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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. / B.P. No. 2122-W Press. / Mis.

Dated 11-9-1885 ~~198~~ .

S.G.

Not to be folded or roughly handled

Archives I--10,006 I -80.

58

11th September 1885, No. 2122 W., Public Works.

2122
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Erode, 14th August 1885, No. 329 E.W. :—

In G.O., No. 625 W., of 14th March 1885, sanction was given to two estimates for the manufacture of bricks at the Lake Brickfield, Ootacamund, classified as stock :—

	RS.		
1. Lands, kilns, sheds, &c. ...	12,000	Provincial	No. 275 W. of 1884-85.
2. Bench bricks	15,000	Do.	No. 276 W. of 1884-85.

2. Subsequently, at paragraph 17 of the notes of inspection of the Deputy Examiner, it was pointed out that it would be better to balance the accounts of the manufacture when the burning season ended; and that "it would also be better to sanction the estimate for the '*season*' and not for the *official year*, similar to a special and not an annual repair estimate."

3. I have therefore now the honor to submit for sanction revised estimates for the manufacture up to the cessation of work for the season.

	RS.
1. Lands, kilns, sheds, &c.	13,840
2. Bench bricks	24,000

4. As explained in the Executive Engineer's letter, No. 1122, of 22nd ultimo, of which a copy was sent you with my No. 314 of 28th ultimo, he has found it convenient to carry on burning until the large stock of firewood in hand was exhausted, which will be some time this month. He will then close both manufacture and accounts, and submit a report on the working.

5. I send also for information the reports of the Executive Engineer which accompanied the revised estimates. In his letter, No. 1222, of 30th ultimo, he explains that the difference of Rs. 1,840 is "for amount debited to manufacture on account of land and kilns," which the Examiner was of opinion should be shown under "Land and kilns." The revised estimate of Rs. 24,000 provides for the extension of the season's operations up to its close in the present month.

Order—dated 11th September 1885, No. 2122 W., Public Works.

The undermentioned revised estimates for manufacturing bricks at Lake Brickfield, Ootacamund, are sanctioned in supersession of the estimates sanctioned in G.O., No. 625 W., dated 14th March 1885 :—

	RS.
Lands, kilns, sheds, &c.	13,840
Bench bricks	24,000

2. The cause of excess in each case is duly explained in the Superintending Engineer's letter recorded above.

3. These sanctions have been registered as Provincial Nos. 122 and 123 W. of 1885-86, and classified as Stock.

4. The Superintending Engineer's attention is drawn to the Chief Engineer's circular No. 357 C., dated 15th February 1884, under which the estimate should have been submitted in duplicate.

5. The report promised on the results of working the brickfield will be awaited.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with three enclosures.
,, Examiner, Public Works Accounts, with copies of abstract estimates.

Exd. J. Henricus.
Spare Copies

2122/2

GENERAL.
ACCOUNT.

Govt. of (1885) Madras.

PUBLIC WORKS.

Dated September, 11th.

Recd. Encl.

G.O., 11th Sept. 1885, No. 2122 W.

SEPTEMBER.

Bricks

Revised estimates for manufacturing — at Lake Brickfield, Ootacamund, sanctioned.

No. 329
E.W.

Supg: Engineers office IV Circle
Camp Erode 14th August 1885.

2122/3

From,

The Superintending Engineer
Fourth Circle.

To,

The Chief Engineer,
Public Works Department.

Enclosures 5
2 Estimates
1 Comparative statement &
2 Copies of letters.

Sir,

In G.O. No. 625 W. of 14th March 1885, sanction was given to two estimates for the manufacture of bricks at the Lake Brickfield, Ootacamund, classified as stock:—

1. Land, Kilns sheds &c Rs 12,000 - Provl. No. 275W of 1884-85.
2. Bench Bricks —— Rs 15,000 —— Do. No. 276W of 1884-85.

2. Subsequently, at para 17 of the Notes of Inspection of the Deputy Examiner it was pointed out that it would be better to balance the accounts of the manufacture when the burning season ended; and that "it would also be better

to sanction the estimate for the "season" and not for the official year, similar to a special and not an annual repair estimate.

3. I have therefore now the honor to submit for sanction revised estimates for the manufacture up to the cessation of work for the season.

1. Land, kilns sheds &c. Rs 13,840.
2. Bench bricks ——— Rs 24,000.

4. As explained in the Executive Engineer's letter No. 1122 of 22d Ultimo, of which a copy was sent you with my No. 314 of 28th Ultimo, he has found it convenient to carry on burning until the large stock of firewood in hand was exhausted; which will be some time this month. He will then close both manufacture and accounts, and submit a report on the working.

5. I send also for information the reports of the Executive Engineer which accompanied the revised estimates. In his letter No. 1222 of 30th Ultimo he explains that the difference of Rs 1840 is "for amount debited to manufacture on account of land and kilns", which the Examiner was of opinion should be shown under "land and kilns".

The revised estimate of Rs 24,000 provides for the extension of the season's operations up to its close in the present month.

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

E. Beatty. Colonel R.E.
Supt'g: Engineer,
Fourth Circle.

JH

G.O. No 1895 W. 4.8.84
" " 2430 W. 2.10.84
" " 2562 W. 18.10.84
" " 575 W. 9.3.85
" " 953 W. 22.4.85
No 1345 C. 6.8.85
B. No 625 W. 14.3.85
No 357 C. 15.2.84
G.O. No 2691 W. 16.10.82.
" " 2478 W. 4.9.83
No 1879 C. 5.10.83
" 2 D. 3.1.84
" 57 C. 11.1.84
B. No 69 W. 10.1.84
G.O. No 70 W. 10.1.84
No 169 C. 23.1.84
B. No 329 W. 7.2.84
No 533 C. 5.3.84
G.O. No 906 W. 2.4.84
B. No 2839 W. 13.11.84
No 2117 C. 20.12.84
" 174 C. 28.1.85
" 410 D. 16.2.85
" 409 D. 16.2.85
G.O. No 545 W. 9.3.85

Nil 7221

(2)

From

The Supg. Engineer,
Fourth Circle.

Dated 14th }
Despd. 15th } Augt. 1885.
Recd 17

No. 329
E.W.

Enc: 5.

Manufacture of Bricks at Lake Brick Field Ootacamund.

Submitting 2 revised estimates for—.

C. 27-8-85 R. 11-9-85

Sanction—
CE
25.8.85

2122/5.

(2)

Public Works Department, 1885-86.

Current No. 7221
Letter No. 329 E.W.
Dated the 14th August 85
From the S.E. IVth Circle

NOTE OF REMARKS.

The following two revised estimates are for the manufacture of bricks at the lake brickfield at Ootacamund:—

(a) Land, kilns, sheds, &ca — Rs. 13,840;

(b) Bench bricks — Rs. 24,000.

The two original estimates were sanctioned in G.O. No. 625 W. of the 14th March/85.—The revised estimate (a) exceeds its original, Rs. 12,000, by Rs. 1,840; and the revised estimate (b) exceeds its original, Rs. 15,000, by Rs. 9,000.

