

1. Number of pages.
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MADRAS RECORD OFFICE.

Government of Madras.

Public DEPARTMENT.

G.O. No.	<i>1261</i>	<u>Press</u> <u>Mis</u>
Dated	<i>14-12-</i>	<i>1866</i>

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Department,
14th December 1866.

No. 39. Read the following Proceedings of Government in the Public Works Department, dated 1st December 1866, No. 3832.

Passing orders in reference to the proposal of Messrs. Stephenson, King and three other Gentlemen in England to light Madras with Gas. (Vide Proceedings, Public Works Department, dated 1st December 1866, Nos. 19—22.)

No. 40. ORDER THEREON, 14th December 1866, No. 1261.

To be recorded.

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

Read the following papers:—

No. 19. From the Chairman of the Singapore Gas Company, and other gentlemen, to His Excellency the Right Honorable the Governor in Council, Fort Saint George; dated 25 Poultry E. C., London, 12th December 1865.

Referring to our letters of 9th December 1863 and 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 reconsidered 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 and 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 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 forty 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 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 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 and Mylapore, 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 whom we assign the concession.

Clause 5.—The Government or the Municipal Commissioners to provide 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, and 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

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property of the Government or Municipal Commissioners; if the present lamp-posts and 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 days in each month for all the year, and to burn on an average for 10 hours per night, at the rate of cube 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, cleaning, painting, and repairs to be 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.

If the dividend be over 10 per cent., and under 11 per cent., the price per annum to be...

"	11	"	"	12	"	"	...
"	12	"	"	13	"	"	...
"	13	"	"	14	"	"	...
"	14	"	"	15	"	"	...

and if more than 15 per cent., the price of will be further reduced at the rate of 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 6							
"	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 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 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.

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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 Excellency 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 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 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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1st December 1866.*

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 Triplicane 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 cube 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 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 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 cube feet of 11s. to be further reduced at the rate of 2s. 2d. per 1000 cube 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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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

Shanghai

Singapore

Bombay

Hong Kong

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. 3,832.

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 30 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 advertised to in their Proceedings of the 8th 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 improvement and extensions within the time specified by Mr. Orr, viz., by the 31st August 1867.

(True Extract.)

Charles J. 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.

Pub. No. 23 Oct. 1868
Nov. 171-172

Miss J. S. De

Public 1882. 1884

Pro Geo. 3. 12. 1884
No. 3832

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No. 1534

Having received reference
to the proposed
to light houses with
Geo. 3. 12. 1884 No. 1261.
To be accepted