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G.O. No. 3832	Press
19-22	Mis.
Dated 1-12-1866	

Not to be folded or roughly handled

property of the Government or Municipal Commissioner. ent lamp-posts
and lamp alteration, can be applied, the same to be made at the expense
of the Government or Municipal Commissioners.

The lamps to be lighted 30 days in each month for all the year, and to
burn average for 10 hours per night, at the rate of 3 cube feet per lamp per
hour illuminating power of the gas to be 12 sperm candles, such being the
inserted in the Metropolis (London) Gas Act of 1860. The price for
supply of gas to these lamps, together with the charge for lighting, putting out,
cleaning, painting, and repairs to be £5.18.0 per lamp per annum so long as the
Company pay to the Shareholders a less dividend than 10 per cent.

Should the Company pay more than 10 per cent., the following reduced prices
will be charged, to take effect from the quarter day next following the date at which
such increased dividend may be paid.

						£ s. d.
If the dividend be over 10 percent., and under 11 per cent., the price per						
					annum to be...	5 12 0
"	11	"	"	12	"	5 6 0
"	12	"	"	13	"	5 0 0
"	13	"	"	14	"	4 14 0
"	14	"	"	15	"	4 8 0

and if more than 15 per cent., the price of £4.8.0 will be further reduced at the
rate of 1s. for every one per cent. paid in dividend more than 15 per cent. If
the public lamps are lighted only eight months in the year, the charge to be two
thirds of that charged for twelve months lamps, with 10s. added per lamp per annum
in each case.

Clause 6.—The price for gas to private consumers of the illuminating power
of 12 sperm candles, to be measured and paid for by meter, to be at the rate of 16s.
per 1000 cube feet, so long as the dividend of the Company is under 10 per cent.

						£ s. d.
If over 10 per cent. and less than 11 per cent., the price per 1000 cube feet to be						0 15 0
"	11	"	"	12	"	0 14 0
"	12	"	"	13	"	0 13 0
"	13	"	"	14	"	0 12 0
"	14	"	"	15	"	0 11 0

If more than 15 per cent., the price of gas per 1000 cube feet of 11s. to be
further reduced at the rate of 2s. 2d. per 1000 cubic feet for every one per cent. paid
in dividend more than 15 per cent.

Clause 7.—The price of gas to the Government and Municipal Public Build-
ings to be charged for at a price less by 15 per cent. than the price charged to pri-
vate consumers; it being quite optional with the Government or Municipal Com-
missioners whether they will light the public buildings with gas or not.

Clause 8.—The Government or Municipal Commissioners to undertake that no
Imperial or Municipal Custom duties shall be charged on the apparatus, mains, and
meters, or materials necessary for the construction of the works, or on the coal or
materials required in working, during the term of the concession.

The words in red show the alterations in the original proposal, and the whole,
together with our letter of December 9th, 1863, we now beg to submit to your Ex-
cellency as a new proposition on the subject.

We remain, &c.,

(Signed) H. P. STEPHENSON, M. I. C. E.,
Deputy Chairman of the Crystal Palace
District Gas Company, Limited;
Chairman of the Singapore Gas Compy.,
Limited;
Director of the Bahia Gas Company,
Limited;
Consulting Engineer to the County and
General Gas Company, Limited;
Engineer to the West London Junction,
Gas Company, Limited.

(Signed) ROBERT KING, Civil Engineer,
Engineer and Secretary to the Singapore
Gas Company, Limited.

(Signed) W. TAYLOR,
Merchant.
(Signed) W. C. HADDON,
Merchant and Manufacturer.

(Signed) PETER ORR,
Mount Road, Madras.

Correspondence as to Madras Gas.

COPIES.

From the Chairman of the Singapore Gas Company, and other Gentlemen, to His Excellency Sir
WILLIAM DENISON, K. C. B., &c. &c. &c., Governor of Madras; dated 25 Poultry,
E. C., London, 9th December 1863.

Our attention having been called by various gentlemen now resident in Madras, and by others
who have formerly resided there, to the desirability of lighting that City with gas, from our connec-
tion with similar undertakings, and also from our general experience and knowledge of this sub-
ject, we believe that if a concession for lighting Madras was granted to us on the following or
somewhat similar terms, we should be able, through our numerous friends and connections in the
gas interest, to form a Company to raise the necessary Capital, and we are further of opinion
that such a scheme, properly carried out and managed, would yield a remunerative profit to the
shareholders.

The following would be the terms we should propose, viz.—

Clause 1.—The Government to grant to us, or to any Company to be formed by us, the
exclusive right to erect gas works, and to break up the public thoroughfares for the purpose of
laying gas pipes, such roads to be made good to the satisfaction of the Government Civil Engineer
for a period of 40 years from the date of granting the concession, and, if necessary, the consent of
the Municipal Commissioners to be obtained thereto. At the end of the above named period, the
works, mains, and apparatus to become the property of the Government or Municipal Commissioners
(if either of those authorities should so desire) at a valuation to be made by two independent
parties, one chosen by each side, or by an umpire appointed by them, such valuation to include an

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allowance for good-will. In the event of the Government or the Municipal Commissioners electing not to take the works, the concession to be renewed to us for a further period of 30 years, at the end of which second term the works, mains, and apparatus and good-will are to become the absolute property of the Government or Municipal Commissioners, as may be arranged between them, without any payment whatever.

Clause 2.—The Government to provide us with a piece of ground, somewhere between Triplacane and Milapore, on the coast, and not subject to floods, and favorably situated for the construction of gas works.

Clause 3.—The first lighting of the City to take place within two years after the granting of the concession, and the whole of the street lamps contracted for to be completely finished and lighted up within six months after that date.

Clause 4.—The whole of the works and apparatus to be constructed, and the mains laid, at our own expense, or at the expense of the Company to which we assign the concession.

Clause 5. The Government or the Municipal Commissioners to enter into a contract with us, for the term of the concession, for the public lighting of the City for such number of lamps as the Government or Municipal Commissioners may think fit, it being understood, however, that we shall not be compelled to lay mains at first where the public lighting would be unremunerative, which would be the case where the public lights are placed at greater distances than 90 yards apart. The lamp-posts, lanterns, and fittings of the same to be the property of the Government or Municipal Commissioners, but to be provided and erected by us at a cost of £4-10-0 per lamp complete; if the present lamp-posts and lanterns, by alterations, can be applied, the same to be made available at the expense of the Government or Municipal Commissioners. The said lamps to be lighted 27 days in each month for all the year, and to burn on an average for ten hours per night, at the rate of 5 cubic feet of gas per lamp per hour; the illuminating power of the gas to be 12 sperm candles, such being the standard named in the Metropolis (London) Gas Act of 1860. The price for the supply of gas to these lamps, together with the charge for lighting, putting out, cleaning, painting, and repairs, to be £8-8-0 per lamp per annum, so long as the Company pay to their shareholders a less dividend than 10 per cent. Should the Company pay more than 10 per cent. the following reduced prices will be charged; such reduced charges to take effect from the quarter day next following the date at which such increased dividend may be paid.