2. In the case of the revised estimate (a) the excess, Rs. 1,840, which, it is stated, had formerly been debited "to manufacture on account of land and kilns" has been placed as now shown in compliance with C's opinion

the point is not clear.

3. In the case of the revised estimate (b) the excess, Rs 9,000, should, subject to approval, be met by a supplemental estimate as it is stated to be "due to development of operation." (See P.W. code para 1111) – But perhaps it is thought that circumstances by rendering it more convenient warrant the classification 'revised' being adopted. –

The comparative statement shows that it is intended under the revised estimate (b) to turn out 800,000 bricks or 300,000 bricks more than the number, 500,000 bricks, provided for in the original estimate.

28th August/85
J.S.H.

Mr S.E. explains that the object of the revision is to enable balancing the accounts of the manufacture when the burning season closes. Para 1111 is not therefore literally applicable in this case. – J.J.

6.27-8, 85 a-11-9-857

2122/6

Supg. Engineer's Office 4th Circle,
26th December 1883.

No. 584/W

From,
The Superintending Engineer,
Fourth Circle.

To,
The Chief Engineer
P.W. Department

Sir,

Enclosures 2
1 Estimate
1 Duplicate abstract Do
2

I have the honor to forward for sanction a Revised Estimate amounting to Rs. 12096 for the Manufacture of Bricks at the Lake Brick field Ootacamund.

2 The Original Estimate amounting to Rs: 10,080 was sanctioned in G.O. No. 2478 W. of 4th September 1883, as Provincial Register No. 107 W. of 1883-84, and the cause of excess of Rs 2016 is explained in the accompanying Comparative Statement.

3 A duplicate abstract Estimate (Revised) shewing the manufacture

by sub heads is also herewith sent.

I have the honor to be

Sir.

Your most Obedt. Servant

J. Beatty Colonel R.E.

Superintending Engineer

4th Circle

2122
7

GO 2478W - 4.9.83-

Dr. C.W. 11597

From
The Supg Engineer
Fourth Circle

No 69 W a/ 10-1-84

Dated 26 } December/83
Rd 28

No 584/W

Enclosures $\overset{4}{2}$

Manufacture of bricks

Forwards a revised estimate amounting to Rs 12096 for the — at the Lake brick field Ootacamund.

B/

$\frac{2122}{8}$ No 69 W PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 10th Jany/84.

READ the following

Letter from the Superintending Engineer, Fourth Circle } H. E. No 584/W d/ 26th Decr. 1883.

The revised estimate amounting to Rs 12,096, for the Manufacture of Bricks at the Lake brick fields, in the Nilgiri Division, during the current official year, is sanctioned, in supersession of that referred to in G.O. No 2478 W dated 4th September/83.

This sanction has been registered as Provincial No 199 W of ~~1884~~ 1883-84 and classified as stock - It cancels No 107 W. of 1883-84.

Jew 11/1/84

Cy

Wl 7.1.84

To

The Supg. Engr Fourth Circle with 3 enclosures 31/12

" Exr P. W. Accounts with duplicate abstract estte.

Cu

29/12

No. 69 Wa/10-1-84

[illegible] Sept 1911

2122/9

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 7th January 1884, No. 8 W.:—

I have the honor to recommend that the sanction of Rs. 6,580 for manufacturing bricks at Stonehouse, Ootacamund, given in G.O., No. 2478 W., of 4th September 1883, as Provincial No. 108 W. of 1883-84, may be cancelled, as the proposal to manufacture bricks departmentally at that place has been abandoned.

2. The manufacture has now been given out on contract, and the bricks, as manufactured, will be purchased by the department from the contractor and brought on stock until issued to work. It is, therefore, necessary to increase the reserve by about Rs. 2,500.

3. I have, therefore, the honor to request you will be good enough to obtain sanction to an increase of the reserve stock sanctioned in G.O., No. 2163 W., of 7th August 1883, from Rs. 15,000 to Rs. 17,500, as a temporary arrangement. As soon as the bakery or church at Wellington is sanctioned, the stock may be considerably reduced by writing off materials in hand to those works.

Order—dated 10th January 1884, No. 70 W., Public Works.

Provincial sanction No. 108 W. of 1883-84 is accordingly cancelled.

2. The proposal to increase the limit of reserve stock in the Nílgiri division to Rs. 17,500, as a temporary measure, is approved.

3. The Superintending Engineer will report on the terms of the contract which he has entered into for making bricks on Stonehouse Hill, and will take early steps to close the brickfield there, and to obliterate, so far as possible, the defacement of the hill-side.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.

Exd. A. Aubert.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated January, 10th.

Recd.

Encl.

G.O., 10th Jan. 1884, No. 70 W.

JANUARY.

Reserve Stock, Nilgiri Division

The limit of —, increased to Rs. 17,500, as a temporary measure, and the brickfield on Stonehouse Hill directed to be closed.

G.O. No. 69 W 7 10-1-84
G.O. No. 2478 W 4-9-83

No. 169 Cap 23rd Jany/84

Copy of the above forwarded to the S.E. IV Circle, who will furnish the Examiner, P.W. Accts with the required information.

CS
22-1-84

KEEP WITH Genl. No.

dated 18 .

DPW Cir 503 ✓

[Exr. Wks. Form No. 111.]

2122/10

GOVT. OF MADRAS. } 1884. { P. W. DEPT.

EXAMINER, P. W. ACCOUNTS.

Madras, January – 19th – 1884.

OFFICE NOTE No. 1100

To
W.

Encl: —

The revised Abstract of Estimate received with G.O. No. 69 W dated 10th. January 1884 shows only the proposed outlay by sub heads of operations on the Manufacture of Bricks at Lake Brick-field Ootacamund, but the material to be received as outturn has not been given, and I request the favor of being furnished with this information now.

DCE
C.

79/

No. 169 Cap 23-1-84

S.E. IV Circle ✓
Examr P.W.Ac ✓

DW 23/1

Ed 23/1

23/1

write order

Madras D. P. W.

No. 508 Executive Engineer's Office
Nilgiri Division
Ootacamund 29th January/84

2122/11

From,

The Executive Engineer
Nilgiri Division
Ootacamund

To,

The Superintending Engineer
Fourth Circle

Sir,

With reference to your endorsement No. 27/N.S. of 23d Instant on G. O. No. 70 W of 10th Idem, I have the honor to report that the terms of the contract for making bricks on Stone House Hill are:–

(1) that bricks should be 9" x 4½" x 2½" made out of earth pointed out on Stone House Hill by the Executive Engineer or his agent.

(2) that Rs 7½ to be paid per 1000 bricks supplied at the Kilns –

(good bricks well burnt)

(3) that 3 lakhs of bricks should be moulded and burnt by the 15th January 1884.

& (4) that for failure the Contractor to pay a penalty of Rs 10 for every day beyond the date fixed for completion of the Contract.

