Public Works (1896) Department.

0826

G.O., No. 2493-4 W

Dated 27 August 1896.

[Despatch Abstract.]

Government Brickfields madras: Ordered that the sanction of the Govt of India be applied for to the publication of a Notice inviting tenders for the leasing from Govt of the — with the Brick & Lime kilns attached and to the subsequent execution of the lease.

Ditto: Requesting sanction to the publication of a Notice inviting tenders for the leasing from Govt of the — with the Brick & Lime kilns attached and to the subsequent execution of the lease.

INDEXED.

[P. W. 56.—500—13-2-96.]

BACK PAPERS.

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

FURTHER PAPERS.

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

GENERAL.
ACCOUNT.

Government {1896} of Madras.

PUBLIC WORKS.

Recd. } 1896. *Enclosures*

Regd. } *Spare copies*

G.O., No. 2493 W., 27th August 1896.

AUGUST.

Government Brickfields, Madras

Ordered that the sanction of the Government of India be applied for the publication of a notice inviting tenders for the leasing from Government of the — with the Brick and Lime kilns attached, and to the subsequent execution of the lease.

No. 2493 W., 27TH AUGUST 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Lieutenant-Colonel C. C. RAWSON, R.E., Acting Consulting Architect to the Government of Madras, to the Chief Engineer, Public Works Department, dated Chepâk, 27th July 1896, No. 2225.

In obedience to the orders contained in G.O., No. 562 W., dated 14th February 1896, I have the honour to forward, for consideration and orders, forms of notice and tender for the letting of the Government Brickfields, &c., received from the Government Solicitor.

2. As it is usual for the lessor's Solicitor to prepare lease and for the lessee to pay for it; the Government Solicitor states that provision has been made in the notice, that he shall prepare the lease at the expense of the lessee.

3. Information as to the survey number of the land to be leased out and for which blank space has been left in the form of notice will be filled in, on receipt of the same in complete form from the Deputy Collector of Madras.

4. One or two points would appear to require consideration. The actual value of the property to be leased out exceeds one lakh of rupees, and it appears to me that under Public Works Code, volume I, chapter I, paragraph 137 "Statutory Rules" clause III, sanction of the Government of India to the lease is necessary.

5. The lease in the present case is intended to endure for a period exceeding five years, and is not accompanied by an unconditional power of revocation by Government at any time during such period, on the expiry of six months' notice to that effect, and involves the cession of the rights of a property, the estimated value of which exceeds one lakh of rupees, I would also respectfully draw attention to clauses IV and V of the above rules.

ENCLOSURE.

NOTICE.

Tenders are invited for the leasing from Government, for a term of ten years, of the Government Brickfields, with the brick and lime kilns attached, situate at Egmore, Madras, together with the machinery and apparatus now in use thereon.

2. The lessee will, during the term of his lease, be required to supply, within a reasonable time after demand, to the Government of Madras at prices not exceeding the respective rates specified in the accompanying schedule, such quantities of the articles therein mentioned as may, from time to time, be required for Government purposes and of such quality as shall be approved by the Consulting Architect for the time being of the Public Works Department of the Government of Madras. An appeal will, however, be allowed to the Chief Engineer, whose decision as to the quality of any such articles shall be final and conclusive and altogether operative and binding upon the lessee.

3. The lessee will be required to deposit with the Consulting Architect aforesaid an amount equal to two years of the rent reserved by the lease, as security for the punctual payment of the rent reserved thereby and for the proper upkeep of the works comprised therein.

4. The lease will contain the usual provision that in case of non-payment of any rent reserved or the non-performance of any of the covenants by the lessee therein contained, the lessor, the Right Honourable the Secretary of State for India in Council, shall be at liberty to enter upon any part of the demised premises in the name of the whole and that thereupon the term of ten years shall absolutely cease and determine.

5. The lease will be prepared, in duplicate, by the Solicitor to the Government of Madras at the expense of the lessee, who will also have to pay the stamp duty on both parts of the lease and the cost of having same registered.

The following is believed to be a correct description of the land to be leased :—

Piece of land bearing survey numbers as described in the margin situate on the Poonamallee road at Egmore in the Sub-Registration district of Mount road, in the registration district of Madras, bounded on the north by the Poonamallee road and lands and houses belonging to private persons, on the south by the South Indian Railway line, on the east by wet land and a house and land belonging to Rajarathnam Naidu and on the west by houses and lands belonging to Ellayalwar Naidu and containing in the whole about 74½ acres.

The following is believed to be a correct description of the different branches of the Brickfields :—

Brick Manufacture.

There is one patent Hoffman's kiln with 12 chambers capable of burning (13) thirteen thousand bricks (10″ × 5″ × 3″) per day, also one Punjab kiln, 375 feet long, containing 15 chambers, which also can burn (13) thirteen thousand bricks per day. There are also a number of temporary and permanent sheds sufficient to deliver the quantity of raw bricks required daily. Most part of the clay is pugged by 4 pug mills worked by a twelve-horse power engine which are capable of pugging sufficient clay to mould from 15 to 20 thousand bricks daily. There is also a tram-line with branches a mile long with 24 trucks for bringing the clay to the pug mills and for conveying it after it is pugged to the several moulding tables. This tramway is worked by bullock power for which five pairs of bullocks are kept on the establishment.

There are also a large number of iron and wooden moulds sufficient to mould all the bricks required daily.

Terracottah Manufacture.

Consists of a number of cisterns for holding the washed and ground clays and for mixing them as also a large number of shallow cisterns for drying the clay. There are five large vats for grinding clay, quartz and felspar, worked by the same engine that works the pug mills.

Tile Manufacture.

Consists of—

Two-hand power machines with dies, complete, for making Mangalore pattern tiles, and each can press about 1,000 tiles daily.

Two hand presses for flooring tiles with dies, &c., complete, capable of turning out daily 1,000 tiles.

One hand Minton tile press for pressing Minton or dry earth tiles which can turn out 500 tiles per day.

There are also a number of cisterns for washing and drying all the clay required.

One hand-machine for pugging the washed clay and cutting it in slabs for tile making.

There are two stone breakers for breaking up the clinker or vitrified bricks into jelly, worked by the same twelve-horse power engine that works the pug mills and Terracottah vats.

Lime Kilns.

