

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 3623

Press

384-385

M.S.

Dated 17-12-1864.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
17th December 1864.*

No. 384. Read the following Proceedings of the Madras Government in the Public Department:—

Passing orders on the report by the Municipal Commissioners, for the Town of Madras, of } (Here enter 10th December 1864, No. 1,408.)
their proceedings during the year 1863.

No. 385. ORDER THEREON, 17th December 1864, No. 3,623.

Communicated to Mr. Fraser, Special Executive Engineer, for early report with reference to paragraph 6.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To W. Fraser, Esq., Special Executive Engineer.
To the Superintending Engineer, 4th Division.
To Captain H. Tulloch, R. E., Special Executive Engineer.

Exd. S. T. Augustin.

Proceedings of the Madras Government, Public Department,
10th December 1864.

Read the following papers :—

No. 81. From the Municipal Commissioners for the Town of Madras; to the Chief Secretary to Government, Fort Saint George, dated Madras, 6th June 1864.

As the audit of our accounts for the past year will take some days, we do ourselves the honor of submitting, in advance, the report of our proceedings for said period, and request that the same may be printed and published in the Official Gazette for general information, as required by Section 33 of Act XXV of 1856.

(Signed) A. C. SILVER, Offg. President,

(„) B. CARDOZO,

(„) S. JESUDASEN,

Municipal Commissioners for the Town of Madras.

Report of the Municipal Commissioners for the Town of Madras, dated 6th June 1864.

We have the honor to submit a report of our proceedings during the year 1863.

2. INCOME AND EXPENDITURE.—The income and expenditure of the Municipal Fund were as follows :—

The balance on 31st December 1862, as shown in the Statement attached to our last Annual Report, was Rupees 1,88,404-9-5, viz.,

	RS.	A.	P.
Cash with the Bank of Madras.....	16,330	3	9
Do. with Store-keeper and Cash-keeper.....	150	0	0
Invested in Government securities.....	37,300	0	0
Arrears of assessment.....	97,081	10	5
Do. of wheel tax.....	11,584	10	10
Advances recoverable from Contractors, &c.....	5568	6	11
Office premises.....	21,000	0	0
Lamp posts.....	1000	0	0
Rupees...	1,90,014	15	11
Less sums in deposit and suspense.....	1610	6	6
	1,88,404	9	5

3. INCOME 1863.—The income of the past year was as follows :—

Assessment 1863.....	2,16,225	13	0
Wheel tax „.....	38,386	4	0
Do. 1861 and 1862... ..	13,033	4	0
Warrant fees.....	1033	12	4
License do.	492	8	0
Fines.....	2479	6	11
Interest.....	1488	6	6
Slaughter houses fees... ..	6661	2	9
Rubbish sales.....	3139	8	0
Proceeds of grounds and buildings.	7887	13	6
Sale of lamp posts, unserviceable rubbish carts, &c.....	557	7	9
Miscellaneous receipts.....	1024	8	1
Government contributions on ac- count of roads and works... ..	1,02,316	6	6

3,94,726 5 4

Total Income, Rupees... 5,83,130 14 9

4. COLLECTION OF ASSESSMENT.—Of the arrears and current demand of Assessment, aggregating Rupees 3,13,309-5-1 as per Statement B, the collections during 1863 were as follows:—

Old arrears.	Arrears of 1862.	Current.	Total.
2040 4 1	81,616 4 4	1,28,269 0 1	2,11,925 8 6

being Rupees 57,724-12-4 in excess of the collections in 1862, and Rupees 31,925-8-6 in excess of the estimate given at the end of our last report, which we consider very satisfactory.

5. REMISSIONS OF ASSESSMENT.—These amounted to Rupees 5570-1-9 against Rupees 2906-2-0 in 1862.

The remissions on account of unoccupancy were much larger than in the previous year, owing to the rate of assessment being $7\frac{1}{2}$ instead of 5 per cent., and also to the fact of the public becoming more conversant with the terms of Section 13 of Act XXVI of 1856.

6. BALANCE OF ASSESSMENT.—The outstandings of Assessment on 31st December 1863 were as follows:—

Old arrears.	Arrears of 1862.	Current.	Total.
2541 0 1	5315 13 10	87,956 12 11	95,813 10 10

being Rupees 1269-15-7 less than the balance of 31st December 1862. Of these arrears Rupees 53,180-13-7 had been collected up to 31st ultimo.

7. WHEEL TAX.—The collections of this tax in last year were as follows:—

	Arrears of 1860-61.			Arrears of 1862.			Current.			Total.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
On spring vehicles and animals...	501	7	10	14,971	13	3	26,249	7	0	41,722	12	1
On carts...	60	4	0	3533	8	0	4901	0	0	8494	12	0
Total...	561	11	10	18,505	5	3	31,150	7	0	50,217	8	1

against Rupees 47,246-3-2 in 1862, Rupees 51,095-7-0 in 1861, and Rupees 49,251-11-0 in 1860; average Rupees 49,197-12-5 per annum.

8. REMISSIONS OF WHEEL TAX.—These were as under—

	RS.	A.	P.
On spring vehicles and animals...	1980	13	9
On carts...	1026	0	0
Total...	3006	13	9

including the arrears of 1860 which are written off as irrecoverable.