I have the honor &c

(Signed) J. C. Larminie
Executive Engineer.

(True copy)

L. Beatty - Colonel R.E.
Supg. Engineer IV circle

2122/12

Enclosure 1

In a Letter No: 56 of 4th February /84, from the Sup: Engineer 4th Circle.

Pr 1/1777/84

No: 56 / E.W.

Supg: Engineer's Office IV Circle
Coimbatore, 4th February 1884

From,

2122/13

The Superintending Engineer
IV Circle.

To,

The Chief Engineer
P. W. Depart:

Sir,

Enclosure 1
1 copy of report.

With reference to para 3 of Gy. O. No. 70 W of 10th Ultimo I have the honor to forward a report from the Executive Engineer on the terms of the present contract, and he has been instructed to stop brick-making as soon as the supply now contracted for is furnished.

I have the honor to be
Sir
Your most obt servt.

J. Beatty Colonel R.E.
Supg: Engineer IV Circle

[illegible]

From
The Supg. Engineer,
Fourth Circle.

No. 329 W a/7th Feby/84
B/

Recorded.

6.2.84

No. 329 W a/7th Feby/84
Dated 4th }
Despd 5th } February/84
Recd 6

No. 56
W.
Enc: 1

Making Bricks on Stone House Hill:—

Forwarding a report of the Executive Engineer Nilgiri Dn on the terms of the present contract for—

Entered in Receipt Regr

No. 533 Cd/5th March/84
Memorandum

2122/14

The S.E., IV Circle, is requested to submit a special report, after inspection, upon the results of recent operations in the various brickfields near Ootacamund, especially in that one recently opened below the Lake.

5-3-84

Despd 5/3/84.

No. 533 Cd/5-3-84

2122/15

F.C.

G.O. No. 906 W. 2-4-84.

No 533 Cal 5-3-84

2122/16

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

No. 92.

Read—the following letter from Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 28th September 1882, No. 413 :—

I have the honor to request that you will be so good as to obtain the sanction of Government for manufacture of reserve stock materials to the extent of Rs. 31,431, as per the undermentioned estimates submitted by the Executive Engineer, Nílgiri Division, who requires a large supply of bench bricks for execution of several works on the Hills :—

3 Estimates.
2 Specifications.
3 Reports and
1 Plan.

	RS.
I. For improvements to brick-fields at Kandal, Stonehouse Hill and Lovedale	30,557
II. For providing the necessary plant for brick manufacture at do. do.	723
III. Repairs, &c., to the plant in the brick-fields at do. do. ...	151
Total ...	31,431

I further request that the reserve limit of the division be raised to Rs. 6,000 in place of Rs. 2,000, fixed in G.O., No. 914 W. of 4th April 1881, as it is necessary on the Nílgiri Hills, where bricks can only be made in the months of December to April, to have a large stock in hand, there has been and will be this year considerable delay in the execution of work owing to there being no materials in hand. I need not point out that there are no materials in the public market.

No. 31.

Order—dated 16th October 1882, No. 2691 W., Public Works.

The undermentioned estimates amounting to Rs. 31,431, for the manufacture of reserve stock materials in the Nílgiri Division, are sanctioned and registered as shown below :—

	RS.				
(1.) Repairs to the plant in the brick-fields at Kandal, Stonehouse Hill and Lovedale	151	Register No.		134/1 W.	of 1882-83.
(2.) Improvements to brick-fields and burning bricks at do.	30,557	„	„	134/2 W.	„
(3.) Providing the necessary plant for brick manufacture at do.	723	„	„	134/3 W.	„

2. Under the circumstances stated by the Superintending Engineer, the limit of reserve stock in the Nílgiri Division is raised to Rs. 6,000 for a period of two years, after which the Superintending Engineer will report whether it is necessary to continue the higher limit.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Offg. Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle, with nine enclosures.
" Examiner, Public Works Accounts, with one enclosure.

Exd. S. T. Austin.
Spare Copies

2122/17.

GENERAL.
ACCOUNT.

Govt. of (1882) Madras.
PUBLIC WORKS.

Dated October, 16th.

Encl.

Recd.

G.O., 16th Oct. 1882, No. 2691 W.

OCTOBER.
Nos. 92-93.

Manufacture of Reserve Stock Materials in the Nilgiri Division.

Estimates, amounting to Rs. 31,431, *for the* —, sanctioned.

4TH SEPTEMBER 1883, No. 2478 W., PUBLIC WORKS.

2122
18

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Pálár Anicut, 24th August 1883, No. 344 E.W. :—

I have the honor to submit, for the sanction of Government, three estimates, amounting in the aggregate to Rs. 28,920, for the manufacture of stock materials at the following stations for the use of the Nílgiri Division in the current official year :—

3 Detailed Estimates.
3 Abstract do.
2 Reports.

		RS.
(1.)	Brick manufacture at the Lake brickfield	10,080
(2.)	Do. at Stonehouse	6,580
(3.)	Tile and brick manufacture at Wellington	12,260

2. The first two estimates were prepared for the balance of the articles not manufactured up to the 31st March 1883 out of those included in the estimate sanctioned in G.O., No. 2691 W., dated 16th October 1882, and the third for the probable quantity required for the works during the year 1883-84, as well as for a reserve to meet the case of any works that may be sanctioned hereafter.

ORDER—dated 4th September 1883, No. 2478 W., Public Works.

The following three estimates, aggregating to Rs. 28,920, for the manufacture of stock materials for use in the Nílgiri Division, are sanctioned and registered as shown below :—

		RS.		
(1.)	Manufacture of bricks at Lake brickfield	10,080	Provincial	No. 107 W. of 1883-84.
(2.)	Manufacture of bricks at Stonehouse	6,580	Do.	No. 108 W. of 1883-84.
(3.)	Manufacture of tiles and bricks at Wellington	12,260	Do.	No. 109 W. of 1883-84.

2. The manufacture during 1883-84 should be closed within the official year, and not tend to increase the reserve stock of the Nílgiri Division.

(True Extract.)

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle, with five Enclosures.
,, Examiner, Public Works Accounts, with three duplicate Abstract Estimates.

Exd. A. F. Goodall.

Spare Copies

GENERAL.
ACCOUNT.

Gobt. of {1883} Madras.

PUBLIC WORKS.

Dated September, 4th.

Recd.

Encl.

G.O., 4th Sept. 1883, No. 2478 W.

SEPTEMBER.

Stock Materials

Estimates for the manufacture of — for use in the Nilgiri Division, sanctioned.

G.O. 2478 W d/ 4-9-83

Dw. No. 8376

[Exr. Wks. Form No. 111.]

2122/19

GOVT. OF MADRAS } 1883. { P. W. DEPT.

EXAMINER, P. W. ACCOUNTS.

Madras, 27th September 1883.

Recd 28

OFFICE NOTE No. 661.

To No 1879 C d/ 5-10-83

W.