	£.	s.	d.
If the dividend be over 10 per cent. and under 11 per cent. the price per annum will be.....	8	0	0
Do. more than 11 per cent. and less than 12 per cent	7	12	0
Do. " 12 " " 13 "	7	4	0
Do. " 13 " " 14 "	6	16	0
Do. " 14 " " 15 "	6	8	0

and if more than 15 per cent., the price of £6-8-0 will be further reduced at the rate of £1-5-0 for every one per cent. paid in dividend more than 15 per cent. If the public lamps are lighted only eight months in the year, the charge to be two-thirds of that charged for 12 months lamps, with 10s. added per lamp per annum in each case.

Clause 6. The price for gas to private persons, of the illuminating power of 12 sperm candles, and to be measured and paid for by meter, to be at the rate of 16s. per 1000 cubic feet, so long as the dividend of the Company is under 10 per cent.

	£.	s.	d.
If over 10 per cent. and less than 11 per cent., the price per 1000 cubic feet to be	0	15	0
Do. 11 " " 12 "	0	14	0
Do. 12 " " 13 "	0	13	0
Do. 13 " " 14 "	0	12	0
Do. 14 " " 15 "	0	11	0

If more than 15 per cent., the price of gas per 1000 cubic feet of 11s. to be further reduced at the rate of 2s. 2d. per 1000 cubic feet for every one per cent. paid in dividend more than 15 per cent.

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Clause 7. The price of gas to the Government and Municipal public buildings to be charged for at a price less by 15 per cent. than the price charged to private consumers.

Clause 8.—The Government or Municipal Commissioners to undertake that no Imperial or Municipal Customs duties shall be charged on the apparatus, mains, and meters, necessary for the construction of the works, or on the coal or other materials to be used in the construction or working, during the term of the concession.

We remain, &c.,

(Signed) H. P. STEPHENSON,
Chairman of the Singapore Gas Company,
Limited;
Deputy Chairman of the Crystal Palace
District Gas Company, Limited;
Director of the Bahia Gas Company,
Limited;
Director of the Continental Gas and Water
Company, Limited;
Engineer to the County and General Gas
Company, Limited;
Engineer to the West London Junction Gas
Company, Limited.

(Signed) ROBERT KING, Civil Engineer,
Engineer and Secretary to the Singapore
Gas Company, Limited.

(Signed) WM. TAYLOR,
Merchant, late of Madras.

(Signed) W. C. HADDON,
Merchant, London.

Letter to Sir CHARLES WOOD, Bart.

From the Chairman of the Singapore Gas Company, and other Gentlemen, to the Right Honorable Sir CHARLES WOOD, Bart., Secretary of State for India; dated 25 Poultry, E. C., London, 23rd December 1864.

We beg most respectfully to hand you enclosed copy of a proposal which we have made to Sir William Denison, Bart., K. C. B., Governor of Madras, for lighting the City of Madras with coal gas.

We desire to call your attention to the advantages it would be to Madras if the City were so lighted, and trust that you will give such assistance and co-operation in the matter as may seem to you proper and expedient.

We have the honor to be, &c.,

(Signed) H. P. STEPHENSON.
(") R. KING.
(") W. TAYLOR.
(") W. C. HADDON.

Reply.

From H. MERIVALE, Esq., Under Secretary of State for India, to Messrs. H. P. STEPHENSON, W. TAYLOR, and others; dated India Office, London, 5th January 1865.

I am directed to acknowledge the receipt of your letter of the 23rd ultimo, forwarding a copy of a proposal made by you to the Governor of Madras for lighting the City of Madras with coal gas, and soliciting the assistance and co-operation of the Secretary of State in the matter, and in reply, I am to inform you that your request can only be considered by Sir Charles Wood, in the event of a reference on the subject being made to him by the Government of Madras.

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1st December 1866.**

Letter sent to the Members of the Chamber of Trade and Commerce.

From W. TAYLOR, Esq., Merchant, late of Madras, to the Members of the Chamber of Trade and Commerce, Madras ; dated 25 Poultry, E. C., London, 9th December 1863.

I have the honor to transmit to you, through my friend Mr. Oakes, for presentation to the Government, an offer to light Madras with gas, on condition that certain privileges are conferred by the Government.

2. Having carefully perused the terms of proposed concession, and being of opinion that, if such a concession was granted, it would be of great advantage to the comfort of the inhabitants, I have become one of the requisitionists.

3. Two of the other gentlemen who have signed the requisition are practically experienced in gas manufacture and distribution. It will not be necessary for me to point out to you the great advantages possessed by gas over oil for lighting purposes, viz., cleanliness, greater amount of illuminating power, comfort, and no inconvenience with the former, compared with the troublesome, uncleanly, and small amount of illuminating power possessed by the latter.

4. I have also to draw your attention to the following towns which are at present about to be lighted with gas :—

Singapore will be lighted probably at the end of February 1864.

Hong Kong, commencement of 1864.

Bombay, about August 1864.

Shanghai about August 1864.

Concessions are in course of being granted for lighting with gas—

St. Louis, Mauritius.

Colombo, Ceylon.

It appears to me that Madras should not be behind hand in the march of improvement, when smaller towns are showing the example. I would, therefore, impress on the Members the necessity of their using their influence in presenting the letter to the Governor, so that so desirable an object might at once be attained.

Letter to Sir W. Denison.

From W. C. HADDON, Esq., and other Gentlemen, to His Excellency Sir W. DENISON, K. C. B., &c. &c. &c. ; dated 3rd August 1864.

We would most respectfully bring before your notice an official letter, dated 9th December 1863, addressed to your Excellency, applying for a concession for lighting the City of Madras with gas. May we urge your Excellency to take into consideration our letter, and grant us your official reply.

We are, &c.,

(Signed) W. C. HADDON.

(") W. TAYLOR.

(") H. P. STEPHENSON.

(") R. KING.

Sir W. Denison sent his printed reply, dated 7th January 1865, of which Mr. Orr got a copy the other day when at 25 Poultry.

TOWNS NOW LIGHTED WITH GAS IN THE EAST

Calcutta

Singapore

Hong Kong

Shanghai

Bombay

St. Louis, Mauritius.

A notice of the Proceedings of the Chamber of Commerce and Trade, with respect to the application made by us for lighting Madras with gas, appeared in "the Overland Athenæum and Statesman" of 29th April 1864, where they mention

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that there are 530 Street Lamps at present in the town and suburbs of Madras. Annual cost of lighting with oil is Rupees 7295, or
Rupees 13-12 per lamp.

Lamp at £ 8-8-0 for gas = Rupees 84 each per annum.

Of the 530, only 212 are within the maximum distance of 90 yards stipulated for.
(Signed) R. KING.

LONDON, DECEMBER 14th, 1865.