There are six kilns capable of turning out 500 parahs of lime per day and more if necessary, with tiled sheds for storing charcoal and slaked lime, as also platforms paved with bricks for slaking lime on and for stacking raw shells.

There are two wells on the premises which supply all the water required. The water is drawn from one of the wells by a series of buckets attached to a chain revolving on a cog-wheel worked by bullock power and from the other water is raised by a picottah.

Note.—The lease will not include the premises known as "The Wallajah Bagh."

The following is believed to be a correct list of the machinery and utensils in use for brick-field operations with their respective values :—

Quantity.	Description of machines.	Rate.	Per.	Amount.
		RS.		RS.
2 Numbers.	Machine tile making Clayton for pugging clay	300	Each.	600
1 Number.	Do. pressing square tiles	200	,,	200
3 Numbers.	Tile-making pressing machine (Europe) converted into Mangalore tile press.	700	,,	2,100
	Brick-pressing machine, Clayton, 3 single and double ..	..	,,	1,549
4 ,,	Minton tile press	946	,,	946
1 Number.	Mill-grinding	100	,,	100
1 ,,	Scale-beam, with chain and platform to weigh 1 ton	25	,,	25
1 ,,	Weights, iron	..	,,	193
27 Numbers.	Brick-testing machine	..	,,	500
1 Number.	Do. do.	..	,,	1,000
1 ,,	Engine, twelve-horse power	250	,,	3,000
1 ,,	Stone-breakers	100	,,	500
2 Numbers.	Pugs for pugging brick clay	300	,,	300
5 ,,	Do. for do. tile clay	..	,,	300
1 Number.	Saw, bench, with 3 circular saws	200	,,	1,000
1 ,,	Vats, complete, for grinding clay	..	,,	4,000
5 Numbers.	Trucks with about 1 mile of tram-line	..	,,	700
24 ,,	Screw gearing for drawing water	..	,,	
1 Number.			Total ..	17,513

The permanent buildings on the land are as follows :—

Measurements in feet and numbers.			Descriptions.	Remarks.
Length.	Breadth.	No.		
1	2	3	4	5
29 0	11 6	1	Watchman shed	Brick in mud walls with Mangalore tile roof.
113 9	30 6	2	Terracottah moulding shed and office ..	Brick in mud walls with palmyrah rafters and pantiles.
22 6	8 6	3	Do. do. office verandah.	Palmyrah rafters and Mangalore tiles.
84 0	32 0	4	Vats sheds for grinding clay	Walls, brick in mud, trusses, teakwood and palmyrah rafters covered with pantiles.
28 3	14 0	5	Stone-breaking machine shed ..	Terrace roof.
26 3	20 9	6	Engine shed	Walls, brick in mud, roof covered with pantiles over palmyrah rafters.
37 0	14 9	7	Pugging shed	Casuarina rafters covered with Mangalore tiles.
33 0	55 0	8	Mangalore and flooring tile-pressing shed.	Walls, brick in mud, roof with pantiles and palmyrah rafters.
		9	Terracottah moulding shed	Do. do. do.
53 0	31 3	10		Walls, brick in mud, covered over with Cuddapah slabs over which 3 inches concrete, well plastered. Inside fitted with Cuddapah slab shelves.
48 0	24 6	11	Cuddapah slab shelves for drying bricks.	
48 0	21 9	12		
48 0	24 6	13		
48 0	24 6	14		Walls brick in mud, roof with palmyrah rafters covered with pantiles.
54 3	32 3	15	Sheds for stacking dried bricks ..	
54 9	32 6	16		
52 6	31 3	17		Do. do. do.
52 3	31 6	18	Watchman shed and tile drying shed ..	Wall, brick in mud, roofs, zinc sheets over old iron rails.
93 9	29 6	19	Zinc roofed shed for drying bricks ..	Walls, brick in mud, roof palmyrah rafters covered with pantiles.
37 9	26 6	20		Do. do. do.
37 9	13 0	21	Shed for pugging clay for tiles ..	
63 9	20 9	22	Shed for drying bricks	
117 0	29 6	23		
49 6	12 0	24		
49 6	12 0	25		
49 6	12 0	26		Do. do. do.
49 6	12 0	27	Sheds for drying bricks	
49 6	12 0	28		
49 6	12 0	29		
49 6	12 0	30		
61 6	10 9	31		Do. do. do.
61 6	10 9	32	Watchman shed	With iron chimneys, &c., complete.
23 3	12 6	33	Punjab kiln	Patent kiln with chimney, &c., complete.
403 0	16 0	34	Patent kiln	Brick in mortar with dome roof.
364 0	12 0	35	Store	
29 0	32 0			

Measurements in feet and numbers. Length.	Breadth.	No.	Descriptions.	Remarks.
1	2	3	4	5
16 0	11 0	36		
16 0	11 0	37	Latrinee	Sun-dried brick in mud walls, stone pillars, roof with teak rafters and pantiles.
16 0	11 0	38		
16 0	11 0	39		
89 9	30 3	40	Charcoal and lime shed	Walls, brick in mud, roof palmyrah rafters and pantiles.
		a		
		b	Six chunam kilns with brick pavement.	....
		c		
		d		
36 0	35 0	41	Sub-Overseer's bungalow	Brick in mud walls, roof palmyrah rafters covered with pantiles.
48 0	44 0	42	Firemen's quarters ..	Do. do. do.
		43	Pottery kiln	....
		44	Well	....
		45	Do.	....
30 0	13 0	46		
16 0	17 6	47	Cisterns for drying washed clay ..	....
14 0	8 0	48		
		49	Grinding mill	Consists of two stone wheels with iron axle 3 inches diameter and 15 inches long revolving on stone slabs.
			All the other places not numbered are temporary thatched sheds.	

Sealed tenders accompanied by a deposit of 25 per cent. of the amount of the security required as above should be sent to the Consulting Architect to the Government of Madras at his office at Chepâk, Madras, by o'clock on the day of 1896. Sealed tenders should be superscribed "Tenders for leasing Government brickfields and brick and lime kilns, Madras."

Tenders will be opened by the Consulting Architect to the Government of Madras at his said office at o'clock on the day of 1896 in the presence of the tenderers or of such of them as may choose to attend.

The Government of Madras, on behalf of the Right Honourable the Secretary of State for India in Council, does not bind itself to accept the highest or any tender.