9. BALANCE OF WHEEL TAX.—The outstandings on 31st December 1863 were as follows:—

	Arrears of 1861.			Arrears of 1862.			Current.			Total.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
On spring vehicles and animals...	902	9	0	735	0	0	4377	4	0	6014	13	0
On carts...	907	8	0	729	12	0	2127	12	0	3765	0	0
Total...	1810	1	0	1464	12	0	6505	0	0	9779	13	0

against Rupees 11,584-10-10 on 31st December 1862, and of this balance Rupees 4970-12-0 had been collected up to 31st ultimo.

GOVERNMENT CONTRIBUTIONS.—These were as follows:—

	RS.	A.	P.
For repair of roads (including balance due for 1862-63)...	58,294	0	0
For the improvement of the Eastern section of Royapooram...	5770	0	0
For the cemetery at Saint Thomé...	5,400	0	0
For the construction of drains in Wall Tax Road, Black Town...	1409	7	1
Compensation for the dock and platform near the Trevelyan cut...	3264	0	0
Closing the Coom bar...	490	15	5
For improving Wallajah road and waste land near the Penitentiary.	13,412	0	0
For improving College bridge...	395	0	0
For constructing Western wall of Chepauk Palace compound...	3131	0	0
For the removal of huts at the Royapooram Coopum.....	10,750	0	0
Rupees...	1,02,316	6	6

10. EXPENDITURE.—The following Statement shows the disbursements in the past year as compared with those of the preceding year:—

	1863.				1862.		
	RS.	A.	P.		RS.	A.	P.
Assessment Department...	8246	9	2		8086	11	7
Assessor's do...	3651	6	9		2118	6	5
Books, maps and other publications...	38	15	3		50	3	1
Burial and burning ground charges...	125	11	0		269	4	0
Civil Engineer's Department...	8638	8	0		8560	12	6
Compensations, Law and other charges...	419	6	4		2950	6	0
Conservancy Department...	2828	2	0		2789	4	0
Flushing drains...	1096	0	9		444	8	10
Government works...	32,010	13	2		27,567	5	6
Income tax and Stamp duty...	113	2	0		156	15	0
Lighting...	8294	13	7		10,891	1	0
Mortuary Department...	896	8	0		890	12	0
Municipal do...	22,378	12	7		22,216	0	0
Office furniture...	126	4	0		25	0	0
Do. premises...	1047	7	9		252	2	3
Plant...	250	0	0		...	...	...
Refunds of assessment...	93	8	8		13	10	5
Do. of Wheel tax...	11	12	0		...	...	...
Remissions of assessment...	5570	1	9		2906	2	0
Do. of Wheel tax...	3006	13	9		2239	14	0
Road Department...	5141	0	0		4842	0	0
Do. work...	1,50,266	3	1		1,00,995	1	9
Scavenging Department...	79,708	11	10		67,983	0	8
Slaughter houses charges...	2845	11	4		2869	5	6
Stationery...	569	7	8		596	5	4
Stores from England...	24,628	7	0		...	...	...
Trevelyan water-works...	175	0	5		10,988	12	7
Do. do. charges...	3131	2	11		2517	14	8
Watering...	1797	4	5		2289	2	11
Wheel Tax Department...	5298	11	6		5170	14	3
Works and improvements to...	2392	12	0		1620	5	1
Do. new...	19,478	1	9		8816	12	5
Do. repairs to...	6055	3	4		2101	1	6
Total...	4,00,332	9	9		3,03,219	3	3

The increase under the head of Assessor's Department is owing to the Civil Engineer having been relieved of the duties of Assessor, and a separate officer having been appointed, with the sanction of Government, Assessor and Collector on the 22nd August last, on a salary of Rupees 350 per mensem for the first six months, and Rupees 400 from thenceforth. This change had long been desired. For the first nine months the Assessor has been solely engaged in revising the valuation of houses and lands subject to the rate, and has only now assumed charge of the Collector's duties.

The increase under the head of Government works is accounted for by the larger sum contributed for improvements in 1863 as compared with 1862.

The decrease under the head of Lighting is owing to the value of certain Iron Lamp Posts having been carried to the debit of Lighting in 1862, whereas no such charge occurs in 1863.

The increase under the head of Road work is owing to the several improvements carried out, to which Government contributed so largely, and to the greater wear and tear.

The increase under the head of Scavenging will be treated of further on.

The item Rupees 24,628-7-0, Stores from England consists of fire engines, buckets, iron barge, lamp posts, iron water pipes, stone-ware pipes and cement, sluice cocks, and a few sundries for the Trevelyan Water-works.

WORKS.—The increase under the head of Works will be treated of further on.

Abstract of Road work executed during the year 1863.