We, the undersigned, authorize Mr. Peter Orr, of 13 Loraine Road Holloway, London, (who is proceeding to Madras on his own private business), to negotiate a concession for lighting the city of Madras with gas, on the terms of the proposal sent by us to His Excellency the Governor of Madras, dated December 12th, 1865.

(Signed) W. TAYLOR,

Merchant and Agent.

(") W. C. HADDON,

Merchant and Gas Tube Manufacturer.

(") ROBT. KING,

(") H. P. STEPHENSON.

Referred to the Municipal Commissioners, for their remarks.

FORT SAINT GEORGE,

9th June 1866.

(Signed) J. D. SIM,

Acting Chief Secretary.

No. 20. From the Municipal Commissioners for the Town of Madras, to the Chief Secretary to Government, Fort Saint George; dated Madras, 22nd June 1866.

In returning the Singapore Gas Company's letter to the Right Honorable the Governor, dated London, 12th December last, making a fresh proposal for lighting Madras with gas, referred for our remarks on 9th instant, we have the honor to report that we think the modified proposal of this Company deserving of the favorable consideration of Government; but we beg to point out that it would be necessary for any Company obtaining a right to break up the public roads (for the purpose of laying Pipes or any other reason) to guarantee a clear roadway of at least fifteen feet along such broken up ground, and a substantial fence or hoarding between the roadway and the excavation; also substantial wooden crossing platform or bridge of 15 feet width, with side rails, wherever such excavation cuts across a roadway; also substantial damages per diem in the event of undue delay in the execution of works necessitating the breaking up and reforming of the public roads.

2. We cannot, of course, in any way pledge ourselves as to the amount of gas likely to be taken for public street lamps, as our present income will not admit of our incurring any heavy additional expense for lighting; but we are sanguine that when the superiority of gas over oil lights is made manifest to the Native community, they will not object to a small extra rate on their landed property for the purpose.

No. 21. From Mr. P. ORR, to the Secretary to Government, Public Works Department, dated Madras, 28th November 1866 :—

1. In reference to the conversation I had with you yesterday, regarding the Gas in the Fort and its extension, I went over the works, tracing its distribution through Barracks and present supply of seventy lights.

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2. In Captain Goddard's Office I saw the plans and drawings of the supply as at present in use; also the new drawings of the intended extension, which is considerable, but not so heavy a job, or so difficult of execution as might not be done in a short time by parties experienced in such work.

3. I have no doubt whatever that the Singapore Gas Company would take it up at once, and execute the same without delay to the satisfaction of Government.

4. Mr. Stephenson, Mr. King, myself, and others have had an application before Government for some time, for special privileges for lighting Madras with Gas, and I understand Government has assented to the concession applied for.

5. The matter standing thus, I am certain that Government have only to express a wish that its plant in Gas work should be taken at a fair valuation, and the intended extension of the work should be carried out without delay, and it would be done. Mr. Stephenson and Mr. King are Engineers for the Singapore Gas Company, and the promoters will of course hand over the work to that Company.

6. If this proposal be approved of, no time should be lost in getting up copies of drawings of the Gas works as at present, and also those of the intended extension, so that the Company may at once see what is wanted and provide for the same.

7. As to the time it may require to complete this work, the following may be something near the mark:—

Suppose authority, instructions, and drawings go to England by the next regular Mail leaving this about the 12th proximo,

Advice	1 Month.
To prepare materials	1 Do.
Pipes, &c., via the Cape	4 Months.
To execute the works, here	3 Do.
	9 Months.

say by the end of August 1867.

8. If a proper man or two were sent out Overland, bringing the lighter materials with them, and using means and materials available here, the work might be completed sooner.

9. The foregoing is submitted for your consideration.

No. 22.

ORDER THEREON, 1st December 1866, No. 3,522

CIVIL WORKS, No. 4.

1. The Government consider the stipulations proposed by the Municipal Commissioners to be reasonable, and resolve to make them conditions of any agreement that may be entered into for the supply of Gas to the Town of Madras.

2. The Government consider that the term of exclusive privilege should not exceed 20 years, renewable, as proposed, for a second period of the same duration.

3. The site available for the purpose can be inspected at any time.

4. The concession respecting Customs duties on materials must be contingent on the confirmation of the Supreme Government; no Municipal dues will be levied on them.

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5. In other respects the Government approve of the offer made in the first of the letters above recorded, and will be prepared to conclude an agreement with the projectors, or any Company formed by them, provided that arrangements be set on foot by the 31st December 1867.

6. In regard to the supply of Gas to the Fort which forms the subject of Mr. P. Orr's letter of the 28th November, the Government will defer carrying out the extensions of the works adverted to in their Proceedings of the 6th October last, No. 3,187, (a copy of which will be furnished to Mr. Orr,) pending the submission by Messrs. Stephenson, King and others of a definite offer to take over the works in question at a fair valuation and to complete the necessary improvements and extensions within the time specified by Mr. Orr, viz., by the 31st August 1867.

(True Extract.)

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

To Mr. P. Orr, with G. O. No. 3,187 of 1866.
To the Superintendent Government Gas Works.
,, Public Department.
,, Military Department.
,, Superintending Engineer, 4th Division.
,, Municipal Commissioners.

Ed. S. T. Augustin.

No. 18.

To

THE CHAIRMAN OF THE SINGAPORE GAS COMPANY,
25 Poultry E. C., London.

Sir,

With reference to your letters of the 9th December 1863, and 3rd August last, submitting proposals for lighting Madras with Gas, I am directed by His Excellency the Governor in Council to inform you that, on full consideration of the subject, the Madras Government have come to the conclusion that the funds available, or likely to be available, for Municipal purposes in this town, are not sufficient to admit of your proposals being entertained. A copy of a report on the subject, which has been laid before Government by a Committee, who were appointed to report on the feasibility of the project, is enclosed for your information.

I have the honor to be,

Sir,

FORT SAINT GEORGE,
7th January 1865.

Your most obedient Servant,

J. A. Arbuthnot
Chief Secretary.

From the Committee appointed to report on the feasibility of lighting Madras with Gas, to the Honorable A. J. ARBUTHNOT, Chief Secretary to Government, Fort Saint George; dated 23rd November 1864.

We have the honor to report that, in accordance with the instructions conveyed in the orders of Government in the Public Department, No. 1167, dated the 17th October last, we have collected such information as appeared useful for determining the question of lighting the town of Madras with gas, and of the feasibility of raising the necessary funds for meeting the charge, which would fall on the Municipal Commission, should the proposal of the Singapore Gas Company be adopted by the Government.

2. By the abstract (Appendix A) it will be seen that the total number of gas lamps which will be required for the town of Madras (as contained within the Municipal limits) is 1215; of these 972 lamps would be at intervals of 90 yards, the greatest distance considered by the Singapore Gas Company remunerative, and 243 lamps would be at longer intervals than 90 yards.