Printed forms of tender can be had on application to the Consulting Architect to the Government of Madras who will, on application, furnish to intending tenderers all requisite information as to capital cost, working expenses and outturn.

Conditions.

1. The property is believed and shall be taken to be correctly described as to quantity, numbers and otherwise and will be let subject to payment by the lessee of municipal assessment and other taxes and, if any error, mis-statement or omission in the above particulars be discovered, the same shall not annul the contract to lease nor shall any compensation be allowed by the lessor in respect thereof.

2. The successful tenderer shall pay the remainder of his security money to the Consulting Architect to the Government of Madras at his office aforesaid within days after the acceptance of his tender shall have been communicated to him and, upon such payment, the Secretary to the Government of Madras in the Public Works Department on behalf of the lessor, the Right Honourable the Secretary of State for India in Council, and the lessee shall execute a proper lease in duplicate of the property to the lessee but such lease shall be prepared by the Solicitor to the Government of Madras at the expense of the lessee who shall also bear the expense of the stamp duty on such lease and of having some registered.

3. Possession will be retained and the outgoings discharged by the lessor up to the date of the completion of the lease to the lessee and, as from that day, the outgoings shall be discharged and possession taken by the lessee and such outgoings shall, if necessary, be apportioned between the lessor and the lessee for the purpose of this condition. If from any cause whatever the remainder of the security money shall not be paid within days after the acceptance of the tender shall be communicated to the successful tenderer, or, if he shall fail to comply with the above conditions or any of them, his deposit shall thereupon be forfeited and the Right Honourable the Secretary of State for India in Council shall be at liberty to relet the property at such time in such manner and subject to such rent, terms and conditions as the

Government of Madras, on behalf of the Right Honourable the Secretary of State for India in Council, shall determine and any deficiency in rent which may happen on, and all expenses attending the re-letting shall immediately afterwards be paid by the defaulter to the Consulting Architect to the Government of Madras and, in case of non-payment, shall be recoverable by the Right Honourable the Secretary of State for India in Council as compensation for such breach of contract.

Schedule above referred to.

STATEMENT showing the size, weight, &c., of the stock materials at which they should be issued to Government under terms of lease.

Serial No.	Name of article.	Per	Rate. Rs. A. P.	Weight of each. LB. OZ.	Size.	Quantity required for 100 cubic feet.	Quantity required for 100 supl. feet.
	Patent kiln.						
1	Stock bricks, first sort	1,000	11 0 0	8 8	10″ × 5″ × 3″	1,200	..
2	Do. broken	,,	5 0 0	8 8	10″ × 5″ × 3″	1,200	..
3	Do. second sort	,,	6 8 0	8 8	10″ × 5″ × 3″	1,200	..
4	Clayton's press bricks	,,	13 0 0	9 0	10″ × 5″ × 3″	1,2 0	..
5	Do. special	,,	13 8 0	9 0	10″ × 5″ × 3″	1,200	..
6	Special country bricks	,,	6 8 0	5 0	8″ × 4″ × 2″	1,600	..
7	Do. second sort ..	,,	4 0 0	5 0	8″ × 4″ × 2″	1,600	..
8	Clinker bricks	C. ft.	6 0 0	9 0	10″ × 5″ × 3″	1,200	..
9	Clinkers (vitrified bricks)	100 c. ft.	0 0 6	..	..	100 c. ft.	..
10	Blue jelly (vitrified bricks broken) ..	1,000	5 8 0	..	..	,,	..
11	Fire bricks	Parah	60 0 0	7 8	9″ × 4½″ × 3″	1,200	..
12	Do. clay	1,000	1 0 0	..	..	..	..
13	Flooring tiles, pressed, 6 inches ..	,,	21 0 0	2 0	6″ × 6″ × ⅜″	..	425
14	Do. do. cracked.	,,	8 0 0	2 0	6″ × 6″ × ⅜″	..	420
15	Mangalore tiles, first sort	,,	55 0 0	5 0	1′ × 3″ × 8″	..	160
16	Do. second sort	Each	40 0 0	5 0	1′ × 3″ × 8″	..	160
17	Mangalore ridge tiles	,,	0 3 0	10 0	1′ 3″ r. ft.	..	..
18	Do. cracked	1,000	0 1 0	10 0	1′ 3″ ,,	..	..
19	Cottage-roofing tiles	Each	12 0 0	2 0	11″ × 4½″	..	1,100
20	Do. ridge tiles	Parah	0 2 0	12 0	1 ft in length	..	..
21	Fine surki	,,	0 5 0	..	..	..	..
22	Rough surki	Sq. ft.	0 4 0	..	..	..	..
23	Terracotta, different kinds ..	R. ft.	2 0 0	..	..	..	..
24	Earthenware pipes, 12 inches diameter ..	,,	0 12 0	100 0	2 ft. in length	..	..
25	Do. 9 do. ..	,,	0 8 0	75 0	,,	..	..
26	Do. 6 do. ..	,,	0 8 0	50 0	,,	..	..
27	Do. 4 do. ..	,,	0 6 0	25 0	,,	..	..
28	Burnt sheils	Parah	0 8 6	..	..	..	..
29	Slaked lime	,,	0 4 6	..	..	..	..
	Punjab kiln.						
30	Stock bricks, first sort	1,000	12 0 0	8 8	10″ × 5″ × 3″	1,200	..
31	Do. second sort	,,	6 8 0	8 8	10″ × 5″ × 3″	1,200	..
32	Clayton's press bricks	,,	14 0 0	9 0	10″ × 5″ × 3″	1,200	..
33	Do. special	,,	14 8 0	9 0	10″ × 5″ × 3″	1,200	..
34	Clayton's clinker bricks	,,	6 0 0	9 0	10″ × 5″ × 3″	1,200	..
35	Clinker's (vitrified bricks)	C. ft.	0 0 6	..	..	..	..

Consulting Architect to the Govt. of Madras.

Dated this day of 1896.

MADRAS, 1896.

To

THE CONSULTING ARCHITECT TO THE GOVERNMENT OF MADRAS.

SIR,

With reference to the notice, dated 189 , in the *Fort St. George Gazette* of the 189 , inviting tenders for the leasing for ten years of the Government Brickfields with the brick and lime kilns attached, together with the machinery and apparatus in use thereon, I hereby tender the annual sum of rupees (Rs.) as the rent I am willing to pay for such premises, and I agree to abide by the undermentioned conditions with reference to the leasing of the said premises if this my tender be accepted.