Description of work.	Granite.			Laterite.			Total.			
	Mileage.			Mileage.			Mileage.			
	M.	F.	Y.	Number of squares executed.	Number of cubic feet of work.	M.	F.	Y.	Number of squares executed.	Number of cubic feet of work.
<i>Assessment Roads.</i>										
Reforms.....	3	4	104	2196	73,199	18	1	3	16,800	6,88,896
Repairs.....	1	3	3	400	6666	5	5	146	3951	69,855
Emergent repairs.....	...	...				76	1	184	9523	1,58,716
Total.....	4	7	107	2596	79,865	100	0	113	30,274	9,17,467
<i>Government, Esplanade, &c. Roads.</i>										
Reforms.....	3	3	201	2245	63,162	8	5	13	9891	4,20,697
Repairs.....	...	...				8	2	61	6493	1,33,748
Emergent repairs.....	...	...				17	4	165	5964	99,400
Total.....	3	3	201	2245	63,162	34	4	19	22,348	6,53,845
Grand Total.....	8	3	88	4841	1,43,027	134	4	132	52,622	15,71,312
						143	0	0	57,463	17,14,339

The total length of roads reformed during the year	M.	F.	Y.
1863 with laterite is.....	26	6	16
And with granite.....	7	0	85
Partially repaired.....	15	2	210
Maintained by coolies working under the supervision of the Departmental Maistries and coolies.....	93	6	129
Total...	143	0	0

The following is a Comparative Statement of the work executed during the past three years:—

	1863.		1862.		1861.	
	Squares.	Cubic feet.	Squares.	Cubic feet.	Squares.	Cubic feet.
Reforms.....	31,132	12,45,954	18,472	7,24,728	22,412	8,19,819
Partial repairs.....	10,844	2,10,269	5985	1,15,974	6294	1,17,424
Emergent repairs ...	15,487	2,58,116	15,300	2,55,554	16,000	2,66,666
Total...	57,463	17,14,339	39,757	10,96,256	44,706	12,03,909

The cost of maintaining roads during the past year was, for reforms.....	RS.	A.	P.
Partial repairs.....	89,606	15	5
And for emergent repairs.....	15,835	2	5
	15,487	4	6

The average cost per mile for all roads repaired and reformed during the year was Rupees 845-10-7, exclusive of the amount expended in making slopes, cutting ditches, &c., amounting to Rupees 3718-8-4; Rupees 374-10-9 in repairing the wooden railings, in a portion of South Beach road near the Quibble Island bridge, and fixing railings on the Royapoorum Beach, and Rupees 1835-6-0 in removing prickly pear from public roads.

11. NEW ROADS.—The following communications were opened out during the past year.

A direct road from Vadavenoyagar road to General Farrow's road, Perambore, costing Rupees 1713-10-10, and another between Ravanier street and Seevarama Sastry street, Black Town, at a cost of Rupees 750-12-0.

12. IMPROVEMENT OF ROADS.—A sum of Rupees 37,028-1-0 was laid out in improving the following streets and roads:—

- The eastern section of Royapoorum has been much improved by the removal of boatmen's huts, and by the formation of new roads through it at a cost of Rupees 11,411-15-8.
- Bell's road, Triplicane. There was a narrow passage on the west side of the Chepauk Palace compound leading from the Chepauk west gate to Pycroft's

road, which has been considerably widened and improved; the old compound wall was removed and substituted by a railing similar to that constructed at the People's Park, and the road-way has been metalled at a total cost of Rupees 9826-4-6.

iii. The Wallajah road from the Round Tannah to the Chepauk Palace gate has been much improved and widened by the removal of houses that were projecting into the street-way, and by setting back the compound wall of the Government House. The expense incurred for this work up to 31st December 1863 is Rupees 7850-15-3.

iv. The waste ground situated between the Penitentiary and the People's Park has been improved by raising a portion of the low ground and constructing a tank with turfed slopes. The expense up to 31st December 1863 for this work is Rupees 2028-10-10.

v. The road-way on the north-east wing wall of the College bridge, Nungumbakum, has been improved and widened by the alteration of the wing wall of the bridge; cost Rupees 390-8-9.

The above-mentioned improvements were carried out chiefly at the expense of Government, they having borne the cost of the ground and buildings, and the Board that of metalling the road-ways and constructing new drains.

vi. The road-way at the junction of Marshall's road and Monteith's road, Egmore, has been improved by the construction of a retaining wall; cost Rupees 1293-7-4.

vii. The projection of a portico and the parapet wall of a house in Errah Bauloo Chetty street, Black Town, has been removed, and the street thereby widened; cost Rupees 250.

viii. In Taudah Mootteappen street, Black Town, the projections of house pyalls have been removed and the street widened; cost Rupees 108-4-6.

ix. Perambore Barracks street. This was a narrow street leading from Purasavalkum high road to Vadamalay Pillay street, which has now been very much improved and widened. The expense incurred on this road up to 31st December 1863 is Rupees 3574-6-2.

x. At the junction of Mundavelly street with Saulay street, the road was very narrow, and much inconvenience was felt by vehicles and passengers passing through it. This place has been improved and the road widened by removing certain Bazaars, the owners of which being in dispute their claims are not yet adjusted.

13. PYCROFT'S ROAD.—This road has been entirely completed, the side channels having been built and the road metalled and opened to traffic. The accounts are still unadjusted, owing to the claims of the owners of certain pieces of land and buildings taken under the Act by the Collector of Madras not being settled. The total expenditure incurred on this road up to 31st December 1863 is Rs. 49,944-4-10, of which Rupees 16,575-13-7 was the expenditure in the last year, inclusive of Rupees 7000 transferred from the proceeds of sale of materials on this account to the widening of Bell's road on the west side of the Chepauk garden, from the Chepauk garden west gate to Pycroft's road.

14. NORTH BEACH ROAD.—This road has been widened 20 feet from the north end of the Custom House to Clive's Battery, at an expense of about Rupees 4000, the chief item being the retaining wall on the sea side. The improvement is one that has long been desired, but was pronounced impracticable in former years, owing to the inroad made by the surf in the monsoon. The erection of the Pier has,

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however, caused so much wider a beach to form on its northern side, that we have strong hopes the present road-way will stand.

