary.

*P and Q.

AHT
23.11.98.

V.R.
21/11/98

22 11 98

To
The Sanitary Engineer with the plans and estimates and papers to be returned
" Sanitary Board
" Chairman, M.C., Ootacamund.
" Public Works Department.

of the report of Mr. Somers Eve & the Sany. Commr's memorandums 2025 dy 12th Septr 98 in orig.

Desp. 3/12/98

Des. 29/11/98

L. &
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hen examined
hen signed 28/11 } 189 .

EAD AGAIN G.O., No

2,000—2-4-98.

5.

27

OFFICE OF SANITARY COMMISSIONER,
Fort St. George, 17th Septr 1898

No. 2076/S

From

SURGEON-LIEUT.-COL. W. G. KING,
M.B., C.M., D.P.H.,
SANITARY COMMISSIONER
FOR MADRAS,

To The Deputy Chief Engineer,
Public Works Department.

ENCLOSURE.

Your No. , dated

Sir,

With reference to your endorsement No4050/c dated 15/9/-98, I have the honor to reprt for your information that th papers therin referred to hae been forwarded to Governmen on the 12" instant with my no there-on

I h the

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

40

I have the honor to be,

Sir,

Your Most Obedient Servant,

Balasundram

Manager and Assistant,

for Sanitary Commissioner for Madras

1/3029/M/98

L.
3,000

given for copying
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hen examined
hen signed 28/11

189 .

EAD AGAIN G.O., No. , DATED
189 .

RRENT No.

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DER OF GOVERNMENT .. .. .. A A A A A A A

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STATEMENT WITH DIT

NOT FILLED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.

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