Encs: 3

The Abstract Estimates received with G.O. No. 2478 W. of 4th. September 1883 shew only the materials to be received after manufacture, while from Code paras 2140 to 2143 you will see that the proposed outlay on such manufacture by sub-heads of operations should also be given. I request the favor of being furnished with the latter information.

DC

C.

E.P.
27/9.

27/9

KEEP WITH Genl. No.

dated 18 .

No 1879 C d/ 5th Octr/83

C

Copy of the above forwarded to the S.E. Fourth Circle, who will furnish the Exr. P.W.A. with the requisite information

CJ.

1/10

S.E. Fourth Circle with 3 enclos.

Exr. P.W.A.

D.R.

5/10

Write Memo

Sub Engr Roads Divn

2122/20

1884.

P. W. DEPARTMENT.

Current No. 162

On

From

The Examiner P. W. ac

No 1055

Dated 9th January 1884

Received 10th "

SUBJECT.

Requests to return the abstracts of Estimates for the "Manufact of Bricks at Lake Brickfield and at Stonehmad" sent before by mistake

DISPOSAL.

No. 57 C Dated 11th January/84

Forwarded to the Supg: Engr. Fourth Circle for compliance with advertence his letter No 580 d/21st Decr 1883.

(By order)

(Signed) C Bowen Major R.E.

Dy Ch. Engineer P.W.D.

Desd.

12/1/84

Ent. [illegible] 1811

[illegible]

No 2 D of 3-1-84
" 1879 C of 5-10-83
No 2478 W of 4-9-

C.

to Exo. 69 W. 10-1-84.
to Exo. 70 W. 10-1-84

2122/21 1884.

P. W. DEPARTMENT.

Current No. 11541

From S. E. Fourth Circle

No 580
Dated 21-12-83
Received 26 – " – "

SUBJECT.

Forwarding abstract Estm for Bricks Manufacture, Wellington.

DISPOSAL.

No. 2 D Dated 3rd Jany 1884

Transferred to the Examiner, P.W. Accts with reference to his Office Note No: 661 of 27-9-83

Sd/ C. Bowen
D. W.

To C in original.

2 cm
4/1/84

1879 C of 5-10-83
G.O. 2478 W of 4-9-83.

7C

51 C 11.1.84

2nd April 1884, No. 906 W., Public Works.

2122/22

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers :—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Ootacamund, 12th March 1884, No. 147 E.W.

As directed in your memorandum, No. 553 C., of 5th instant, I have the honor to report on recent operations in the brickfields near Ootacamund. The brickfields in question are those at Lovedale, Stonehouse, Kandal and the Lake End.

2. *Lovedale Brickfield.*—No bricks have been made at Lovedale during the past twelve months. In May 1883, there were about 120,000 bricks in hand there, but these have all since been used up, except about 23,000. The disadvantage of making bricks there was the cost of cartage to works at Ootacamund. The bricks cost Rs. 14 a thousand on the spot, and Rs. 4 to 5 extra for cartage into Ootacamund.

3. The soil there is believed to be in no way superior to that at any of the other places where bricks have been made. There, as at Stonehouse, Kandal and Lake End, there are different kinds of clay. When brick-making was carried on there on a large scale, it was done under a European superintendent with a brick-making machine worked by a steam engine, and a special admixture of clays was adopted ; but there is no record of what that mixture was.

4. *Stonehouse Brickfield.*—About $3\frac{1}{4}$ lakhs of country (ground moulded) bricks, at Rs. 6 a thousand, were made at Stonehouse for public works during the past year. They were little, if at all, better than bazaar bricks. They were used for such works as peons' quarters, servants' lines, &c. Work was discontinued at end of January as all the bricks urgently wanted had been made, and it was the wish of the Chief Engineer that brick-making in that locality should be stopped as soon as possible.

5. *Kandal Brickfield.*—About a lakh of bricks were made in the old Kandal ground during the past twelve months, and have all been used up but about 20,000. They were bench bricks of a quality superior to ordinary country bricks. The manufacture of bricks there was stopped last July, and the principal reason for abandoning that ground was the want of a good site there for a Hoffmann's kiln, similar to the one at Madras, which it was at that time in contemplation to build, and for which land was purchased at Lake End.

6. *Lake End Brickfield.*—This was commenced with the intention of erecting a Hoffmann's kiln, but it was subsequently decided to work with a Bull's trench kiln and drying-sheds. The trench kiln is capable of holding 70,000 bricks, and the two drying-sheds will hold 20,000 each. It is expected that with the aid of the trench kiln and drying-sheds brick-making may be carried on throughout the year.

7. Operations at the new brickfield have been delayed: first, by bad weather, and, secondly, by frosts, which destroyed a large number of raw bricks in the sheds.

8. At this, as at the other brickfields about Ootacamund, there are a number of different clays, grey, red, yellow, &c., and in order to make good bricks it is necessary that the best mixtures should be ascertained and used, that all lumps should be crushed and that the clays used should be thoroughly mixed. It is found that this can only be done by the brick-making machine, which crushes all lumps, mixes and moulds. The ordinary pugging machines allow lumps of hard soil to pass through them, which are fatal to good brick-making.

9. But the brick-making machine requires 18 convicts to work it, 6 to each of the three arms; bullocks were a failure, as they could not be induced to pull together.

10. A trial is about to be made with horses, and if that does not succeed, a portable, 10 horse-power, double cylinder, steam engine is the only alternative. A steam engine would do well, but would probably be more expensive to use than horses. The little 6 horse-power engine from the Lawrence Asylum would evidently not be powerful enough to work the machine; and the Devala Mining Company has decided not to part with the engine they had lately intended to sell. So that, if it be eventually decided to get an engine, it will probably have to be ordered out from England.

11. The best bricks hitherto made at the new brickfield were those turned out by the machine. About two lakhs of raw bricks have been made there up to date, of which about 1,08,000 have been burnt and the bricks fit for use have been of a quality superior to ordinary country bricks, but still very inferior to what were in former years made at Lovedale and Kandal, and what, it is expected, will yet be made at the Lake brickfields when the best mixtures have been ascertained, and the machine can be worked.

Enclosure.

From J. C. LARMINIE, Esq., Executive Engineer, Nilgiri Division, to the Superintending Engineer, IV Circle, dated Ootacamund, 10th March 1884, No. 603.

In reply to your memorandum, No. 222 C., N.I., of the 8th instant, I have the honor to state that I think there is every prospect of my being able to make fair bricks at the Lake field. I doubt if it will ever be possible to make as good bricks here as are made at the Government brickfields, Madras, or those at the Railway works, Coimbatore (Pódanúr), for the simple reason that such good clay does not exist here.

2. But that by mixing various kinds of clay together good bricks can be made is proved by the bricks of which Government House is built; they were all made at Kandal under the supervision of a European overseer or maistry, Mr. Seager, who was employed for many years in this division (not on the permanent Public Works Department staff) specially for brick-making at the Lawrence Asylum and at Kandal, and it is to be greatly regretted that his services were dispensed with, when he took service under the municipality.