15. MASONRY WORKS.—During the year 22 drains were either re-built, improved, or extended, at a cost of Rupees 4789-3-3: and the following drains were nearly constructed:—

In Wall Tax road, Black Town, constructed covered drains with stone-ware pipes laid down in their bed, Rupees 5227-11-2.

In Pycroft's road, Triplicane, constructed side open channels, Rupees 2884-9-8.
In Ramanoojier street, Washermen Pettah, a side channel was constructed at the south side, at a cost of Rupees 1036-2-0.

A covered drain was constructed across Perambore Barracks road, at an outlay of Rupees 502-5-1.

The floor and walls of the drain on the Poonamallee road opposite to Barrie & Co.'s Dispensary, were repaired and altered at an expense of Rupees 530.

16. REPAIR OF DRAINS.—Twenty-one drains were repaired, cost Rupees 3425 0 5

17. LATRINES CONSTRUCTED.—One new latrine in Royapoorum Beach

1. Near Clive's Battery, constructing a masonry wall at the sea face in lieu of wooden screens which were removed..... 295 12 5

2. Town Bastions. Converted two Bastions into latrines near the Trevelyan water-works, north of the Elephant Gate... 442 4 3

18. LATRINES REPAIRED.—Nineteen Latrines repaired, 5 in Black Town and 14 in Royapoorum and in 3rd Division..... 770 12 0

460 3 11

Total cost... 1969 0 7

19. CEMETERIES.—A site for a new Burial ground has been provided by Government at Quibble Island, Saint Thomé, for the use of Protestants and Roman Catholics. Government also bore the cost of enclosing the ground, Rupees 5400. A Mahomedan Cemetery on the Mount road, opposite Waller & Co.'s stables, has been closed.

20. SLAUGHTER HOUSES.—The Slaughter houses in Choolay, Perambore and near the Monegar Choultry have been repaired at a cost of Rupees 131-2-1.

21. PUBLIC WELLS.—Fifteen public Wells were repaired: 3 in Black Town, 1 in Poodooppettah, 5 in Triplicane and 6 in Mylapore, at a cost of Rupees 109-15-8.

22. FLUSHING OF DRAINS.—1. Well sunk and cisterns built in Odacall street, Black Town..... 746 12 10

1. Well sunk and cisterns built in Naval Hospital road, Paracmettoo, inclusive of the purchase of ground..... 939 3 8

1. Water cistern repaired and plastered near the Light House Esplanade..... 38 4 0

1. Altered the floor of side channels in Poonamallee road near Jannadar's Tannah..... 550 11 10

1. Repaired the wooden aqueduct near the Government bridge. 40 3 6

Total cost... 2295 3 10

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The flushing of drains by means of these wells and cisterns will be noticed under the head of Drainage.

23. OFFICE PREMISES.—Repairs to the Assessor and Civil Engineer's Office..... 268 10 0

Removing the old and making a new Terrace to the verandah of the Municipal Commissioner's Office, &c..... 589 15 6

Total cost... 858 9 6

24. LAMP POSTS.—Sixty-nine lamp posts were erected: 27 in Black Town, 3 in the 3rd Division, 12 in the 4th Division, and 27 in the 5th Division, at a cost of Rupees 487-2-7.

25. RETAINING WALLS NEWLY BUILT.—1. In Mount Road adjoining the small gate of the Horticultural Gardens..... 316 13 6

1. In Railway Terminus road..... 317 8 2

1. In a portion of Cooum river side road between Colonel Lawe's bridge and the Government bridge..... 197 13 10

1. In McNicholl's road, Chetput, joining Poonamallee road... 151 11 11

1. In North Beach road between Clive's Battery and the Pier... 3141 1 7

1. In Sterling's road joining Nungumbaukum high road..... 188 13 4

26. RETAINING WALLS REPAIRED.—1. In General Patter's road..... 107 2 2

1. In Avadanum Pauper's road, Choolay..... 32 0 4

1. In Basin Esplanade road..... 836 0 8

1. In Cooum river side road, back of Ashton's Shop... 144 0 0

Total cost... 5433 1 6

27. PILE DRAIN.—A sum of Rupees 5108-5-0 was expended in laying down iron pipes on wooden piles for discharging the sewage from Odacall street into the sea; also Rupees 463-13-6 expended in laying down pipes on piles and groyne at the mouth of the north main drain.

28. LAYING DOWN STONE-WARE PIPES.—1. Laying down stone-ware pipes in Anderson's street and Narrainappa Naick street, Black Town, to convey water for flushing the drains in these streets..... 161 3 6

1. Do. in Audeappa Naick's and Annah Pillay streets, Black Town, to convey water for flushing the drains in Anderson's and Stringer's streets, Black Town..... 348 5 0

Total cost..... 509 8 6

29. STREET RAILWAYS.—After much delay and frequent revision, the draft agreement with Messrs. Samuel, Bruce & Co., for laying down ten miles of street Railway at Madras has been completed, and forwarded to the Government of India for transmission to the Secretary of State for India.

30. **TREVELYAN WATER-WORKS.**—The supply of stone-ware pipes, alluded to in our last Report, arrived in such very bad condition that we could not make much progress in completing the line of water mains in the western section of Black Town. We, however, succeeded in bringing water as far as the Market, from whence it is conveyed to the drains in Anderson's and Stringer's streets, which are now much less offensive than in former years.