2. I forward herewith the sum of Rs. , being *25* per cent. of the amount of two years' rent at the rate above offered as required by the said notice.

Conditions.

1. The property shall be taken to be correctly described in the above-mentioned notice as to quantity, numbers and otherwise and will be let subject to the payment by me of municipal assessment and other taxes and, if any error, misstatement or omission in the above particulars be discovered the same shall not annul the contract to lease nor shall any compensation be allowed by the lessor in respect thereof.

3. I shall pay the remainder of my security money to you at your office at Chepâk, Madras, within days after the acceptance of my tender shall have been communicated to me, and, upon such payment the Secretary to the Government of Madras in the Public Works Department, on behalf of the lessor, the Right Honourable the Secretary of State for India in Council, and myself shall execute a proper lease in duplicate of the property to me, but such lease shall be prepared by the Solicitor to the Government of Madras at my expense, and I shall also bear the expense of the stamp duty on such lease and of having same registered.

4. Possession will be retained and the outgoings discharged by the lessor up to the date of the completion of the lease to me, and as from that day the outgoings shall be discharged and possession taken by me and such outgoings shall, if necessary, be apportioned between the lessor and me for the purpose of this condition. If from any cause whatever the remainder of the security money shall not be paid within days after the acceptance of my tender shall be communicated to me, or if I shall fail to comply with the above conditions or any of them, my deposit shall thereupon be forfeited and the Right Honourable the Secretary of State for India in Council shall be at liberty to re-let the property at such time in such manner and subject to such rent, terms and conditions as the Government of Madras, on behalf of the Right Honourable the Secretary of State for India in Council, shall determine and any deficiency in rent which may happen on, and all expenses attending the re-letting shall immediately afterwards be paid by me to the Consulting Architect to the Government of Madras and, in case of non-payment, shall be recoverable by the Right Honourable the Secretary of State for India in Council as compensation for such breach of contract.

Yours obediently,

ORDER—No. 2493 W., dated 27th August 1896.

Ordered that the Government of India be addressed.

[Here enter No. 2494 W., dated 27th August 1896.]

(True Extract.)

Under Secretary to Government.

To the Consulting Architect to Government.

Exd. C. M. Thumbuswamy.

GENERAL.
ACCOUNT.

Government {1896} of Madras.

PUBLIC WORKS.

Recd. } 1896. *Enclosures*

Regd. } *Spare copies*

Letter, No. 2494 W., 27th August 1896.

AUGUST.

Government Brickfields, Madras

Requesting sanction to the publication of a notice inviting tenders for the leasing from Government of the — with the Brick and Lime kilns attached, and to the subsequent execution of the lease.

1709

g/247

Con 6826

W Sent Minutes with Ander 25/8/96

2493 W

27-8-96

Secretariat.

The C.A. points out that under the rules in para 137, Chapter I, Vol I, P.W. Code, the proposal to lease the Govt. brickfields requires the sanction of the Govt. of India.

The point for consideration is whether the notice calling for tenders may be published at once, leaving the reference to India to be made in case any favourable tenders are received, or whether India should be addressed before any notice is published.

No. 2494 W., 27TH AUGUST 1896.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

THE HON'BLE COLONEL D. McNEIL CAMPBELL, R.E.,
Joint Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

I am directed to state that the Government has in operation in the town of Madras a brick and tile factory, with lime kilns attached, for the supply of building materials for public purposes. The outturn is of a quality superior to anything which can be obtained in the local market; and, judging by the frequent applications from private persons for the issue of materials from the Government factories, there would seem to be a demand for articles of good quality which private enterprise has hitherto been unable to meet.

2. With a view to the encouragement of such enterprise, and the production of good building materials not only for Government purposes but for private buildings also, His Excellency the Governor in Council considers that the Government factories might, under proper precautions, be leased out to some responsible person or firm.

3. The accompanying form of notice inviting tenders has accordingly been drawn up by the Government Solicitor under the directions of Government. It seems to contain all requisite provisions for a continuance of the supply of materials for public purposes by the lessee, and to provide proper guarantees as to quality and the punctual payment of rent.

4. The lease will, however, require the prior sanction of the Government of India under the Statutory rules contained in paragraph 137, Chapter I., Volume I., of the Public Works Code; the value of the property being over one lakh of rupees and the duration of the lease being over five years—*vide* clause III. of the rules. Attention is also invited to clauses IV. and V., the provisions of which may also perhaps be involved.

5. I am accordingly to request the sanction of His Excellency the Governor-General in Council to the publication of the notice, and the subsequent execution of the lease, modified, if necessary, in any way considered desirable by the Government of India.

I have the honour to be,

Sir,

Your most obedient servant,

Colonel, R.E.,
Joint Secretary to Government.

OOTACAMUND,
27th August 1896.

Exd. C. M. Thumbuswamy.

Govt Brickfields & Lime Kilns

No. 2493 W, dated 27th August 1896.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the Consulting Architect to Govt., No. 2225, d/27th July 1896.

Ordered that the Government of India be addressed.

The Constg. Architect.

(H. E. No. 2494 Wd/ 27-August 1896)

To

The Secretary to the
Government of India,
P.W. Department.

Sir,

I am directed to state that the Government has in operation in the town of Madras a brick and tile --- factory with lime kilns attached, for the supply of building materials for public purposes. The outturn is of a quality superior to anything which can be obtained in the local market; and, judging by the --- frequent applications from private persons for the issue of materials from the Government factories, there would seem to be a demand for articles of good quality which private enterprise has hitherto been unable to meet.

(40—4,000—2-11-95.)

2. With a view to the encouragement of such enterprise, and the -- production of good building materials not only for Government purposes but for private buildings also, His Excellency the Governor in -- Council considers that the Govt. factories might, under proper precautions, be leased out to some responsible person or firm.

3. The accompanying form of notice inviting tenders has accordingly been drawn up by the Government Solicitor under the directions of Government. It seems to contain all requisite provisions for a continuance of the supply of materials for public purposes by the lessee, and to provide proper guarantees as to --- quality, and the punctual payment of rent.

4. The lease will, however, require the prior sanction of the Govt. of India under the statutory rules -- contained in para 137, Chap. I, Vol I, of the P.W. Code, the value of the property being over one lakh of rupees, and the duration of the lease being over 5 years. vide clause III of the rules. Attention is also invited to clauses IV and V, the provisions of which may also perhaps be involved.