3. When I joined this division, contracts had been entered into for the manufacture of bricks at the Lawrence Asylum and at Kandal, the specification being that two kinds of clay, to be pointed out by the department, should be used; but the real fact was there was no one here then (in the department) who had had any experience of the different clays or of the proportions in which they should be mixed, so the result was an experiment. The bricks were made and have nearly all been used, but they could not be called good.

4. The experience gained indicated that probably a better brick could, with the imperfect means available for thoroughly incorporating various kinds of clay together, be made of a single kind of clay. This was accordingly tried at the Lake trench kiln and the result was a better brick than the contract bricks of Kandal.

5. About this time I came to know of Mr. Seager's connection with the departmental brick-making, and thinking his experience might be of use, I obtained his services for a week. He tried various mixtures of clay, and after a good deal of trouble in efforts to work the brick-making machine by bullocks, he succeeded in making a few rough but fairly sound bricks.

6. The same mixture of clays worked in the ordinary pug mills did not turn out nearly so well; in fact were inferior to the first trial kiln of one kind of clay, all owing no doubt to defective pugging and the absence of the crushing obtained by the rollers when the clays go through the brick-making machine.

7. I have now, in consequence, reverted to a very simple mixture, *i.e.*, the single clay first tried with a small portion of a stronger clay, and I propose to continue this until I am able to fairly start the brick-making machine.

8. Similar machines are, in England, worked by horses. As verbally explained, I cannot now obtain the portable engine from Pundalur, so I shall endeavour to make a trial with hired horses. Should it be successful, it will then be a question as to whether it will be more advantageous to purchase a pair of horses or a 10 horse-power, portable engine. The latter would cost in Bombay Rs. 3,900.

9. Probably a pair of horses sufficiently good might be picked up in Madras for Rs. 600 or 700. The cost of keep would be about Rs. 50 per month, which would be much cheaper than the cost of working an engine; but the engine would last for many years, and there is always the chance of horses falling sick, and of course a pair purchased cheap would not be young animals.

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 21st March 1884, No. 159 E.W.

1 Copy of letter, No. 603, of 10th March, from the Executive Engineer, Nilgiri division.

In reply to your memorandum of 11th January 1884, No. 47 C., I have the honor to state that the engine from the Lawrence Asylum was not moved to the Lake brickfield because it appeared from experience in working the brick-making machine that that engine would not be powerful enough and that it would be useless making the experiment; but if you wish it, it shall be done. The Lawrence Asylum engine is only 6 horse-power,* while the machine would probably need a 10 horse-power engine to work it efficiently.

* *Vide* paragraph 10 of my letter, No. 147 E.W., of 12th instant.

From the same officer, dated Coimbatore, 24th March 1884, No. 166 E.W.

In continuation of my letters, Nos. 147 and 159, of 12th and 21st instant, respectively, I have the honor to forward a further report in regard to working the brick-making machine and the necessity for purchasing a steam engine for use at the Lake brickfield, Ootacamund.

Enclosure.

From J. C. LARMINIE, Esq., Executive Engineer, Nilgiri Division, to the Superintending Engineer, IV Circle, dated Ootacamund, 19th March 1884, No. 616.

In continuation of my letter, No. 603, of 10th instant, I have the honor to state that, after further consideration of the question, I believe that, all things considered, it will, in the long run, be more satisfactory to at once procure a 10 horse-power, double cylinder, portable engine for the Lake brickfield. Such an engine, working for a couple of months, would, through the brick-machine, turn out enough bricks for an ordinary season's requirements, and it might then be used for any other work, *e.g.*, to drive a stone-crushing machine, which could, I should think, be most economically employed here now that Government are giving annual grants for the various ghât roads. I can hardly say that I have made a trial with horses. I procured a pair from Mr. Browne and, after some little difficulty, succeeded in getting them to work the brick-machine while empty. When first put in they plunged away, breaking the harness.

I was unable to continue the trial owing to the unsound and rotten state of the harness, which, after the brick-machine was loaded with clay, would not stand the strain. Mr. Browne cannot supply any other. Should it be thought worth-while making a more satisfactory trial, perhaps it would be possible to get the loan of a pair of artillery horses and their harness, which ought to be strong enough for the purpose. The only harness required in addition to head gear, would be the collars and traces.

ORDER—dated 2nd April 1884, No. 906 W., Public Works.

The Government regret to observe that the brick-making operations at Ootacamund have, so far, not proved very satisfactory. It is hoped that further efforts, under close supervision, will bring about some improvement in the quality of the bricks turned out.

2. It is suggested that Mr. Seager, who was so successful with the Lawrence Asylum and Kandal brickfields, should, with the concurrence of the President of the municipality under whom he is now employed, be induced to accept service in the Public Works Department, when his practical knowledge of brick-making at Ootacamund could be utilised.

3. The 6 horse-power engine at the Lawrence Asylum should be at once obtained, and used to the best advantage. Seeing that it is proposed to work the machine by means of *two* horses, it is not understood why a 6 horse-power engine should be considered inadequate. Further information on this point seems necessary. It should also be reported whether water-power cannot be utilised.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" General Superintendent, Public Works Stores.

Exd. E. Fernandez.
Spare Copies

2122/24

GENERAL.
ACCOUNT.

Govt. of 1884 Madras.

PUBLIC WORKS.

Dated April, 2nd.

Recd. *Encl.*

G.O., 2nd April 1884, No. 906 W.

APRIL.

Brick-making Operations at Ootacamund

Passing orders regarding the —

Read the following papers:—

No. 147/E. W.

Supdg. Engineer's Office, 4th Circle.
Camp Ootacamund, 12th March 1884.

2122/25.

From

The Superintending Engineer,
Fourth Circle.

To

The Chief Engineer,
P. W. Department.

Sir,

As directed in your Memo No: 553 C of 5th Instant, I have the honor to report on recent operations in the Brick fields near Ootacamund. The brickfields in question are those at Lovedale, Stonehouse, Kandal and the Lake end.

2. Lovedale Brickfield. No bricks have been made at Lovedale during the past twelve months. In May 1883, there were about 120,000 bricks in hand there, but these have all since been used up except about 23,000. The disadvantage of making bricks there was the cost of cartage to works at Ootacamund. The bricks cost 14 Rupees a thousand on the

spot and 4 to 5 rupees extra for cartage into Ooty.

3. The soil there is believed to be in no way superior to that at any of the other places where bricks have been made. There, as at Stonehouse, Kandal and Lake end, there are different kinds of clay. When brickmaking was carried on there on a large scale, it was done under a European Superintendent with a brickmaking machine worked by a steam engine, and a special admixture of clays was adopted; but there is no record of what that mixture was.