3. At the maximum rate proposed (so long as the Company pay to their share-holders a less dividend than 10 per cent.), namely, £8-8-0 per lamp, the cost which would be entailed on the Municipal Commission may be stated, in round numbers, at £10,000 per annum, if the proposal of the Singapore Gas Company that the lamps shall be lighted 27 days in each month for all the year, and to burn on an average for 10 hours per night, at the rate of 5 cubic feet of gas per lamp per hour, be accepted.

4. In the Memorandum prepared by Dr. Wyndowe (vide Appendix B) it is calculated that the consumption for each light would be 3 cubic feet per hour, for 10 hours, the lamps to be lit for 30 days in each month.

5. According to this calculation, the cost of lighting Madras, within the Municipal limits, exclusive of Government buildings, may be roughly stated at £7000 per annum.

6. The cost of lighting every public building, and such as would not be defrayed from the Municipal funds, we have roughly estimated at about the same cost as for the lighting of the remainder of the town, namely £10,000 at the rate proposed by the Singapore Gas Company, and £7000 as proposed by Dr. Wyndowe; so that the total income to be derived by the Singapore Gas Company, if their proposal be adopted, would be about £20,000.

7. It will be observed from Dr. Wyndowe's paper that, taking the Fort as an example, the adoption of the offer of the Singapore Gas Company would entail an increased expenditure of Rupees 1280-13-3 per mensem for the Fort alone, as compared with the cost at present incurred for the Government Gas Works.

8. We, however, concur with Dr. Wyndowe in thinking that, although the Government can manufacture coal gas, on a limited scale (such as for the lighting of the Fort), more cheaply than is proposed by the Singapore Gas Company, it would not be correct to pronounce that the terms proposed by the Singapore Gas Company for lighting the whole of the Presidency town are exorbitant.

9. In estimating the proposal it must be remembered that the larger undertaking will necessitate the employment of scientific superintendence, and the erection of large and costly buildings. Dr. Wyndowe is of opinion that, having these considerations in view, and the small demand that there will be for some time to come for gas light by private individuals, the proposal of the Singapore Gas Company is deserving of the favorable consideration of Government, in so far as regards the cost which it will entail; and in this opinion we concur. The feasibility of raising the necessary funds as a Municipal charge remains to be considered.

10. This might be done by raising the present Municipal rate to 10 per cent., and by devoting the additional $2\frac{1}{2}$ per cent., to meet the cost entailed by lighting the town with gas; or the Municipal Commissioners might be vested with power to levy both gas and water rates, whenever they are able to provide these most essential improvements.

11. An increase of the present Municipal rates from $7\frac{1}{2}$ to 10 per cent. would raise a sum of 70,000 Rupees, the amount required for lighting the town with gas, according to Dr. Wyndowe's calculation.

12. The Municipal Commissioners are unable, without such an increase of the general rates as proposed above, or without the levy of a special rate for lighting, to suggest any means of providing the necessary funds. They are unable to raise any loan on debentures, to be devoted to drainage and other public works emergently required, which might enable them to set aside a portion of the present annual income for the purpose of lighting the town. The present Municipal income is entirely absorbed in the current expenses of conservancy, road-making, and lighting, and is found insufficient for the many emergent necessities of the town; so that, even if any addition were to be made to the Municipal rates, we agree with the Municipal Commissioners in thinking that the requirements of public thoroughfares and conservancy must, in justice to the rate-payers, be met before even so necessary an improvement as good lighting is provided.

13. Further, it has been represented to us, on behalf of the Municipal Commission, that it would not be advisable at the present moment to appropriate the future financial resources of the Municipal Commission, by undertaking so costly an engagement as is involved in the proposal under discussion.

14. In a circular, No. 2246, from the Secretary to the Government of India, Financial Department, dated 31st August 1864, it is intimated that, in future, a large

portion of the cost of the Police will fall upon the inhabitants of cities and towns, and, although it is to be presumed that some of the purely local funds raised in Madras, which are now absorbed in the general revenues, would under this altered state of things be included in the funds available for Municipal purposes, it does not appear to the Municipal Commissioners that this is a favorable time for them to alienate any of their resources, present or future. We concur in this opinion, and must, therefore, conclude that the Municipality are unable to incur the expense of lighting Madras with gas.

15. The funds at their disposal are clearly inadequate to provide ordinary metalled road-ways in some of the most populous parts of their limits. The surface drainage and the most necessary and emergent subsoil drains are incomplete, and the necessity for some means of removing the house sweepings of the town to more distant depots, than those at present in use, is pressing upon the Commissioners.

16. It may be necessary for these purposes, and to meet the impending charge of the Police, to raise additional rates, and it would not be prudent, under these circumstances, to incur a heavy expenditure for gas, which, however advantageous and desirable, is not felt by the inhabitants of the city to be as emergently required as good roads, an ample supply of good water, efficient drains, and complete conservancy.

(Signed) G. LATCHMENARSU CHETTY,
(") F. TEMPLE, *President of the Municipal Commission.*
(") S. J. WYNDOWE, M. D.,
(") J. SHAW STEWART, Major, R. E.

A.
Abstract.

Names of Roads.	No. of Gas Lamps required at 90 yards interval.	No. of Gas Lamps at greater intervals.	Remarks.
Black Town.....	204	78	
Royapooram.....	92		
Vepery and Pursewalkum.....	206	69	
Chintadrepettah.....	37		
Triplicane.....	82	96	
Mylapore.....	35		
Mount Road.....	54		
Poonamallee Road.....	62		
Barber's Bridge do.	13		
Royapettah High do.	25		
Road over large Bridges.....	132		
" small " 	30		
Total...	972	243	

(Signed) R. E. NORFOR,
Civil Engineer.

CIVIL ENGINEER'S OFFICE,
MADRAS, 10th November 1864.
To the Municipal Commissioners, Madras.

B.

To enable an estimate to be formed of the probable increased expenditure for lighting public buildings, which would be incurred were Government to concede to the Singapore Gas Company

the privilege of lighting them, at the price stated in the letter from their Chairman, No. 75, dated London, 9th December 1863, viz., 8 Rupees per 1000 cubic feet, less 15 per cent., I have prepared the following statements.

I. Estimated cost of 500 lights for one month, supplied with coal Gas from the Government Works.

RS. A. P.

One ton of even inferior coal should yield 8500 cubic feet, and costs at present Rupees 25, allowing the consumption to each light to be 3 cubic feet per hour, for 10 hours, and calculating for 500* lights, the consumption in one month, of 30 days, would

* Probable requirements in the Fort.

be 4,50,000 cubic feet, and would cost in coals.

1441 2 9

NOTE.—The Coke produced in distilling the coal is more than sufficient to feed the furnaces, so no expense is incurred for fuel.

Cost of establishment including Superintendent's pay, per mensem.....

200 0 0

Cost of Government works calculated from Mr. Faulkener's estimate—

Gas holders and tanks.....

3760

Mains.....

1312

Laying down and fixing.....