Issued 21/7/26

21 P

5. I am accordingly to request the sanction of His Excellency the --- Governor General in Council to the publication of the notice, and the subsequent execution of the lease, modified if necessary in any way considered desirable by the Government of India.

18/8/26

W.

Note.

The forms of notice and tender have been carefully examined and a few amendments as shown in pencil are suggested. It would be better to make the Consulting Architect the judge of the quality of materials and the Chief Engineer an appellate authority as now provided for. The deposit money should also be left with the Consulting Architect and not the Chief Engineer.

R.S.

18/8/26

No 2493-4 W, dated 27th August 1896

P. W. Department.

Read the following:—

Letter from the Consg Architect No 2225 dated 27th July 1896.

FOR ORDERS.

In consequence of the frequent applications which were being made to Government for the supply to private persons of bricks of good quality from a Govt brick factory, there seemed to be an opening for private enterprise in this direction and it was suggested by the Hon: Mr Bliss that inquiry should be made whether any firm at Madras was prepared to start a factory on improved principles; the Government withdrawing

I am disposed to view the proposal with favour. The papers should be circulated to Hon members.

DS 12/8/96

I think the rules require reference to the Govt. of India.

H.H 8.8.96

The Govt Solrs draft should be most carefully scanned before it is accepted — There have been cases lately in the R.D. in which losses prepared by firms for Salt Works have been found attributable to defective & the serious loss of Govt.

DS 10/8/96

43—500-27-4-94.

from brick manufacture on being satisfied that bricks of the quality and price now manufactured by the Consulting Architect would be supplied for public purposes.

2. A communication & was accordingly addressed to Messrs Arbuthnot and Co. in the first instance.

& No. 326C dt 18 January 1896.

3. On receipt of their reply, it was + decided to invite tenders for the leasing out to private enterprise of the Government Brickfields, with brick and lime kilns, and all machinery now in use. The Government Solicitor was instructed to draw up, in communication with the Consulting Architect, a form of advertisement based on the conditions laid down in Govt. No. 562W,

+ Govt. No. 562W dt 14 July 1896.

dated 14 February 1896.

4. In compliance with these orders, forms of notice and tender have been prepared, and are now submitted for orders.

5. It is pointed out in para 4 of the Consulting Architect's letter that, as the actual value of the property to be leased exceeds one lakh of Rupees, the sanction of the Government of India would be necessary to the lease under P. W. Code Volume I, Chap. I, para 137 (Statutory Rules) Clause 3.

6. Attention is also invited to clauses 4 & 5 of the rules which further restrict the powers of the Local Government.

7. It seems necessary that the sanction of the

Pink

FOR ORDERS.

Govt of India should be applied to before publication of the draft notice.

Lease of Govt Brickfields

1/8/96

W.

R.S.

No. 2493-4 W. dt. 27-8-96

2 A/P

Notice.

1. Tenders are invited for the leasing from Government, for a term of ten years, of the Government Brickfields, with the Brick and Lime Kilns attached, situate at Egmore Madras, together with the machinery and apparatus now in use thereon.

2. The Lessee will, during the term of his lease be required to supply to the Government of Madras at prices not exceeding the respective rates specified in the ~~underwritten~~ accompanying Schedule, such quantities of the articles therein mentioned as may from time to time be required for Government purposes and of such quality as shall be approved by the ~~Chief Engineer~~ Consulting Architect for the time being of the Public Works Department of the Government of Madras, whose decision as to the quality of any such articles shall be final and conclusive and altogether operative and binding upon the Lessee. An appeal will however be allowed to the Chief Engineer

3. The Lessee will be required to deposit with the ~~Chief Engineer~~ Consulting Architect aforesaid an amount equal to two years of the rent reserved by the Lease, as security for the punctual payment of the rent reserved thereby and for the proper up-keep of the works comprised

therein.

4. The lease will contain the usual provision that in case of non-payment of any rent reserved or the non-performance of any of the covenants by the Lessee therein contained, the - Lessor, the Right Honorable the Secretary of State for India in Council, shall be at liberty to enter upon any part of the demise premises in the name of the whole and that thereupon the term of ten years shall absolutely cease and determine.

5. The lease will be prepared, in duplicate, by the - Solicitor to the Government of Madras at, the expense of the - Lessee, who will also have to pay the stamp duty on both parts of the lease and the cost of having same registered.

The following is believed to be a correct description of the Land to be leased.....

Piece of land bearing Survey Nos. as described in the margin (H.S.No. excepted) situate on the - Poonamallee Road at Egmore in the Sub-Registration District of Mount Road, in the Registration District of Madras, bounded on the North - by the Poonamallee Road and lands and houses belonging to private

persons, on the South by the South Indian Railway line, on the East by wet land and a house and land belonging to Rajarathnam Naidoo and on the West by houses and lands belonging to Ellayalwar Naidoo and containing in the whole about 74 1/2 acres.

Note. The lease will not include the premises known as " T h e W a l l a j a h B a g h ".

The following is believed to be a correct description of the different branches of the Brickfields.....

Brick Manufacture.

There is one patent Hoffman's Kiln with 12 Chambers Capable of - burning (13) Thirteen thousand bricks (10″×5″×3″)per day, also one Panjab Kiln 375 feet long containing 15 Chambers, which also can - burn (13) Thirteen thousand bricks per day. There are also a num- -ber of temporary and permanent sheds sufficient to deliver the - quantity of raw bricks required daily. Most part of the clay is - pugged by 4 pug mills worked by a 12 horse power engine which are capable of pugging sufficient clay to mould from 15 to 20 thousand

bricks daily. There is also a tram-line with branches a mile long with 24 trucks for bringing the clay to the pug mills and for conveying it after it is pugged to the several moulding tables. This tramway is worked by bullock power for which 5 pairs of bullocks are kept on the Establishment.

There are also a large number of iron and wooden moulds sufficient to mould all the bricks required daily.

Terracottah Manufacture.

Consists of a number of cisterns for holding the washed and ground clays and for mixing them as also a large number of shallow cisterns for drying the clay. There are 5 large Vats for grinding clay, quartz and felspar, worked by the same engine that works the pug mills.

Tile Manufacture.