We forwarded a fresh indent for £800 worth of stone-ware pipes and metal valves to Colonel Smith, our Agent in England, and he has executed the same to our entire satisfaction. The further extension of the flushing pipes has been suspended, pending orders of Government on Captain Tulloch's scheme for draining the town, which may shortly be expected.

We are about to erect stand pipes along Saulay street to serve in case of fire, and also to allow of our watering the street.

31. **ESPLANADES AND GLACIS OF FORT SAINT GEORGE.**—The conservancy of these Esplanades has been placed in our charge by Government, who have further sanctioned an estimate amounting to Rupees 23,935 for enclosing them with iron wire fencing and iron standards, and one for Rupees 3000 for building a Band Stand at the Monument Esplanade, which is also to be laid out with gravelled walks as a place of recreation for the inhabitants of Black Town.

We have ordered out the fencing from Messrs. F. Morton & Co. of Liverpool, of a pattern approved of by the War Office in England, who promise to use every despatch in the execution of our order.

32. **DRAINAGE AND WATER SUPPLY.**—Another year has passed and these important questions are yet under consideration.

On the 19th June last we addressed a special letter to Government on the subject, and pointed out that although eighteen months had elapsed since they had resolved to refer the whole question of water supply and drainage to the Public Works Department, nothing definite had been decided upon, so far as we were informed; and that the public and local Press were loud in their complaints of the delay that had occurred, which they attributed to our supineness and indifference to the crying wants of this large population. We, therefore, respectfully solicited to be informed what measures were being taken for carrying out the work, and the probable period at which a supply of wholesome drinking water may be looked for by the inhabitants of Madras.

We further alluded to the recommendation made by the local Government to the Government of India on 19th March 1862, that a grant of a lac of Rupees annually be made by the State in aid of the Municipal resources, to which no reply had been given, and requested a re-consideration of the proposal made by us on the 15th October 1861, that certain items of minor local revenue, aggregating Rupees 12,000 per annum, should be made over to us, which, although of trifling amount, would enable us to borrow a lac of Rupees wherewith to make a beginning in the sanitary improvement of the town.

On the 14th July last, Government stated they were unable to give any definite answer to our said request, until a reply has been received from the Government of India to the before-mentioned recommendation, but resolved to draw their attention to it; and solicit an early decision on the subject; but up to the present date, we believe that nothing has resulted from this renewed effort of Government to obtain for us some increase to the resources of the Municipality.

The Engineers specially appointed by Government to investigate the drainage and water supply questions, Captain Tulloch and Mr. Fraser, have not yet submitted their final Reports and Estimates, but we learn they expect to do so in the course of next month; and we would take this opportunity to urge the priority of claim the water supply scheme has to any other, as we consider it of primary importance that good fresh drinking water should be supplied to the inhabitants of this city at the earliest practicable date.

One of the greatest nuisances at Madras is the stench from the drains having their outlet on the North Beach, and this is caused in a great measure by the sewage being pent up for several hours in the drain, which can only be relieved at low water. We have experimented very successfully on the Odacall drain, south of Bentinck's buildings, by laying down a line of nine-inch iron pipes on wooden piles from the mouth of the drain to the first line of surf, by which the sewage has a free outlet into the sea; and as the drain is constantly flushed with water from a cistern at its head, there is scarcely any smell perceptible. The cost of this experiment, as already mentioned, was Rupees 5108.

We adopted the same course with the northern tunnel, but as the quantity of sewage to be provided for is far greater, the experiment has not been so successful; but we have every confidence that such would be the case if pipes of a sufficient size were employed and the line carried further out to sea, and we have therefore sent to England for 200 feet of 18-inch iron pipe, 110 feet of 12-inch ditto, and 50 iron screw piles, the cost of which will be about Rupees 10,000.

Government have requested us to lay down a similar line of pipe from the southern tunnel mouth, the stench from which is most offensive to the inhabitants of Black Town. We have sunk wells and constructed cisterns in Paremettoo and New Town, for the purpose of flushing the drains of that locality which empty themselves into the Cooum, the stench from which has long been a great cause of annoyance to the inhabitants of that part of Vepery.

33. **SANITARY COMMISSION.**—One of the first acts of the present Viceroy Sir John Lawrence was the formation of Sanitary Commissions at the three Presidencies. It is, we understand intended that these commissions shall not only originate and superintend all Sanitary operations in Forts and Military Cantonments, but also give their attention to the improvement of towns.

We trust the Madras Sanitary Commission will aid us with the weight of their influence to obtain money to relieve the many crying wants of this city.

Government is already possessed of the fullest information as to the present very defective Sanitary condition of the town and suburbs, and has recognized that we are rendered helpless to do good by the want of funds.

Their former appeals to the Government of India for a special grant to the Municipality have, as already stated, been fruitless; but we are induced to hope for better success when the subject is put before Sir John Lawrence, backed with the strong recommendation of the Sanitary Committee, and that of the local Government.