1000

Piping.....

1221

Coal Gas fittings paid to Mr. Tonkin.....

1000

Retorts, set of 4.....

400

Estimated cost for extending the lighting in the Fort to say 500 lights 10,000

19,693

or say 20,000 Rupees, and allowing 12 per cent. interest upon the capital to include deterioration of plant, the interest for one month would be.....

200 0 0

* This estimate may appear small, but should be considered in connection with the 12 per cent interest on capital allowed. Contingencies, new Retorts, &c. say.....

60 0 0

Note.—The Retorts should last at least 12 months.

Total Rupees...

1901 2 9

Equal to Rupees 380-3-9 for 100 lights, or nearly Rupees 4-3-6 per 1,000 cubic feet.

II. Estimated cost for the same monthly consumption, viz., 450,000 cubic feet, if supplied by the Singapore Gas Company, at 7 Rupees per 1000 cubic feet.....

3150 0 0

Establishment for cleaning Globes, lighting as at present.....

32 0 0

Total Rupees...

3182 0 0

I believe the above statement to be a fair estimate. It is, if anything, in favor of the Singapore Gas Company; for, if the lighting were extended to the General Hospital, the present Government works, if worked continuously, would suffice, and the only additional expense to be incurred would be for mains, piping, and a gas-holder and tank in the vicinity of the Hospital, say an additional 10,000 Rupees to be added to the Capital, bearing interest at 12 per cent.; there would be no additional expense for plant at the works, nor for Establishment, so that, of course the proportionate cost for 100 lights per mensem, or 1000 cubic feet, would be somewhat less than now estimated.

This statement shews that were Government to concede to this Company the privilege of lighting the Fort alone, it would be at an additional cost to themselves of Rupees 1280-13-3 per mensem.

Although Government, at its own works, will be able to manufacture Coal Gas at a cheaper rate than the Singapore Company propose to supply it for, it must not be understood that, therefore, their charge is exorbitant. On the contrary, when the expenses they must unavoidably incur for Superintendence, cost of erecting buildings, employment of a scientific Engineer, and the necessity of paying a dividend to the shareholders of the Company, are considered in connection

with the probable small demand by private individuals there will be for the Gas, I am of opinion that they could not afford to sell at a lower rate than that proposed.

I have considered it my duty to point out what additional expense would be incurred by accepting the proposed contract; it is for the Government to decide whether, upon public or other grounds, they deem it advisable to encourage and support the undertaking, by conceding to the Company the proposed terms, which appear to me to be under the circumstances reasonable.

(Signed) S. J. WYNDOWE, M. D.,
Chemical Examiner.

MADRAS, 14th November 1864.

NOTE.—The greater number of lights burned in the Fort are in Barrack buildings, and their burners have smaller apertures than street lights would require; the lights are also dimmed at 10 P. M.; moreover, from actual experiment, I have ascertained the probable average consumption of gas for each light will be, as estimated, three cubic feet per hour. I state this in explanation of having based my calculations upon this consumption, instead of assuming it to be 5 cubic feet per hour, although, no doubt, for street lights that would be the average consumption.

(Signed) S. J. WYNDOWE, M. D.

Ed. J. H. Burns.

The

In Pub. No 508/66

-on 25/8/66

In Pub. No 508/66

1917
Madras November 28th 1866

1717
London December 14th 1865

We the Undersigned Authorize
Mr. Peter Orr of 13 Lorraine Road
Holloway London (who is proceeding
to Madras on his own private business)
to negotiate a Concession for lighting the
City of Madras with gas on the terms of
the proposal sent by us to His
Excellency

Governor of Madras dated December
12th 1865

W. Taylor Merchant Valuer

W. C. Addison Architect and
General Engineer

Robt. Long

W. C. Addison

has assented to the concession applied
for.
The

Madras November 28th 1866

To
The Secretary, to Government.
Public Works Department.
Fort St George

Sir,

In reference to the conversation I had with you yesterday regarding the Gas in the Fort and its extension, I went over the works, tracing its distribution through Barracks and present supply of 70 lights.

In Captain Gaddard's Office, I saw the Plans and Drawings of the supply as at present in use; also the new drawings of the intended extension, which is considerable, but not so heavy a job on so difficult of execution as might not be done in a short time by parties experienced in such work.

I have no doubt whatever that the Singapore Gas Company would take it up at once and execute the same without delay, to the satisfaction of Government.

Mr Stephenson, Mr King, myself, and others have had an application before Government for some time, for special privileges for lighting Madras with Gas, and I understood Government has assented to the concession applied for.

The

By 5088/66

By 5088/66

21/17
The matters standing thus, I am certain that government have only to express a wish that its Plant in forework should be taken at a fair valuation and the intended extension of the work should be carried out without delay and it would be done. Mr Stephenson and Mr King are Engineers for the Singapore Gas Co. and the promoters will of course, hand over the work to that Company.

If this proposal be approved of, no time should be lost in getting up copies of drawings of the Gas Works as at present and also those of the intended extension, so that the Company may at once see what is wanted and provide for the same.

As to the time it may require to complete this work, the following may be something near the mark:-

Suppose authority, instructions and drawings go to England, by the next regular mail leaving this about the 12th proximo -

Advice	1 month
To prepare materials	1 "
Pipes, etcetera, via the Cape	4 months
To execute the works, here	3 "
	9 months

say by the end of August 1867.

If a proper man or two were sent out on board, bringing the lighter materials with them and using means and materials available here, the work might be completed sooner.

I have the honor to be,
Sir,
Your most obedient Servant.

P. B.

To The Chief Secretary to Government.
Fort Saint George.

Sur,

In returning the Singapore Gas Company's letter to the Right Honorable the Governor, dated London 12th December last, making a fresh proposal for lighting Madras with Gas, referred for our remarks on 9th Instant, we have the honor to report that we think the modified proposal of this Company, deserving of the favorable consideration of Government; but we beg to point out that it would be necessary for any Company obtaining a right to break up the Public Roads (for the purpose of laying Pipes or any other reason) to guarantee a clear roadway of at least fifteen feet along such broken up ground, and a substantial fence or hoarding between the roadway and the excavation; also substantial wooden

wooden

Copy in as follows to England
 2/5 - Purchased 10/10/1867
 P. P. 1867 - 1868
 Pro. of 1867 for December
 1867

From
Mr. J. C. M.
The Secy: of Genl.
J. H. S.

Of 28th Jan
 Geo. McGee, } 1855-1856

Submitting and in
proposed for lighting
the barracks in the
Fort with Gas.

2832-1st Decr/66

122

wooden crossing platform or bridge of 15 feet width with side rails wherever such excavation cuts across a roadway; also substantial damages per diem in the event of undue delay in the execution of works necessitating the breaking up and reforming the Public Roads.