Consists of -

2 Hand power machines with dies complete for making Mangalore pattern tiles, and each can press about 1000 tiles daily.

2 Hand presses for flooring tiles with dies &c Complete capable of

turning out daily 1000 tiles .

1 Hand Minton tile press for pressing Minton or dry earth tiles -

which can turn out 500 tiles per day.

There are also a number of cisterns for washing and drying all the

clay required.

1 Hand Machine for pugging the washed clay and cutting it in slabs

for tile making.

There are 2 stone breakers for breaking up the clinker or vitrified

bricks into jelly, worked by the same 12 horse power engine that -

works the pug mills and Terracottah Vats.

L i m e K i l n s.

There are 6 kilns capable of turning out 500 Parahs of lime per day

and more if necessary, with tiled sheds for storing Charcoal & slaked

lime, as also platforms paved with bricks for slaking lime on and for

stacking Raw Shells.

There are two wells on the premises which supply all the water re -

-quired. The water is drawn from one of the wells by a series of -

buckets attached to a chain revolving on a cog-whell worked by bullock

p o w e r a n d f r o m t h e o t h e r w a t e r i s -

r a i s e d b y a p e c o t t a

The following is believed to be a correct List of the Machinery and utensils in use for brick-field operations with their respective values

Quanti-ty	Description of Machines	Rate	Per	Amount
2 Nos	Machine Tile making Clayton for pugging clay	300/	each	600
1 "	-Do- Pressing square Tiles	200/	"	200
3 "	Tile making pressing machine Europe converted into Mangalore Tile press	700/	"	2100
4 "	Brick pressing machine clayton 3 single and double	"	"	1549
1 "	Minton Tile press	946/	"	946
1 "	Mill grinding	100/	"	100
1 "	Scale Beam with chain and Platform to weigh 1 ton	25/	"	25
27 "	Weights Iron	"	"	193
1 "	Brick Testing Machine	"	"	500
1 "	Do Do Do	"	"	1000
1 "	Engine 12 Horse power	"	"	3000
2 "	Stone Breakers	250/	Each	500
5 "	Pugs for pugging Brick clay	100/	"	500
1 "	Do for Do Tile clay	300/	"	300
1 "	Saw bench with 3 circular saws	"	"	300
5 "	Vats complete for grinding clay	200/	"	1000
24 "	Trucks with about 1 mile of Tram line	"	"	4000
1 "	Screw gearing for drawing water	"	"	700
		Total	Rs	17513

The permanent buildings on the land are as follows

Measurements in feet & Nos			Descriptions	Remarks
Length	Breadth	No		
1	2	3	4	5
29-0	11-6	1	Watchman Shed	Brick in mud walls with Manga--lore Tile roof
113-9	30-6	2	Terracottah Moulding Shed and Office	Brick in mud walls with Palmyrah rafters and Pantiles
22-6	8 -6	3	Do Do Office Verandah	Palmyrah rafters & Mangalore Tiles
84-0	32-0	4	Vats Sheds for grinding clay	Walls brick in mud Trusses teak wood & Palmyrah rafters covered with pantiles
28-3	14-0	5	Stone Breaking Machine Shed	Terrace roof
26-3	20-9	6	Engine Shed	Walls brick in mud Roof covered with pantiles over palmyrah - rafters.
37-0	14-9	7	Pugging Shed	Casurina rafters covered with Mangalore tiles
33-0	55-0	8	Mangalore & Flooring Tile pressing Shed	Walls brick in mud Roof with - Pantiles & palmyrah rafters
53-0	31-3	9	Terracottah Moulding Shed	Do Do Do
48-0	24-6	10	Cuddapah slab shelves for drying bricks	Walls brick in mud covered over with Cuddapah slabs over which 3" concrete, well plastered. Inside fitted with Cuddapah slab shelves
48-0	21-9	11		
48-0	24-6	12		
48-0	24-6	13		
54-3	32-3	14	Sheds for stacking dried bricks	Walls brick in mud, roof with palmyrah rafters covered with Pantiles
54-9	32-6	15		
52-6	31-3	16		
52-3	31-6	17		
93-9	29-6	18	Watchman Shed and Tile drying shed	Do Do Do

Measurements in feet & Nos			Descriptions	Remarks
Length	Breadth	No		
1	2	3	4	5
37-9	26-6	19	Zinc roofed shedfor	Walls brick in mud, roof Zincsheets
37-9	13-0	20	drying bricks	over old iron rails
63-9	20-9	21	Shed for Pugging clay for tiles	Walls brick in mud, roof palmyrah rafters covered with pantiles
117-0	29-6	22	Shed for drying bricks	Do Do Do
49-6	12-0	23		
49-6	12-0	24		
49-6	12-0	25		
49-6	12-0	26	Sheds for drying bricks	Do Do Do
49-6	12-0	27		
49-6	12-0	28		
49-6	12-0	29		
61-6	10-9	30	Do Do	Do Do Do
61-6	10-9	31		
23-3	12-6	32	Watchman Shed	Do Do Do
403-0	16-0	33	Punjab Kiln	With iron Chimnies &c complete
364-0	12-0	34	Patent Kiln	Patent kiln with chimney &c complete
29-0	32-0	35	S t o r e	Brick in mortar with dome roof
16-0	11-0	36		
16-0	11-0	37	Latrines	Sundried brick in mud walls, stone
16-0	11-0	38		pillars, roof with teak rafters and
16-0	11-0	39		pantiles
89-9	30-3	40	Charcoal and lime Shed	Walls brick in mud, roof Palmyrah - rafters and pantiles
		a b c d	Six Chunam kilns with brick pavement	
36-0	35-0	41	Sub-Overseer's Bungalow	Brick in mud walls, roof palmyrah rafters covered with pantiles
48-0	44-0	42	Firemens Quarters	Do Do Do
		43	Pottery Kiln	
		44	Well	
		45	Do	

Measurements in feet & Nos			Descriptions	Remarks
Length	Breadth	No		
1	2	3	4	5
30-0	13-0	46		
16-0	17-6	47	Cisterns for drying	
14-0	8 -0	48	washed clay	
		49	Grinding Mill	Consists of two stone wheels with iron axle 3" Diameter and 15" - long revolving on - stone slabs
			All the other places not numbered are tem- -porary thatched sheds	

Sealed tenders accompanied by a deposit of 25 per cent of the amount of the security required as above should be sent to the Consulting - Architect to the Government of Madras at his office at Chepauk, Madras, by o'clock on the day of 1896

