

(1) Number of pages 10(2) Date of repair 2-4-43

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public works* **DEPARTMENT.**

G.O. No. 1315	Press <u>Mis.</u>
46-47	
Dated 2 5	1867.

Not to be folded or roughly handled*11/10*

*Proceedings of the Madras Government, Public Works Department,
2nd May 1867.*

No. 46. Read the following Report:—

No. 41.

1. The undersigned, in accordance with the instructions conveyed in the Government Order, dated 20th March 1867, No. 993, have examined the ground recently used for the deposit of town sweepings behind Burghall's stables, and concur with the Sanitary Commissioner in recommending that no building be erected on this site until this ground has been purified and cleaned by cultivation. The disturbance of the ground, which would be necessary to lay the foundations of the gas works, would at present be attended with risk to the public health.

2. The undersigned see no objection to the location of gas works either at Burghall's stables or on a piece of ground, pointed out by Mr. Orr, beyond Mr. Laybourn's bakery.

Before arriving at this conclusion, they have thought it proper to consult Dr. Wyndowe, the Chemical Examiner, and who is well acquainted with the various processes of gas making, as to any nuisance which would be created by gas works in this neighbourhood.

3. Dr. Wyndowe's reply, appended, shows that under certain precautions, which may be required of the Gas Company before giving them either of the sites now recommended, gas works may be built in the places above mentioned without any inconvenience or danger to the public health.

(Signed) R. S. ELLIS,

Sanitary Commissioner for Madras.

(„) W. MACKENZIE, M. D.,

Inspector General, Medical Department.

(„) C. DENISON,

President, Municipal Commission.

MADRAS,
16th April 1867.

From Surgeon S. J. Wyndowe, M. D., Chemical Examiner, to the Sanitary Commissioner, dated Madras, 15th April 1867.

The substances, whatever they may be, which are converted into gas, are heated in closed retorts. The illuminatory portion passes on to the gas holders, the condensible products and impurities being removed between the retorts and the gas holders. The condensible products are chiefly tar and water. Even if a portion of these is wasted and drains away, there is nothing unwholesome in them, themselves; they might, however, affect the fish in the Cooum. The unhealthy products are the impurities, as ammonia, carbonic acid, and sulphur compounds. These, if the purification be complete, should all be retained by the water, lime, and iron oxide used; the ammonia can be fixed by the addition of an acid, and if proper provision were insisted upon for the removal, to a distance, of the spent lime and iron, I do not think any serious consequences to the public health would result if gas works were constructed at Burghall's stables, as you say evil might result were the recently accumulated dirt heap in the vicinity stirred up. As regards smoke, coke being used as the fuel, this is quite unimportant. The drainage from the works is pretty well saturated with tar water. Whether this should be conducted to the Cooum or no it is of course for you to decide. I should think if carried into that big sewer which now falls into the Cooum near the bridge, the addition would be beneficial rather than the contrary. The accumulated refuse would, for a small work, not be more than two or three cart loads daily, I should say, at a rough guess. I would have it however removed to a distance, for it gives off unwholesome gasses. I think this answers your questions. If there is any particular point you require more in detail, I will, at your request, give the information as far as in my power. Proceedings of Government and Mr. Orr's letter all herewith returned.

Proceedings of the Madras Government, Public Works Department,
2nd May 1867.

No. 47.

ORDER THEREON, 2nd May 1867, No. 1,315.

CIVIL WORKS, No. 6.

Under the opinion expressed by the Committee, the Government regret that the ground behind Burghall's stables cannot be made available for the erection of the proposed Gas works. The Collector of Madras will, however, be requested to report, in communication with the Municipal Commissioners, whether the piece of ground beyond Laybourn's Bakery, referred to in paragraph 2 of the Committee's letter, is the property of Government.

(True Extract.)

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

To the Collector of Madras.
" Municipal Commissioners.
To Mr. P. Orr.
To the Sanitary Commissioner.
" Inspector General, Medical Department.
" Public Department.
" Military Department.
" Superintending Engineer, 4th Division.
" Superintendent Government Gas Works.

Ed. S. T. Augustin.

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Madras 15th April

My dear Ellis.