2. We cannot of course in any way pledge ourselves as to the amount of Gas likely to be taken for Public Street-lamps, as our present income will not admit of our incurring any heavy additional expense for lighting, but we are sanguine that when the Superiority of Gas over oil lights is made manifest to the Native Community, they will not object to a small extra rate on their landed property for the purpose.

He

may get it from them -

Dr. My wife calculated

the cost of the first gas (for 500
lamps) - could bring N_2 25 per ton
at N_2 4.3. 0 per 1000 C.H.

The pre sent proposed instrument. b
near Rs 5 - for 1000 C. fl. In that
it seems reasonable - if cost
remains at about the same
price - 1/1 1/2 1/2

The proposal seems to
me better if considered as to
a limit being fixed as to
the time within which a
round C^o can ~~be~~ formed &
the Courts' expenses being at-
tributed to it & the regularly formed
S. S. Co.

We have the honor to be
Sir
Your most Obedient Servants

Accepted. President
A. A. A. A.

Leeds

St. Petersburg.

Standardized

Municipal Commissioners
for the Port of Madras

Page (1)
Correspondence as to Madras for
(My 25 Poultry London
9th December 1863
To His Excellency
Sir William Denison K.C.B.
Governor of Madras

Sir Our attention having been called by various gentlemen now resident in Madras and by others who have formerly resided there to the desirability of lighting that City with gas from our Connection with similar undertakings and also from our general experience and knowledge of this subject we believe that if a Concession for lighting Madras was granted to us on the following or somewhat similar terms we should be able through our numerous friends & connections in the gas interest to form a Company to raise the necessary Capital and we are further of opinion that such a scheme properly carried out and managed would yield a remunerative profit to the Shareholders.

The following would be the terms we should propose viz

Clause I The Government to grant to us or to any Company to be formed by us the exclusive right to erect gas works & to break up the public thoroughfares for the purpose of laying gas pipes such roads to be made good to the satisfaction of the Government Civil Engineer for a period of 40 years from the date of granting the Concession

13
Copy in a letter to Englund
of St. Petersburg of 10 of 1867

P. H. H. Sept 1857

The Manager of the Institution
for the Deaf and Dumb

Secretary of the Government
Washington

Q. a. 22.2 { Dec. 1866
No. 2 22.2 {
Dec. 1866

252

Be remembering that
the modified purpose
of the digressions
from primary ac-
cidents and accidents
and accidents

[illegible]

Reserved for consideration in Council

For Or den.

A previous proposal was de-
clined - on the ground that
the Municipality could
put a short back a highway on
God. The problem is the hotel however
leaves it up to you as to put
on the Municipality - to take
the food - or not - at the price is
reduced from \$8 to \$5-18
per lunch - the cost of oil
can be being 13.12 = \$1-7.6
But the Co or the Republic
refuse to immediately for 40
years - is that if put on the mu-
nicipality would pay & they can

(2)
if necessary the consent of the Municipal Commissioners to be obtained thereto. At the end of the above named period the works mains & apparatus to become the property of the Government or Municipal Commissioners (if either of those authorities should so desire) at a valuation to be made by two independent parties one chosen by each side or by an umpire appointed by them such valuation to include an allowance for good will; in the event of the Government or the Municipal Commissioners electing not to take the works the Concession to be renewed to us for a further period of 30 years at the end of which second term the works, mains & apparatus & goodwill are to become the absolute property of the Government or Municipal Commissioners as may be arranged between them without any payment whatever.

Clause 2 The Government to provide us with a piece of ground somewhere between Triplicane & Melapur on the coast and subject to floods & favourably situated for the construction of gas works.

Clause 3 The first lighting of the City to take place within 2 years after the granting of the Concession & the whole of the street lamps contracted for to be completely finished & lighted up within 6 months after that date.

Clause 4 The whole of the works & apparatus to be constructed & the mains laid at our own expense or at the expense of the Company to which we assign the Concession.

Clause 5 The Government or the Municipal Commissioners to enter into a contract

(3)
with us for the term of the Concession for the public lighting of the City for such number of lamps as the Government or Municipal Commissioners may think fit it being understood however that we shall not be compelled to lay mains at first where the public lighting would be unremunerative which would be the case where the public lights are placed at greater distances than 90 yards apart; the lamp posts lanterns & fittings of the same to be the property of the Government or Municipal Commissioners but to be provided & erected by us at a cost of £4.10 per lamp complete; if the present lamp posts & lanterns by alterations can be applied to the same to be made available at the expense of the Government or Municipal Commissioners.

The said lamps to be lighted 27 days in each month for all the year and to burn on an average for 10 hours per night at the rate of 5 cubic feet of gas per lamp per hour the illuminating power of the gas to be 12 standard candles such being the standard named in the Metropolitan (London) gas act of 1860. The price for the supply of gas to these lamps together with the charge for lighting, putting out, cleaning, painting & repairs to be £8.8. per lamp per annum so long as the Company pay to their shareholders a less dividend than 10 per cent.; should the Company pay more than 10 per cent. the following reduced prices will be charged such reduced charges to take effect from the quarter day next following the date at which such increased dividend may be paid.

(14)

(14)

If the dividend be only 10 per. cent. under
11 per. cent. the price per annum will be $\$8$ — —
do — more than 11 per. cent. less than 12 per. cent. $\$7.12$ —
" — " — 12 — " — " — 13 — " — $\$7.4$ —
" — " — 13 — " — " — 14 — " — $\$6.16$ —
" — 15 — " — 14 — " — " — 15 — " — $\$6.8$ —

and if more than 15 per cent. the price of \$6.8 will be further reduced at the rate of \$1.5 for every one per cent. paid in dividends more than 15 per cent. If the public lamps are lighted only 8 months in the year the charge to be $\frac{2}{3}$ of that charged for 12 months lamps with 10¢ added per lamp per annum in each case.

Case 6 The price for gas to private persons of the illuminating power of 12 sperm Candles & to be measured & paid for by meter to be at the rate of 15¢ per 1000 cubic feet so long as the dividend of the Company is under 10 per. cent.

St. over 10 per. Cent. & less than 11 per. Cent. the	} 13 1/2
Price per 1000 Cubic feet the	
— " — 11 — " — 12 — " —	
— " — 12 — " — 13 — " —	
— " — 13 — " — 14 — " —	
— " — 14 — " — 15 — " —	14 1/2
	13 1/2
	12 1/2
	11 1/2

If more than 15 per. cent. the price of
gas per 1000 cube feet of 11/10 per 1000 cube
feet to be further reduced at the rate of
2 1/2 per. 1000 cube feet for every one per. cent.
paid no dividend more than 15 per. cent.

Case 7 - The price of gas to the government
+ municipal public buildings to be
charged for at a price less by 15 per.
cent than the price charged to private

5

Consumers.
Clause 8 The Government or Municipal Commissioners to undertake that no Imperial or Municipal Customs duties shall be charged on the apparatus, mains & meters necessary for the construction of the works or on the coal or other materials to be used in the construction of ~~the works~~ or working during the term of the concession.