Sealed Tenders should be superscribed "Tenders for Leasing Government Brick-fields and Brick and Lime Kilns Madras"

Tenders will be opened by the Consulting Architect to the Government of Madras at his said office at o'clock on the day of 1896 in the presence of the tenderers or of such of - them as may choose to attend

The Government of Madras, on behalf of the Right Honorable the Secre- -tary of State for India inCouncil, does not bind itself to accept the highest or any tender

Printed forms of tender can be had on application to the Consulting Acrhitect to the Government of Madras who will on application furnish to intending tenderers all requisite information as to capital-cost - working-expenses and out-turn

Conditions

1. The property is believed and shall be taken to be correct-
-ly described as to quantity, numbers and otherwise and will be let
subject to payment by the Lessee of Municipal assessment and other
taxes and, if any error mis-statement or ommission in the above parti-
-culars be discovered, the same shall not annul the contract to lease
nor shall any compensation be allowed by the Lessor in respect there-
-of

2. The successful tenderer shall pay the remainder of his -
security money to the Consulting Architect to the Government of -
Madras at his office aforesaid within days after the accept
-ance of his tender shall have been communicated to him and, upon -
such payment, the Secretary to the Government of Madras in the Public
Works Department on behalf of the Lessor, the Right Honorable the -
Secretary of State for India in Council, and the Lessee shall execute
a proper lease in duplicate of the property to the Lessee but such
lease shall be prepared by the Solicitor to the Government of Madras
at the expense of the Lessee who shall also bear the expense of the
stamp duty on such lease and of having some registered

3. Possession will be retained and the outgoings discharged by the Lessor up to the date of the completion of the Lease to the Lessee and, as from that day, the outgoings shall be discharged and possession taken by the Lessee and such outgoings shall if necessary be apportioned between the Lessor and the Lessee for the purpose of this condition. If from any cause whatever the remainder of the security money shall not be paid within days after the acceptance of the tender shall be communicated to the successful tenderer, or, if he shall fail to compl with the above conditions or any of them, his deposit shall thereupon - be forfeited and the Right Honorable the Secretary of State for India - in Council shall be at liberty to relet the property at such time in - such manner and subject to such rent, terms and conditions as the Govern- -ment of Madras, on behalf of the Right Honorable the Secretary of State for India in Council, shall determine and any deficiency in rent which - may happen on, and all expenses attending the reletting shall immediate- -ly afterwards be paid by the defaulter to the Consulting Architect to the Government of Madras and, in case of non payment, shall be recoverable by the RightHonorable the Secretary of State for India in Council as -

compensation for such breach of contract.

SCHEDULE ABOVE REFERRED TO.

Statement showing the Size, Weight &c of the Stock Materials at which they should be issued to Government under terms of lease.

Number.	Name of Article	Per	Rate. Rs	A	P	Weight of each lb.	oz	Size.	Quantity required for 100 cub. feet	Quantity required for 100 supl. feet.
	Patent Kiln.									
1	Stock bricks, 1st sort	1000	11	0	0	8	8	10″ x 5″ x 3″	1,200	..
2	Do broken	"	5	0	0	8	8	10″ x 5″ x 3″	1,200	..
3	Do 2nd sort	"	6	8	0	8	8	10″ x 5″ x 3″	1,200	..
4	Claytons press bricks	"	13	0	0	9	0	10″ x 5″ x 3″	1,200	..
5	Do special	"	13	8	0	9	0	10″ x 5″ x 3″	1,200	..
6	Special country bricks	"	6	8	0	5	0	8″ x 4″ x 2″	1,600	..
7	Do do 2nd sort	"	4	0	0	5	0	8″ x 4″ x 2″	1,600	..
8	Clinker bricks	"	6	0	0	9	0	10″ x 5″ x 3″	1,200	..
9	Clinkers (vitrified bricks)	Cub-ft.	0	0	6	..		..	100 c.ft	..
10	Blue jelly (vitri-fied bricks broken)	100 c.ft	5	8	0	..		..	100 c.ft	..
11	Fire bricks	1000	60	0	0	7	8	9″ x 4½″ x 3″	1,200	..
12	Fire clay	Parah	1	0	0	..		..	..	..
13	Flooring tiles, pressed, 6″	1000	21	0	0	2	0	6″ x 6″ ¾″	..	425
14	Do cracked	"	8	0	0	2	0	6″ x 6″ x ¾″	..	420
15	Mangalore tiles, 1st sort	"	55	0	0	5	0	1′ x 3″ x 8″	..	160
16	Do 2nd sort	"	40	0	0	5	0	1′ x 3″ x 8″	..	160

Serial No.	Names of Article.	Per	Rate Rs	A	P	Weight lb	oz	Size	Quantity required for 100 cub feet	Quantity to be purchased for 1100 cub feet
	Patent Kiln									
17.	Mangalore ridge tiles	Each	0	3	0	10	0	1' 3" R.ft.	..	..
18	Do cracked	"	0	1	0	10	0	1' 3" R.ft	..	..
19	Cottage roofing tiles	1,000	12	0	0	2	0	11"× 4½"	..	1100
20	Do ridge tiles.	Each	0	2	0	12	0	1 ft in length	..	..
21	Fine surki.	Parah	0	5	0	..		..	..	..
22	Rough surki.	"	0	4	0	..		..	..	..
23	Terra cotta differ-ent kinds .	Sq ft.	2	0	0	..		..	..	..
24	Earthenware pipes, 12" diameter.	R ft.	0	12	0	100	0	2ft. in length	..	..
25	Do 9" do	"	0	8	0	75	0	Do	..	..
26	Do. 6" do	"	0	3	0	50	0	Do	..	..
27	Do 4" do	"	0	6	0	25	0	Do	..	..
28	Burnt shells	Parah	0	8	6	..		..	..	..
29	Slaked lime	"	0	4	6	..		..	..	..
	Punjab Kiln.									
30	Stock bricks 1st sort	1,000	12	0	0	8	8	10"× 5"× 3"	1,200	..
31	Do 2nd sort	"	6	8	0	8	8	10"× 5"× 3"	1,200	..
32	Claytons Press - bricks.	1,000	14	0	0	9	0	10"× 5"× 3"	1,200	..
33	Do special	"	14	8	"	9	0	10"× 5"× 3"	1,200	..
34	Do clinker bricks	"	6	0	"	9	0	10"× 5"× 3"	1,200	..
35	Clinkers (vitrified bricks)	Cub ft	0	0	6	..		..	..	..