4. Stone House Brickfield. About 3¼ lakhs of Country (ground moulded) bricks at 6 Rupees a thousand were made at Stone House for public works during the past year. They were little, if at all better than bazaar bricks. They were used for such works as Peons' quarters, Servants' Lines, &ca; work was discontinued at end of January; as all the bricks urgently wanted had been made, and it was the wish of the Chief Engineer that

that brickmaking in that locality should be stopped as soon as possible.

5 Kandal Brickfield. About a lakh of bricks were made in the old Kandal ground during the past twelve months, and have all been used up, but about 20,000. They were hand bricks of a quality superior to ordinary country bricks. The manufacture of bricks there was stopped last July, and the principal reason for abandoning that ground was the want of a good site there for a Hoffmann's Kiln similar to the one at Madras, which it was at that time in contemplation to build, and for which land was purchased at Lake End.

6. Lake End Brickfield. This was commenced with the intention of erecting a Hoffmann's Kiln but it was subsequently decided to work with a Bull's Trench Kiln and Drying sheds. The Trench Kiln is capable of holding 70,000 bricks, and the two drying sheds will hold 21,000 each. It is expected that with the aid of the trench kiln and drying sheds

brickmaking may be, carried on throughout the year.

7. Operations at the new brickfield have been delayed: first, by bad weather; and secondly, by frosts, which destroyed a large number of raw bricks in the sheds.

8. At this, as at the other brickfields about Ootacamund, there are a number of different clays, grey, red, yellow, &ca, and in order to make good bricks it is necessary that the best mixtures should be ascertained and used, that all lumps should be crushed, and that the clays used should be ~~roughly~~ thoroughly mixed. It is found that this can only be done by the brickmaking machine, which crushes all lumps, mixes and moulds. The ordinary pugging machines allow lumps of hard soil to pass through them, which are fatal to good brickmaking.

9. But the brickmaking machine requires 18 convicts to work it, 6 to each of the three arms; bullocks were a failure, as they could not be induced to pull together.

10. A

10. A trial is about to be made with horses, and if that does not succeed, a steam engine is the only alternative. A portable 10 horse-power double cylinder steam engine would do well, but would probably be more expensive to use than horses. The little 6 horse-power engine from the Lawrence Asylum would evidently not be powerful enough to work the machine. And the Devala mining Company has decided not to part with the Engine they had lately intended to sell. So that, if it be eventually decided to get an Engine, it will probably have to be ordered out from England.

11. The best bricks hitherto made at the new brickfield were those turned out by the machine. About two lakhs of raw bricks have been made there up to date, of which about 1,08,000 have been burnt and the bricks fit for use have been of a quality superior to ordinary country bricks, but still very inferior to what were in former years made at Lovedale and Kandal,

and what it is expected will yet be made at the Lake Brickfield; when the best mixtures have been ascertained, and the machine can be worked.

I have the honor to be,

Sir,

Your most obedt. servant.

J. Beatty Col. R.E.

Supg. Engineer, 4th Circle.

[illegible] No 2347

From
The Supg. Engineer,
Fourth Circle.

Seen.
C.J.
15/3

To
The Chief Engineer,
P. W. D.

Dated 12th } March 1884.
Despd: 13th }

No: 147/E. W.

Enc: 1

Brick Fields, Ootacamund:—
Reporting upon the recent operations of the —.

~~Recorded.~~
24.3.84

Circ: 26/3/84

Executive Engineers Office
Nilgiri division
Ootacamund, 10th March 1884.

No. 603

From 272/2

The Executive Engineer
Nilgiri Division.

To

The Superintending Engineer,
Fourth Circle.

Sir,

In reply to your Memo No 2220/W.I. of the 8th instant, I have the honor to state that I think there is every prospect of my being able to make fair bricks at the Lake field. I doubt if it will ever be possible to make as good bricks here as are made at the Government brickfields Madras or those at the Railway works Coimbatore (Pothanore) for the simple reason that such good clay does not exist here.

2. But that by mixing various kinds of clay together, good bricks can be made, is proved by the bricks of which Government House is built; they were all made at Kandal under the supervision of a

European Overseer or Maistry, Mr: Seager who was employed for many years in this Division (not on the permanent P. W. D. Staff) specially for brickmaking at the Lawrence Asylum, and at Kandal, and it is to be greatly regretted that his services were dispensed with — When he took service under the municipality.

3. When I joined this Division Contracts had been entered into for the manufacture of bricks at the Lawrence Asylum and at Kandal, the specification being that two kinds of clay, to be pointed out by the Department, should be used; but the real fact was there was no one here then (in the Department) who had had any experience of the different clays or of the proportions in which they should be mixed, so the result was an experiment, the bricks were made and have nearly all been used, but they could not be called good.

4. ~~[illegible]~~ The experience gained indicated that probably a better brick —

could

could, with the imperfect means available for thoroughly incorporating various kinds of clay together, be made of a single kind of clay; this was accordingly tried at the lake trench kiln and the result was a — better brick than the Contract bricks of Kandal.

5. About this time, I came to know of Mr. Seager's connection with the Departmental brickmaking, and thinking his experience might be of use, I obtained his services for a week. He tried various mixtures of clay, and after a good deal of trouble in efforts to work the brick-making machine by bullocks, he succeeded in making a few rough but fairly sound bricks.

6. The same mixture of clays worked in the ordinary pug mills did not turn out nearly so well, in fact were inferior to the first trial kiln of one kind of clay all owing no doubt to defective pugging, and the absence of the crushing obtained by the rollers when the clays go through the

brick making machine.

7. I have now in consequence reverted to a very simple mixture i.e. the single clay first tried with a small proportion of a stronger clay, and I propose to continue this until I am able to fairly start the brickmaking machine.

8. Similar machines are in England worked by horses. As verbally explained I cannot now obtain the portable engine from Sundalur, so I shall endeavour to make a trial with hired horses; should it be successful, it will then be a question as to whether it will be more advantageous to purchase a pair of horses or a 10 Horsepower portable Engine. The latter would cost in Bombay Rs 3,400.

9. Probably a pair of horses sufficiently good might be picked up in Madras for Rs. 600 or 700. The cost of keep would be about Rs. 50 per month, which would be much cheaper than the cost of working an Engine.

But

But the Engine would last for many years, and there is always the chances of horses falling sick, and of course a pair purchased cheap would not be young animals.

I have &c.
(signed) J. C. Larminie
Executive Engineer.
(True copy)

J. Beatty Colonel, R.E.,
Dep. Engineer 4th circle.

2122
32

Encls: 1 to Supg. Engr's letter No $\frac{147}{C.W.1}$ d 12/3/84

From
The Ex: Engineer,
Nilgiri Dn.

To
The Supg. Engineer,
Fourth Circle.

Dated 10th } March 1884.
Despd. 11th }

No 603

Brick manufacture:-
Submits report on
— as requested.

Executive Engineer's Office
No 603. 222/3/84 . Nilgiri Division
Ootacamund 10th March 1884.

From.
The Executive Engineer
Nilgiri Division.

To.
The Superintending Engineer
4th Circle.