The remaining
 your des^s Servants
 (signed) H. P. Stephenson (Chairman of the
 Singapore Gas Co^l Limited. Deputy Chairman
 of the Crystal Palace District Gas Co^l Limited
 Director of the Bahia Gas Co^l The Continental
 Gas & Water Co^l Engineer to the County General
 Gas Co^l Limited. Engineer to the West London
 Junction Gas Co^l Limited.
 (signed) Robert King Civil Engineer - Engineer &
 Secretary to the Singapore Gas Co^l Limited
 (signed) William Taylor Merchant late of Calcutta
 (signed) W. C. Haddon Merchant London.
 J. S. Wood Esq.

Copy of letter to Sir Charles Wood
25 Poultry E.C.
To The Right Honourable Sir Charles Wood Bart.
Secretary of State for India
23rd December 1864
Sir/ We beg most respectfully to
hand you enclosed copy of a proposal
which we have made to Sir William
Denison Bart. H.C. B. Governor of
Madras for lighting the City of

(6)
Madras with coal gas.
We desire to call your attention to
the advantages it would be to Madras if
the City were so lighted & trust that
you will give such assistance and
cooperation in the matter as may
seem to you proper & expedient.

We have the honour to be
your obed^t humble servants
(signed) H. P. Stephenson
(or) - A. King
(do) - H. Taylor
(do) - W. C. Anderson

Reply from Sir (Mr) Wood Park:
India Office London
5th January 1865

Gentlemen/ I am directed to acknowledge
the receipt of your letter of the 23 ulto.
forwarding a copy of a proposal made
by you to the Governor of Madras for
lighting the City of Madras with coal gas
& soliciting the assistance & cooperation
of the Secretary of State in the matter.
and in reply I am to inform you
that your request can only be
considered by Sir (Mr) Wood in the event
of a reference on the subject being made
to him by the Government of Madras.

I am gentlemen
Yours obed^t servants
(signed) Herman Merivale
[Copy of letter sent to the members of
the Chamber of Trade & Commerce
Decr - 9th 1863]

(7) 25 Poultry F.C. 7
9th Decr 1863
To the members of the Chamber of
Trade & Commerce.
Gentlemen. I have the honour to
transmit to you through my friend
Mr Onkes for presentation to the Government
an offer to light Madras with gas
on condition that certain privileges are
conferred by the Government.
I have carefully perused the terms
of proposed Concession & am of opinion
that if such a concession were granted
it would be of great advantage to the
comfort of the inhabitants I have
become one of the requisitionists.
Two of the other gentlemen who have
signed the requisition are practically
experienced in gas manufacture &
distribution. It will not be necessary
for me to point out to you the great
advantages proposed by gas over oil for
lighting purposes. The cleanliness
greater amount of illumination power
comfort & no inconvenience with the
trouble compared with the troublesome
uncleanly & small amount of illumination
power proposed by the latter.
I have also to draw your attention
to the following towns which are at
present about to be lighted with gas
Singapore will be lighted probably
at the end of February 1864
Hong Kong - Commencement of 1864
Bombay - about August 1864
Shanghai - about August 1864
Canton - are in course of
1000 VII. 1111-1000
Madras

being granted (18) for lighting with gas
St Louis Mauritius
Colombo Ceylon

It appears to me that elders should not be behind hand in the march of improvement when smaller towns are showing the example. I would therefore impress on the members the necessity of their using their influence in presenting the letter to the Governor so that so desirable an object might at once be attained.

I am gentlemen
(signed) your obedt servant
William Taylor

Copy of letter to his W. Dennis 3^d August 1864
To/ Gen. E. A. P.

To/ Mrs. Galleney
by Mr. Denison H.C.B.

we would most respectfully bring
before your notice an official letter
dated 9th December 1863 addressed to
your Excellency applying for a concession
for lighting the City of Madrid with
gas. May we urge your Excellency
to take into consideration our
letter and grant us your official
reply.

Be true for
your obedient servants
(signed) N. C. Haddon
(do) - H. Taylor
(do) - L. P. Stephenson
(do) - R. King

(or) - R. King
 His Mr. Denison sent has printed reply
 dated 7th January 1865 of which I wrote
 on a letter the other day when at 25
 Pauling.

W. M. D. : Turns now lighted with gas
East.

Talents
Singapore
Hong Kong
Shanghai
Bombay
St Louis Mauritius.

A notice of the proceedings of the Chamber of Commerce & Trade with respect to the application ^{made by us} for lighting alleys with gas appeared ^{"The overland Athenaeum & Statesman"} in of 29th April 1864.

& "Staleness" of 21 ^{or 22} lamps
 where they mention that there are
 530 street lamps at present in the town
 & suburbs of Madras. Annual cost of
 lighting with oil is Rs 7295 or
 Rs 13.12 per lamp
 Lamp @ Rs 8.80 per lamp = Rs 84 each for annual
 of the 530 only 212 are within the
 maximum distance of 90 yards stipulated
 for.

Lamp @ 28-8 mps = 100 ft.
of the 530 only 2/2 are within the
maximum distance of 90 yards stipulated
for.

1000 077:11M-1000
shaded

London - 25 Poultry E.C. 1
December 12th 1865
presented 15th May 1866

To
His Excellency
The Right Honorable Francis Lord Napier K.T.
Governor in Council of Fort St. George.

My Lord

~~Referring~~ Referring to our letters of 9th
December 1863 & 3rd August 1864 and the
reply dated 7th January 1865 from the
Chief Secretary of the Madras Government
on the subject of lighting Madras with gas.
We beg to inform you that we have
re-considered the whole question with a
view if possible of meeting the points
suggested by the report of the Committee on
gas lighting and we shall be prepared to
modify our proposal in the following
particulars which we trust will meet
with the approval of your Excellency
& your Government and enable you under
such altered proposal to grant us the
concession we seek to obtain for the
lighting of Madras with gas.
Clause 1. The Government to grant to us
or to any company to be formed by us the
exclusive right to erect gasworks and to
break up the public thoroughfares for the
purpose of laying gaspipes such roads to
be made good to the satisfaction of the
Government Civil Engineers for a period of
forty years from the date of granting the

Wm. Pitt Rivers
Madras

Copy to Mr. Pitt Rivers
15.5.1866

Mr. Pitt Rivers

15.5.1866

(2)

Concession and if necessary the Consent of the Municipal Commissioners to be obtained hereof.

At the end of the above named period the Works Mains and Apparatus to become the property of the Government or Municipal Commissioners (if either of those authorities should so desire) at a valuation to be made by two independent parties one chosen by each side or by an umpire appointed by them such valuation to include an allowance for goodwill; in the event of the Government or the Municipal Commissioners electing not to take the Works the Concession to be renewed to us for a further period of thirty years at the end of which second term the Works, Mains Apparatus and Good Will are to become the absolute property of the Government or Municipal Commissioners as may be arranged between them without any payment whatever.