34. SCAVENGING.—The particulars of the expenditure under this head as compared with that of 1862 were as follows:—

	In 1863.			In 1862.		
	RS.	A.	P.	RS.	A.	P.
Establishment.....	27,714	10	3	27,068	4	7
Rubbish boat do.....	4901	11	7	706	11	6
Hire of bullocks and drivers.....	32,598	12	4	33,948	15	0
Purchase and repair of Boats.....	3820	11	7	...	...	...
Making and repairing carts.....	3671	7	10	1670	9	6
Cleaning main drains.....	1443	3	10	...	...	...
Sanding latrines.....	1259	7	0	...	...	...
Constructing rubbish platforms, &c.	1035	6	2	...	...	...
Miscellaneous expenses.....	3263	5	3	4588	8	1
Total...	79,708	11	10	67,983	0	8

The increase is in a great measure owing to the expense of transporting the town sweepings to Manally by means of boats on Cochranes's canal, of which we treat lower down.

The outlay for carts was Rupees 2000 more than in the previous year, and there were additional expenses for cleaning out main drains, sanding latrines, constructing rubbish platforms, &c.

35. STREET SWEEPINGS.—The removal of the street sweepings by boats on the canal being attended with much inconvenience and uncertainty, owing to the insufficient depth of water in the canal during the hot weather and the unsuitableness of the boats made in this country for the work, one of the first requirements of which is constant service, we were induced to re-open negotiations with the Agent and Manager of the Madras Railway for the conveyance of the town rubbish by rail to Avady, a distance of 10 miles.

The nature of the traffic would necessitate the employment of a separate set of waggons and a special engine, consequently the terms asked by the Railway Agent were high, viz., Rupees 3000 per mensem, but this included, besides the conveyance of 3000 tons of rubbish to Avady, that of 2500 tons of gravel from thence to Madras; and as it was supposed that the latter would be both a cheaper and better material than laterite for the repair of the Presidency roads, we were inclined to consider the terms asked not excessive, although much higher than that charged for bulky goods of low value.

The rate for bricks, clay, chunam manure, sand, &c., is eight Pice, and that proposed to be charged on our rubbish is one Anna per ton per mile, or one-third more.

With the view of testing the quality of Avady gravel and its suitableness for road-work, we arranged with the Railway Agent to supply us with 20 waggon loads per diem for the period of one month. The gravel was laid down on roads within a moderate distance of the Terminus, so as to make the charge for transport as light as possible: but notwithstanding this, the cost of metalling with this material is 12 per cent. dearer than that paid for laterite, and instead of its proving a better material it is quite the contrary, consequently we were obliged to abandon the project.

36. MORTUARY RETURNS.—The number of deaths reported in last year was as follows:—

Males.	Females.	Children.	Total.
3571	3417	4870	11,858

being 2875 less than in the preceding year.

There was also a considerable falling off in the cholera cases, the number being 1684 against 3663 in 1862.

The health of the town in general was favorable, and about the average condition. The fall of rain being ample seems to have had a beneficial effect, especially in those densely crowded localities like the Parcheries; the system of white-washing with lime the huts of the poor has also had an excellent effect, and there have been very few cases of sickness in the localities which have been thus treated.

37. FINANCIAL ESTIMATE FOR 1864.—The balance of last year's account to be carried to the credit of the Fund in 1864 is as follows:—

	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Cash with the Bank of Madras.....	14,560	5	5									
Do. with Store Conicopoly... ..	150	0	0	14,710	5	5						
Invested in Government securities.....				37,300	0	0						
Arrears of assessment recoverable from rate payers.....				95,813	10	10						
Arrears of Wheel tax recoverable from rate payers.....				9779	13	0						
Advances recoverable from contractors and others.....				5808	14	3						
Office premises.....				21,000	0	0	1,84,412	11	6			
Less amount of unclaimed salaries, &c.....				390	3	1						
Amount in deposit Avenue Fund... ..	844	5	9									
Income tax deposits... ..	354	10	2									
Petty deposits... ..	25	3	6	1224	3	5	1614	6	6	1,82,798	5	0

The available income of the current year 1864 may be estimated as under.

	RS.	A.	P.	RS.	A.	P.
Cash balance.....	14,710	5	5			
Government securities 4 per cent. Loan 37,300 0 0						
Less 4 per cent. discount..... 1492 0 0						
	35,808	0	0			
Probable collection of assessment.....	2,00,000	0	0			
Do. do. of Wheel tax.....	50,000	0	0			
Government contribution for roads.....	35,897	0	0			
Slaughter house fees.....	6500	0	0			
				3,42,915	5	5
Which we propose to apportion thus—						
Supervision and management.....	60,000	0	0			
Scavenging establishment and hire of bullocks...	80,000	0	0			
Lighting.....	9000	0	0			
Road-work.....	1,25,000	0	0			
Masonry.....	25,000	0	0			
Improvements.....	20,000	0	0			
Reserve.....	23,900	0	0			
				3,42,900	0	0

(Signed) A. C. SILVER, Offg. President,

(„) B. CARDOZO,

(„) S. JESUDASEN,

Municipal Commissioners for the Town of Madras.

No. 82. From A. RIACH, Esq., Auditor, Municipal Accounts, Madras; to A. J. ARBUTHNOT, Esq., Chief Secretary to Government, Fort Saint George, dated Madras, 1st July 1864.

I have the honor to inform you that, in accordance with the instructions of Government, I have audited the accounts of the Municipal Commissioners for the town and suburbs of Madras for the year ending 31st December 1863.