Sir,

In reply to your Memo No $\frac{222C}{N.D.}$ of the 8th instant, I have the honor to state that I think there is every prospect of my being able to make fair bricks at the Lake field. I doubt if it will ever be possible to make as good bricks here as are made at the Government brick fields Madras, or those at the Railway works Coimbatore (Pothanoor) for the simple reason that such good clay does not exist here.

2. But, that by mixing various kinds of clay together, good bricks can be made is proved by the bricks of which Government

House is built, they were all made at Kandal under the Supervision of a European Overseer or Maistry, Mr. Seager, who was employed for many years in this Divn. (not on the permanent P.W.D. Staff) specially for brick making at the Lawrence Asylum, and at Kandal and it is to be greatly regretted that his services were dispensed with when he took service under the Municipality.

3. When I joined this Division Contracts had been entered into for the manufacture of bricks at the Lawrence Asylum and at Kandal the specification being that two kinds of clay, to be pointed out by the Department, should be used, but the real fact was, there was no one here then, (in the Department) who had any experience of the different clays or of the proportions in which they should be mixed, so the result was an Experiment; the bricks were made and have nearly all been used; but they could not be called good.

4. The experience gained indicated that

that probably a better brick could; with the imperfect means available for thoroughly incorporating various kinds of clay together; be made of a single kind of clay; this was accordingly tried at the Lake trench kiln, and the result was a better brick, than the Contract bricks of Kandal.

5. About this time I came to know of Mr. Seager's connection with the departmental brick making, and thinking his experience might be of use, I obtained his services for a week. He tried various mixtures of clay & after a good deal of trouble, in efforts to work the brick-making machine, by bullocks, he succeeded in making a few rough but fairly sound bricks.

6. The same mixture of clays worked in the ordinary pug mills did not turn out nearly so well, in fact were inferior to the first trial kiln, of one kind of clay, all owing no doubt, to defective pugging and the absence of the crushing obtained by the rollers when the clays go through the

brickmaking

brick making machine.

7. I have now in consequence reverted to a very simple mixture i.e. the single clay first tried, with a small proportion of a stronger clay, and I propose to continue this until I am able to fairly start the brick making machine.

8. Similar machines are in England worked by horses. As verbally explained I cannot now obtain the portable Engine from Pandalur, so I shall endeavour to make a trial with hired horses; should it be successful it will then be a question, as to whether it will be more advantageous to purchase a pair of horses or a 10 H.P. Portable Engine the latter would cost in Bombay Rs 3900.

9. Probably a pair of horses sufficiently good might be picked up in Madras for Rs 600 or 700, the cost of keep would be about Rs 50 per month, which would be much cheaper than the cost of working an Engine. But the Engine would last for many years

years

2122/25

years - and there is always the chance of horses falling sick and of course a pair purchased cheap would not be young animals.

I have &c. &c.

Sgd J.C. Larminie

Ex Engr Nilgiri D.

(True Copy)

E. Beatty. Colonel R.E.

Superintending Engineer III Circle

This copy of a letter which was sent with my letter No. 147 of 12th inst, is forwarded for convenience of reference.

E.B.

21/3/84

Enc. No. 1

In a Letter No. 159 of 21st March /84 from the Sup. Engineer, 4th Circle

—

No. 159/E.W. 21/3/84

Supg. Engineer's Office 4th Circle.
Coimbatore, 21st March 1884.

From.
The Superintending Engineer
Fourth Circle.

To.
The Chief Engineer
P. W. Department
Madras.

Sir,

Enclosure 1
1 Copy of letter No. 603 of 10th March from the Ex. Engineer Nilgiri Division

In reply to your Memo of 11th January 1884, No. 47 C, I have the honor to state that the Engine from the Lawrence Asylum was not moved to the Lake Brickfield because it appeared from experience in working the brickmaking machine that that Engine would not be powerful enough and that it would be useless making the experiment; but if you wish it, it shall be done. The Lawrence Asylum Engine is only 6 horse+ power, while the machine would probably need a 10 horse power

+ Vide para 10 of my letter No. 147/E.W. of 12th instant
+C No. 2547 of 17-3-84

Engine to work it Efficiently.

I have the honor to be
Sir,
Your most obedient Servant.
L. Beatty Colonel R.E.
Superintending Engineer 4th Circle

Nth. 2637

From

The Supg. Engineer,
Fourth Circle.

SECRETARY TO ... P.W. DEPARTM...
24 MAR

Dated 21st }
Despd. 22nd } March 1884.

No. 159.
E.W.

Enc: 1

Engine from Lawrence Asylum:—

Reporting regarding the —.

Circ: 26/3/84

N 10

Supg. Engineer's Office 4th Circle.

No. 166
E.W.

Coimbatore, 24th March 1884.

From. 2122/38

The Superintending Engineer
4th Circle.

To.

The Chief Engineer
P.W. Department

Sir,

In continuation of my letters Nos. 147 and 159 of 12th and 21st instant respectively, I have the honor to forward a further report in regard to working the brick making machine and the necessity for purchasing a Steam Engine for use at the Lake Brickfield Ootacamund.

Ootacamund

I have the honor to be
Sir
Your most obedt. Servant.
J. Beatty Colonel R.E.
Supg Engineer 4th Circle.

2122
39.

No. 2448 W d/ 4.9.83.
" 1879 C d/ 5.10.83
" 2 D d/ 3.1.84.
" 57 C d/ 11.1.84
" 69 W d/ 10.1.84
" 70 W d/ 10.1.84
" 169 C d/ 23.1.84.
" 329 W d/ 7.2.84
" 533 C d/ 5.3.84

1741 W d/ 25.6.83.
1549 C d/ 17.8.83
441 E d/ 11.10.83
47 C d/ 11.1.84.

Fil. No. 2723

From

The Supg. Engineer,
Fourth Circle.

Dated 24th } March 1884.
Recpd: 25th }

No. 166
W.
Enc: 1

Brick Making Machine

Forwarding a further report in regard to working the —— and the necessity for purchasing a steam engine for use at the Lake Brick field, Ootacamund.

Circ: 26/3/84

212/40

Ootacamund.

No. 616. Executive Engineer's Office
19th March 1884.

From

The Executive Engineer
Nilgiri Division

To

The Superintending Engineer
Fourth Circle.

Sir,

In continuation of my letter No. 603 of 10th instant, I have the honor to state that after further consideration of the question, I believe that all things considered it will in the long run be more satisfactory to at once procure a 10 Horse Power, double cylinder, portable engine for the Lake Brick field. Such an engine working for a couple of months, working the Brick Machine, would turn out enough bricks for an ordinary season's requirements and it might then be used for any other work e.g. to drive a stone crushing machine, which could, I should think, be most economically employed here. Now that Government are giving annual grants for the various Ghat roads. I can hardly say that I have made a trial with horses. I procured a pair from Mr Browne and after some little difficulty, [illegible] getting them to work the Brock Machine when very empty, when first put in they plunged away, breaking the harness [illegible] I was unable to continue the trial owing to the [illegible] and rotten state of the harness, which, after the Brock Machine, was [illegible] with chains, we could not stand the strain; Mr Brown cannot supply any other: Should it be thought worth while making a more satisfactory trial perhaps it would be possible to get the loan of a pair of Artillery horses and their harness, which ought to be strong enough for the purpose. The only harness required in addition to head gear, would be the Collars and traces.