Clause 2. The Government to provide us with a piece of ground somewhere between Triplicane & Millapor on the Coast road subject to floods & favourably situated for the Construction of gas works.

Clause 3. The first lighting of the City to take place within two years after the granting of the Concession & the whole of the street lamps Contracted for to be completely finished & lighted up within six months after that date.

Clause 4. The whole of the Works & Apparatus to be Constructed & the Mains laid at our own expense or at the expense of the Company to whom we assign the Concession.

39
(3)

Clause 5. The Government or the Municipal Commissioners to have the power to enter into a Contract with us at any time that they may think fit during the term of the Concession for the public lighting of the City for such number of lamps as the Government or Municipal Commissioners might think fit; it being understood however that we shall not be compelled to lay Mains at first where the public lighting would be unremunerative which would be the case where the public lamps are placed at greater distances than 90 yards apart.

In the event of the Government or Municipal Commissioners electing at any time to make such a Contract then the lamp posts lamps & fittings of the same are to be provided and erected by us at a cost of £4.10.0 per lamp complete but to be the property of the Government or Municipal Commissioners; if the present lamp posts & lamps by alteration can be applied the same to be made available at the expense of the Government or Municipal Commissioners.

The said lamps to be lighted 30 days in each month for all the year and to burn on an average for 10 hours per night at the rate of 3 cubic feet per lamp per hour the illuminating power of the gas to be 12 sperm Candles such being the standard inserted in the Metropolis (London) Gas Act of 1860. The price for the supply of gas to these lamps together with the charge for lighting putting out clearing painting & repairs to be £5.18.0 per lamp per annum so long as the Company pay to the Shareholders a less dividend than 10 per Cent.

1000 077 1111 1000 1000
1000 077 1111 1000 1000

(4) Should the Company pay more than 10 per Cent the following reduced prices will be charged to take effect from the quarter day next following the date at which such increased dividend may be paid.

If the dividend be over 10 per cent. & under 11 per cent. $\pounds 5.12$ per annum to be

do	11	12	5.6
"	12	13	5
"	13	14	4.14
"	14	15	4.8

and if more than 15 per. Cent. the price of $\pounds 4.8$ will be further reduced at the rate of 15% for every one per. Cent. paid in dividend more than 15 per. Cent. If the public lamps are lighted only 8 months in the year the charge to be two thirds of that charged for 12 months lamps with 10% added per lamp per annum in each case.

Clause 6. The price for gas to private Consumers of the illuminating power of 12 sperm Candles to be measured and paid for by meter to be at the rate of 16s. per 1000 Cube feet so long as the dividend of the Company is under 10 per. Cent.

If over 10 per. Cent. & less than 11 per. Cent. the price per 1000 cube feet to be

11	12	14s.
12	13	13s.
13	14	12s.
14	15	11s.

If more than 15 per. Cent. the price of gas per 1000 Cube feet of 11s. to be further reduced at the rate of 2 1/2 per. 1000 Cube feet for every one per. Cent. paid in dividend more than 15 per. Cent.

50
 135 P.W.D.
 12.8832
 (5)
Clause 7.

The price of gas to the Government and Municipal Public Buildings to be charged for at a price less by 15 per. Cent. than the price charged to private Consumers. It being quite optional with the Government or Municipal Commissioners whether they will light the public buildings with gas or not.

Clause 8. The Government or Municipal Commissioners to undertake that no Imperial or Municipal Custom duties shall be charged on the Apparatus, Mains & Meters ^{or materials} necessary for the Construction of the Works or on the Coal or materials required in working during the term of the Concession.

The words in red show the alterations in the original proposal & the whole together with our letter of December 9th 1863 we now beg to submit to your Excellency as a new proposition on the subject.

We remain Sir
 your obedient servants

W. J. B. & Co.
 Deputy Chairman of the Crystal Palace District Gas Company Limited. Chairman of the Singapore Gas Co. Limited, Director of the Bahia Gas Co. Limited, Consulting Engineer to the County of Cornwall Gas Co. Limited, Engineer to the West London Junction Gas Co. Limited.
Robert King Civil Engineer
 Engineer & Secretary to the Singapore Gas Co. Limited.
W. Taylor Merchant
W. Addison Merchant & Manufacturer
Peter H. M. Road
Adrian

Copy in a Volume England
 of 5. Maria before of 1865
 P. 12. January, 1875 No. 32 C. 29
 of 13 October 1874 — 75 C. 33
 The ~~London~~ ^{London} ~~to the~~
~~with the~~ ~~London~~ ~~to the~~
~~the London~~ ~~London~~ ~~to the~~
~~32~~ ~~London~~ ~~to the~~
 London { London
 1865-3

[illegible][illegible]

From the Chairman
Singapore Gas Co. Ltd.

Municipal Commrs
for the Town of Madras

e. In Sp. Q₁₂.

(N. E. 12th Decr 1865 No. 588)

(N. E. 22^o June 1866 - N^o 756)

(28 Nov 1866 H^o —

The Government Con- sider the stipulations proposed by the Municipal Commission- ers to be reasonable, and resolve to make them Condi- tions of any agreement that may be entered into for the supply of Gas to the Town of Madras.

2. The Govt. considers that the term of exclusive privilege should not exceed 30 years, renewable, as proposed, for a second period.

of the same duration.

3. The side available
for the purpose can be in-
spected at any time.

4. The conception
respecting Customs Duties
on materials must be
Contingent on the Confirma-
tion of the Supreme Govt^y;
no Municipal dues will be
levied on them.

5. In other respects the Govt approve of the offer made in the first of the letters above recorded, and will be prepared to conclude an agreement with the projectors, or any Company formed by them, provided that arrangements be set on foot by the 31st Decr/69.

In regard to the

supply of gas to the
Fair which forms the sub-
ject of Mr P. Orr's letter
of the 28th Novr, the Govt
will defer carrying out
the operations of the works
admitted to in their Pro:
of the 6th Oct: last. No
3187 (a copy of which
will be furnished to
Mr Orr) pending the
submission by Messrs
Stephenson, King and
others of a definite offer
to take over the works in
question at a fair val-
uation and to complete
the necessary improvements
and extensions within the

To Mr. P Orr with ^{existing} time specified by Gov. Orr,
of Dec 21st 87 & /86
To Supt. South Gas Works / inst. by the 31st. Augt. /07.
To Public Dept - To the Municipal Commr
" " " " " " " "
" " " " " " " "
" " " " " " " "

Dec^r 3^d December . A.B.

Copy in a Letter to England
of 5: March No 10 of 1867

P W 1868 Decr

Pro. of Govt for Decr

No 3832

Pro. of the Madras Govt

Of the Decr 1868

Paying orders on
certain Correspondence
relative to the proposals
of the Singapore Gas Co
for the Supply of Gas to
the Town of Madras and
on a letter from Mr P.
Orr of Madras on the
subject of the Extension
of the Gas Works in Fort
Saint George.

No 19022