I have examined the different items of expenditure, item by item, and compared them with their respective vouchers. All the receipts and collections, received by the Commissioners during the year, are correctly shown in the balance sheet, and the amount of Government Securities belonging to the Municipal Fund, which are lodged with the Bank of Madras, correspond with the sum named in the balance sheet.

The balance brought forward on the 1st of January 1863 was Rupees 1,88,404-9-5, of which sum Rupees 1,08,666-5-3 represented the arrears of collection of taxes. The declared assessment for the year was Rupees 2,16,225-13-0, and Rupees 1,28,269-0-1 of this amount was collected; the amount of arrears of assessment for 1863 is Rupees 87,956-12-11. I find that the arrears are not so large as for 1862, which amounted to Rupees 92,441-12-3; nevertheless, I think they are very large, and that it would be well if the Commissioners could adopt some method, by means of

which nearly the whole of the claims on account of assessment for any one year might be obtained before the close of that year. There is no less a sum than Rupees 5315-13-10 still owing for arrears of assessment for 1862. Although it is to be hoped that the whole of the amount will be ultimately received by the Commissioners, it would have been preferable had the collection been made in that year. The above observations are applicable to the wheel tax. The declared amount of wheel tax for 1863 was Rupees 38,386-4-0; of this sum 6505 Rupees were uncollected on the 31st December last.

The following table shows the amount of Assessment and Wheel Tax unrealized on 31st December 1863:—

Assessment.			Wheel Tax.		
	RS.	A. P.		RS.	A. P.
Arrears anterior to 1862...	2,541	0 1	Arrears for 1861...	1,810	1 0
Do. of 1862.....	5,315	13 10	Do. for 1862...	1,464	12 0
Do. of 1863.....	87,956	12 11	Do. for 1863...	6,505	0 0

There was a slight increase in the receipts from the Slaughter-houses, when compared with those for the previous year; they were not, however, so large as those in 1861, as will be seen below.

	RS.	A.	P.
1861	6,706	8 6	
1862	6,288	12 3	
1863	6,661	2 9	

The increase when compared with 1862 is Rupees 372-6-6.

The sums received from Government during the year were considerably in excess of those from the same source in 1862. The balance sheet shows for what purposes the various grants were made.

The rest of the receipts particularized in the balance sheets call for no remark.

The total expenditure during the year was Rupees 4,00,332-9-9. I append a table, showing the sums spent in 1863 under the different headings in the balance sheet, as well as for the two previous years.

	1861.			1862.			1863.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Supervision and Management.	57,813	2	2	57,663	1	8	59,932	1	11
Scavenging.....	63,238	9	1	67,736	11	4	79,600	8	6
Lighting.....	7,154	7	4	10,891	1	0	8,285	15	1
Printing and Advertising charges	789	5	4	607	15	5	840	9	4
Purchase of land and buildings	17,791	5	11	28,844	7	11	33,028	1	11
Additions.....	83,232	0	0	30,924	3	5	33,643	6	8
Improvements.....	10,309	7	7	3,161	2	7	13,148	11	2
Repairs.....	90,637	12	1	77,629	2	7	1,28,729	0	4
Miscellaneous.....	20,526	4	3	25,761	5	4	42,124	2	10
Total...	3,51,492	5	9	3,03,219	3	3	4,00,332	9	9

DISBURSEMENTS

E. & E. O.

resident

C.

STATEMENT showing the actual Demand, Collection, Remission, and Balance on account of Wheel
Tax on Spring Vehicles and Animals in 1863.

		1st Quarter.			2nd Quarter.			3rd Quarter.			4th Quarter.			Total.		
Demand.		RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
	Arrears of 1860.....	163	0	0	187	8	0	223	8	0	243	12	0	817	12	0
	Do. 1861.....	332	0	0	295	15	10	295	8	0	441	9	0	1,365	0	10
	Do. 1862.....	566	0	0	954	0	0	4,059	14	0	10,598	4	0	16,178	2	0
	Do. 1863.....	10,886	0	0	10,425	12	0	10,014	4	0	31	8	0	31,357	8	0
	Total..	11,947	0	0	11,863	3	10	14,593	2	0	11,315	1	0	49,718	6	10
Collection.	Arrears of 1860.....	4	8	0	4	8	0	23	4	0	22	8	0	54	12	0
	Do. 1861.....	41	4	0	85	3	10	126	12	0	193	8	0	446	11	10
	Do. 1862.....	362	12	0	822	12	0	3,819	9	3	9,966	12	0	14,971	13	3
	Do. 1863.....	10,178	1	0	9,351	6	0	6,692	4	0	27	12	0	26,219	7	0
	Total..	10,586	9	0	10,263	13	10	10,661	13	3	10,210	8	0	41,722	12	1
Remission.	Arrears of 1860.....	158	8	0	183	0	0	200	4	0	221	4	0	763	0	0
	Do. 1861.....	...	...	...	11	4	0	2	4	0	2	4	0	15	12	0
	Do. 1862.....	15	0	0	12	0	0	84	4	9	360	0	0	471	4	9
	Do. 1863.....	320	3	0	233	10	0	177	0	0	...	...	...	730	13	0
	Total..	493	11	0	439	14	0	463	12	9	583	8	0	1,980	15	0
Balance.	Arrears of 1860.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do. 1861.....	290	12	0	199	8	0	166	8	0	245	13	0	902	9	0
	Do. 1862.....	188	4	0	119	4	0	156	0	0	271	8	0	735	0	0
	Do. 1863.....	387	12	0	840	12	0	3,145	0	0	3	12	0	4,377	4	0
	Total..	866	12	0	1,159	8	0	3,467	8	0	521	1	0	6,014	13	0

(Signed) A. C. SILVER, Offg. President.