2122/41

I have &c &c

Signed J. C. Larminie.
Executive Engineer

(True copy)

L. Beatty Colonel R.E.
Supg Engineer 4th Circle

2122/42

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Letter from the S.E. IV Circle (H.E. No. 147 Ewd/ March 12. 1884)
Do do (" " 159 Ewd/ " 21 ")
Do do (" " 166 Ewd/ " 24 ")

1. The Govt. regret to observe that the brick-making operations at Ootacamund have, so far, not proved very satisfactory. It is hoped that further efforts, under close supervision, will bring about some improvement in the quality of the bricks turned out

But I don't quite understand if a pair of horses can work the brickmachine why a 6 H.P. engine is insufficient. Moreover it must be possible to utilize the abundant water power available. At Coonoor they propose to [illegible] machinery to all working by a turbine.

2. It is suggested that Mr. Seager, who was so successful with the Lawrence Asylum and Kandal Brickfields, should, with the concurrence of the President of the Municipality under whom he is now employed, be induced to accept service in the P.W. Dept, where his practical knowledge of brickmaking at Ootacamund could be utilised.

3. The 6 H. P. Engine at the Lawrence Asylum should be at once obtained, and used to the best advantage, until the [illegible]

2122/183

more powerful engine can be got out from home. An indent for a 10 H. P. Engine will be at once prepared by the General Superintendent P. W. Stores, who will be guided by the Executive Engineer Nilgiris as regards the class of engine to be applied for

26.3.84

proposed to work the machine by means of two horses, it is not understood why a 6 H. P. Engine should be considered inadequate. Further information on this point seems necessary. It should also be reported whether ~~the abundant~~ water power ~~available~~ can not be utilised.

1.4.84

S. E. IV Circle
Genl Supdt. P. W. Stores

RB

W

Cho: 2637

2122/44

The question for decision now is whether the 6 H.P. Engine at the Lawrence Asylum shall be tried at the Brickfields, or the new Engine purchased from the Consolidated Gold Mining Co: at a cost of Rs 2270. Vide S. E's letter No. 11 d/ 8 Jany. 84.

In reference to a former proposal, Govt. decided that an Engine recommended for purchase should be examined by a Workshop Foreman. No. 441 E d/ 11 Octr: 83.

R.S.
24. 3. 84.

To W.

I think it would be well to depute a Foreman mechanic to examine the Engine belonging to the Consolidated Gold Mining Co:, If his report is favorable, the engine might be purchased. The Lawrence asylum Engine is apparently not powerful enough.

C.S.
24-3-84

2122/5

Genl Sectt

~~The Hon. W. G. S~~

Second para of draft to be modified in accordance with remarks by Hon

To W

Please ex have modification of para 3.-
R.S.
31.3.84

31 Mar 84

Sam copied for the Pres
for
R.S. 31/3/84

Circ: 26/3/84 R 31/3/84

Has it not been reported more recently that the Co^s in question were not now willing to sell the engine?

See S.E.'s last Inspection Notes - or other recent letter from him.

24-3-84

Circ: 26/3/84 R 31/3/84

No. 906 W 2122/45 [illegible]

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the April [illegible]

Read the following

Letter from the S.E. IV Circle (H.E. No. 147 E.W. of March 12. 1884)
do do (" " 159 E.W. of " 21. ")
do do (" " 166 E.W. of " 24. ")

1. The Govt. regret to observe that the brick-making operations at Ootacamund have, so far, not proved very satisfactory. It is hoped that further efforts, under close supervision will bring about some improvement in the quality of the bricks turned out.

2. It is suggested that Mr. Seager, who was so successful with the Lawrence Asylum and Randal Brick fields, should, with the Concurrence of the President of the Municipality under whom he is now employed, be induced to accept service in the P.W. Dept, when his practical knowledge of brickmaking at Ootacamund could be utilised.

3. The 6 H.P. Engine at the Lawrence Asylum should be at once obtained, and used to the best advantage. Seeing that it is proposed to work the Machine by means of two horses, it is not understood why a 6 H.P. Engine should be considered inadequate. Further information on this point seems necessary. It should also be reported whether water power can not be utilised.

2122
46

CY.
2-4-84

1514

S. E. IV Circle
Genl. Supt. P.W. Stores.

2122
47

2723 [illegible]

Govt. of (1883) Madras.

PUBLIC WORKS

3/4

Date

Recd. Ent.

G.O. D April 4/ 1884 No. 916 X

Nos.

Brick-making operations at Ootacamund

Passing orders Regarding the

45/4

C.S.E. 2/4

[illegible] 2/4

1884 2122/44

P. W. DEPARTMENT.

Current No. 9182

From The Supg. Engr. IV Cir.

Enclos.—2

No. 479/G.W.

Dated 28-10-84

Received 5-11-8

Subject.

Requests to obtain sanction for rent free occupation of a portion of a Mill House at Ooty by Mr. Mallane, superintendent, Lake Brickfield, Ootacamund

Disposal.

No. 19792 Dated 6th November

To C.E. For remarks

D.W

Genl.

PUBLIC WORKS DEPARTMENT.

Genl

PUBLIC WORKS DEPARTMENT.

202/49

No. 2122 W

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 11th Septr/85

READ the following

From the Suptg. Engineer IV Circle - H. E. No: 329/E. W. d/ 14th August 1885

The undermentioned revised estimates for manufacturing bricks at Lake brick field, Ootacamund, are sanctioned in supersession of the estimates sanctioned in G. O. No. 625 W dated 14th March 1885: —

Lands, kilns, sheds, &ca	Rs 13,840
Bench bricks	Rs 24,000

2. The cause of excess in each case is duly explained in the Superintending Engineer's letter recorded above.

3. These sanctions have been registered as Provincial Nos: 122 and 123 W of 1885-86, and classified as Stock.

4. The Superintending Engineer's

attention is drawn to the Chief Engineer's Circular No: 357 C dated 15th February 1884, under which the estimate should have been submitted in duplicate.

26.8.85

5. The report promised on the results of working the brickfield will be awaited.

5.9.85

(2)

7 - 8514/11/9/85

11/9

17/9

To
The Suptg. Engr. IV Circle
with 3 enclos.
" Examiner, P. W. Accts
with copies of abstract estimate

21/8

D. 27.8.85 R. 11.9.85

21/11.

2122/50

7221

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated 17/9/85

Recd. Encl.

G.O., 11 Sep 1885, No. 2122

Bricks

~~Sd~~ Revised Est. for manufacturing at Lake Brickfield, Ootacamund, Sanctioned

No. 1219