Dated

1687

Dated this day of 1896.

Consulting Architect to the
Government of Madras.

Dis. 2
6826/98

No. 2493-94W, dt 27-8-96

1788

Madras, 1896.

To,

The Consulting Architect to the Government of Madras.

Sir,

W i t h reference to the notice dated 189 in the Fort St George Gazette of the 189 inviting tenders for the Leasing for ten years of the Government Brickfields with the Brick and Lime Kilns attached, together with the machinery and apparatus in - use thereon I hereby tender the annual sum of Rupees (Rs) as the rent I am willing to pay for such premises, and I agree to abide by the undermentioned conditions with reference to the leasing of the said premises if this my tender be accepted

2. I forward herewith the sum of Rs being 25 per cent of the amount of two years rent at the rate above offered as required - by the said notice

Conditions

1. T h e property shall be taken to be correctly described in the above mentioned notice as to quantity, numbers and otherwise and will be let subject to the payment by me of Municipal assessment and other - taxes and, if any error, misstatement or omission in the above particula

-rs be discovered the same shall not annul the contract to lease nor shall any compensation be allowed by the Lessor in respect thereof

3. I shall pay the remainder of my security money to you at your - Office at Chepauk Madras within days after the acceptance of my tender shall have been communicated to me, and, upon such payment the Secretary to the Government of Madras in the Public Works Depart--ment, on behalf of the Lessor, the Right Honorable the Secretary of - State for India in Council, and myself shall execute a proper Lease in duplicate of the property to me but such Lease shall be prepared by - the Solicitor to the Government of Madras at my expense, and I shall also bear the expense of the stamp duty on such lease and of having - same registered.

4. Possession will be retained and the outgoings discharged by the Lessor up to the date of the completion of the Lease to me, and as - from that day the outgoings shall be discharged and possession taken by me and such outgoings shall, if necessary, be apportioned between the Lessor and me for the purpose of this condition. If from any caus whatever the remainder of the security money shall not be paid within

1987

days after the acceptance of my tender shall be communicated to me, or if I shall fail to comply with the above conditions or any of them, my deposit shall thereupon be forfeited and the Right Honorable the Secretary of State for India in Council shall be at liberty to relet the property at such time in such manner and subject to such rent, terms and conditions as the Government of Madras, on behalf of the Right Honorable the Secretary of State for India in Council, shall determine and any deficiency in rent which may happen on, and all expenses attending the reletting shall, immediately afterwards, be paid by me to the Consulting Architect to the Government of Madras and, in case of non-payment, shall be recoverable by the Right Honorable the Secretary of State for India in Council as compensation for such breach of contract.

Yours Obediently,

A.
1. 500—20-3-96.

Office of the Consulting Architect to Govt.,
Chepauk, Madras.
27th July 1896.

No. 2225.

From

Lt: Colonel C. C. Rawson RE
Consulting Architect
to the Government of Madras.

To

The Chief Engineer
Public Works Department

Sir,

2 Enclosures.

In obedience to the orders contained in G.O. No. 562 W dated 14th February 1896, I have the honour to forward for consideration & orders, forms of notice & tender for the letting of the Government Brickfields &c received from the Government Solicitor

2 As it is usual for the Lessors Solicitor to prepare lease and for the Lessee to pay for it, the Government Solicitor states that provision has been made in the notice, that he shall prepare the Lease at the expense of the Lessee.

3. In formation as to the survey No. of the land to be leased out & for which blank space has been left in the form of notice will be filled in, on receipt of the same

Lands

937/1896

in complete form, from the Deputy Collector of Madras.

4. One or two points would appear to require consideration. The actual value of the property to be leased out exceeds one lakh of Rupees, and it appears to me that under P. W. Code Vol: I, Chapter I para 137 "Statutory Rules" clause iii, sanction of the Government of India to the lease is necessary

5. The lease in the present case is intended to endure for a period exceeding 5 years, and is not accompanied by any unconditional power of revocation by Government at any time during such period on the expiry of 6 months notice to that effect, and involves the cession of the rights of a property, the estimated value of which exceeds one lakh of rupees, I would also respectfully draw attention to clause IV & V of the above Rules

I have the honour to be
Sir
Your Most Obedient Servant
Clarence
27:2:96
Lt: Colonel RE
Ag: Consulting Architect
to Government

C. A. 7 500—9-6-96.

6826
P. W. CURRENT No. 6826

Encls 2
Recd: 25.7.98

From

THE CONSULTING ARCHITECT
TO THE GOVERNMENT OF MADRAS,

To

THE Chief Engineer
P. W. D

No. 2225

Dated 27th
Despatched July 1898.
Received

No. OF ENCLOSURES. 2.

Subject.

Forwarding for consideration & orders, forms of notice & tender for the letting of the Govt. Brickfields & receives from the Government Solicitor

No. 2880 C. dt 15-7-96
" 562-3. W, dt 14-2-96
" 326 C, dt 18-1-96
" 1393 C, dt 12-3-96
" 1545 C, dt 10-3-96
" 2026 W, dt 15-5-95
" 1507 W. dt 20-6-95
" 854 W, dt 5-4-95
" 802 W, dt 27-3-95
" 622 W, dt 14-3-95
" 405 W, dt 16-2-95
" 1241 C, dt 23-3-95
" 957 C, dt 12-3-95
" 161 C, dt 17-1-95
" 102 C, dt 19-1-95
" 437 W, dt 27-9-94
" 1445 W, dt 31-8-94
" 1918-19 W, dt 2-8-94
" 550 C, dt 26-10-92

No. 3076 W, D 29-11-94
" 2632 C, D 12-7-93
" 1817 C, D 21-4-93
" 812 W, D 24-3-93
" 495-6-7 W, D 24-2-93
" 311 W, D 7-2-93
" 3144 W, D 16-12-92
" 4477 C, D 18-10-92
" 2516 W, dt 9-9-92
" 303 W, D 25-1-88
" 4762 C, D 19-12-87
" 3216 W, dt 25-11-87
" 2379 W, dt 3-9-87
" 4264 C, dt 28-11-87
" 396 D, dt 25-7-87
" 313 D, D 7-7-87

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