(") B. CARDOZO,

(") S. JESUDASEN,

MUNICIPAL COMMISSIONER'S OFFICE,
MADRAS, 31st December 1863.

Municipal Commissioners for the
Town of Madras.

ject of law for the Municipal administration of the town of Madras may be brought before the local Council for making Laws and Regulations.

12.. Mr. Riach alludes to an increase of expenditure under the heading of Management and Supervision, which, as we explained at paragraph 10 of our Report, was attributable to the appointment of an Assessor and Collector.

13. Mr. Riach has greatly over-estimated the extent of our roads, as Government will no doubt have observed; there are only 130 miles of metalled, and about the same extent of clay and sand roads within our limits.

14. The last subject noticed by Mr. Riach is, the absence of the item of "Stores" from our balance sheet for 1863; whilst in that for 1862, Rupees 1000 of the balance was so represented.

15. We now debit each branch, say, scavenging, lighting, water-works, &c., with the cost of stores as purchased, and therefore have no longer occasion for a store or stock account.

(Signed) A. C. SILVER, Offg. President,

" B. CARDOZO,

" S. JESUDASEN,

Municipal Commissioners for the

No. 85. ORDER THEREON, 10th December 1864, No. 1408.

With the first of the letters above recorded, the Municipal Commissioners for the Town of Madras submit their annual Statement of income and expenditure, and a report of their proceedings during the year 1863. The second letter contains the report of the Auditor appointed under Section 33, Act XXV of 1856, on his examination of the accounts of the Municipal Fund for the year; and in the fourth, the Commissioners furnish explanation on certain points noticed by the Auditor.

2. The Auditor certifies to the correctness of the several entries in the accounts and of the Commissioners' balance sheet on the 31st December 1863.

3. The receipts for the year, including the balance brought over from the accounts of the previous year, amounted to Rupees 5,83,130-14-9; and the expenditure during the year, to Rupees 4,00,332-9-9, distributed as follows:—

	RS.	A.	P.
Supervision and Management.	59,932	1	11
Scavenging establishment and hire of bullocks...	79,600	8	6
Lighting.....	8,285	15	1
Road work and masonry.	1,96,400	8	11
Improvements	13,148	11	2
Miscellaneous.....	42,964	12	2
Total...	4,00,332	9	9

leaving a balance of Rupees 1,82,798-5-0.

4. The Commissioners' estimate of receipts and expenditure for the current year is subjoined.

<i>Receipts.</i>				<i>Expenditure.</i>			
Cash balance.....	14,710	5	5	Supervision and manage- ment.....	60,000	0	0
Government Se- curities, 4 per cent. Loan. 37,300 0 0				Scavenging establish- ment and hire of bul- locks.....	80,000	0	0
Less 4 per cent. dis- count.....	1,492	0	0	Lighting	9,000	0	0
				Road work.....	1,25,000	0	0
Probable collection of assessment.....	2,00,000	0	0	Masonry	25,000	0	0
Do. do. of wheel tax.	50,000	0	0	Improvements	20,000	0	0
Government contribu- tions for roads.....	35,897	0	0	Reserve	23,900	0	0
Slaughter-house fees.....	6,500	0	0				
Total...	3,42,915	5	5	Total...	3,42,900	0	0

5. Several very useful improvements were effected during the year, and generally the Governor in Council considers that the Commissioners have made a judicious application of the funds at their disposal. The expenditure was nearly a lac of Rupees in excess of that of the previous year, and there was nearly a corresponding increase of income, including the balance brought over from the accounts of 1862. The progress of Rupees 57,724-12-4 in the collections of assessment over those of 1862, as the Commissioners observe, is very satisfactory. The suggestion of the Commissioners, that an Act should be passed, amending that part of the Municipal Act which requires that the assessment shall be revised annually, will be considered in the Legislative Department, in connection with the proposal to provide for the registration of vehicles and animals which is now under consideration in that Department.

6. The project for improving the drainage of Madras, to which reference is made in the 32nd paragraph of the Report, is, it is understood, nearly completed. Mr. Fraser will be called on in the Public Works Department to report fully what progress he has made in the investigation of the project for supplying Madras with water, and when it is likely to be completed.

7. The Governor in Council directs that the sum of Rupees (500) five hundred, chargeable to the Municipal Funds, be paid to Mr. Riach, in remuneration for his services in auditing the accounts.

(True Extract.)

G. J. Cunningham
Chief Secretary.

To the Municipal Commissioners for the Town of Madras.

" Auditor, Municipal Accounts.

" Legislative Department.

" Public Works do.

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Copying orders on
the report by the Atlantic
coast & manufacturers
for the town of Madras
their proceedings during
the year 1863.

Just

21
No. 3623

Communicated to
The Treasurer, Special Spec
tive Engineer, for early
report with reference
to June 6.

Elephant
17th Dec 1864

of the Treasurer, Special Spec
tive Engineer, for early
report with reference
to June 6.

" Captain H. St. John
Special Lt. Engineer

187

McLean Order
No. 3623-17th Dec 1864

No. 384 385