The substances, whatever they may be, which are converted into gas, are heated in closed retorts. The illuminatory portion passes on to the Gas holder. The condensable products and impurities being removed between the retorts and the gas holders. The condensable products are chiefly tar and water. Even if a portion of these is wasted and drains away, there is nothing unwholesome in them, themselves; they might however affect the fish in the Coorn. The unhealthy products are the impurities, as Ammonia, Carbonic acid and Sulphur compounds. If the purification be complete, should all be retained by the water, lime and iron oxide used; the ammonia can be fixed by the addition of an acid, and if proper provision were insisted upon for the removal to a distance of the spent lime and iron, I do not think any serious consequences to the public health would result. If gas works were constructed at Burghall's stables, as you say will might result were the rears by accumulated dirt heap in the vicinity stirred up. As regards smoke coke being used as the fuel, this is quite unimportant. The drainage from the works is pretty well saturated with tar water. Whether this should be conducted to the Coorn or no, it is of course for you to decide. I should think if carried into

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to a distance for it gives off unwholesome gases.
I think this answers your questions. If there is
any particular point you require more in
detail, I will at your request give the information
as far as in my power. Proceedings of Comm-
ment, and Mr Orr's letter all herewith returned.

Yours Sincerely
Jas J. Jardine Wyndome

1041.

From The Sanitary Commissioner for Madras.

To Inspector General, Medical Department
Public Health & Municipal Commission for the Town of Madras
The Secretary Government, Public Works Department, Government of Madras

The undersigned in accordance with the instructions
conveyed in the Government Order, dated 29th March 1867
993 have examined the ground recently used for the deposit of
Town sweepings behind Burghall's stable, and concur with the
Sanitary Commissioner in recommending that no building be
erected on this site until this ground has been purified and
cleared by cultivation. The disturbance of the ground which
would be necessary to lay the foundations of the Gas Works
would at present be attended with risk to the Public
Health.

2. The undersigned has no objection to the location of Gas
Works either at Burghall's stables, or on a piece of ground
pointed out by Mr Orr, beyond Mr Caybourne's Bakery.

Before arriving at this conclusion, they have thought
it proper to consult Dr Wyndome, the Chemical Examiner, and
who is well acquainted with the various processes of Gas
making, as to any nuisance which would be created by
Gas Works in this neighbourhood.

3. Dr Wyndome's reply, appended, shows that under
certain precautions, which may be required of the Gas
Company before giving them either of the sites now
recommended, Gas works may be built in the places
above mentioned without any inconvenience or danger
to the Public Health.

Resd. Sanitary Commissioner
Madras
5th April 1867.

W. M. M.
Sanitary Commissioner for Madras

J. Macdonald
Inspector General, Medical Department

Charles Devison
President, Municipal Commission
(See Reply, referred to in)

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Public Works Department.

1315
No 1315

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 2nd May 1867.
Read the following

From the Sanitary Commissioner (Here enter No. 41 dated 16 April 1867)
Inspector Gen Medical Dept
President, Municipal Comm.
Madras

Under the opinion expressed by the Committee, the Government regret that the ground behind Dinghalls Hall cannot be made available for the erection of the proposed Gas works. The Collector of Malabar will, however, be requested to report, in communication with the Municipal Commissioners, whether the piece of ground beyond Laybourn's Backery, referred to in

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The Sanitary Commissioner
for Madras

Inspector General
Public Health

Inspector, Municipal
Commissioner

Do
Commissioner of
Public Health

Dated 16th May 1867
Recd. 24th May 1867

Be: acc: No 41

Reports that the site behind Dinghalls Hall is well suited for the erection of Gas works and other buildings etc. and another site near the Laybourn's Backery might be selected.

1315-2nd May 1867.

2650 of 1867 1315

para 2 of the Com
mittee's letter, is the
property of Govt -

Wb

- To The Collector of Works.
- " Municipal Commr.
- " Mr D. An.
- " Sanitary Commr.
- " Chgo. Genl Medical Dept.
- " Public Dept.
- " Military Dept.
- " Supergr 4th Div.
- " Supts Govt Gas Works.

Recd 3/5/67

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Wb

Pub: Works 1867 (Dep. outl.)

Pro: of Govt for May

No 1315

Pro: of the Madras Govt.

22nd May 1867

The Collector of Madras
requested to report in
communication with the
Municipal Commissioners
whether the piece of land
proposed for site for Gas
works beyond Laybourn's
Bakery is the property of
Government.

No. 46-47