

(1) Number of pages _____

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(3) Initials of the Referencer _____

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

G.O. No. 2571	Press
413-414	~~Mis~~
Dated 28. 10. 1870.	

Not to be folded or roughly handled*T. M. S.*

*Proceedings of the Madras Government, Public Works Department,
28th October 1870.*

No. 413. Read the following letter from the Acting Superintending Engineer, 5th Division, to the Secretary to Government, Public Works Department, dated Cuddalore, 13th October 1870, No. 148 :—

With reference to G. O., No. 927 of the 23rd March 1868, and No. 118 of the 18th March 1870, I have the honour to forward, for the sanction of Government, an estimate of Rupees 2,643, accompanied by a plan and specification, for

One Plan.
,, Estimate Rupees 2,643.
,, Specification.
,, Statement of objections.

works required for fitting up the high pressure engine to work the mill at the Bakery at Bangalore.

2. Provision is made in the estimate for an additional chimney and a flue at a cost of Rupees 1,590, agreeably to the proposal of the Commissariat Department, who strongly object to the construction of a flue to the present chimney, as will be observed from the accompanying statement of their objections. As the cost of an additional chimney exceeds by only Rupees 390 that of a flue to the existing chimney, it appears advisable to adopt the proposal of the Commissariat Department.

3. The remainder of the estimate, Rupees 955, is for fixing boiler, engine, etc. This sum includes also the amount of the estimate (Rupees 322-6-10, or in round numbers Rupees 323) submitted by the Commissariat Department and received with G. O., No. 74, of the 8th April 1870. This part of the work is to be carried out under the superintendence of the Mechanical Engineer employed by the Commissariat authorities, the materials and labour being provided by this Department.

4. In G. O., No. 1,136, of the 29th April 1870, Rupees 3,000 were allotted for the Bakery, and the cost of the works now proposed can be met from that amount.

No. 414. ORDER THEREON, 28th October 1870, No. 2,571.

MILITARY WORKS, No. 16.

THE Government sanction the estimate of Rupees 2,643 for fitting up the high pressure engine to work the mill at the Bakery at Bangalore.

2. Funds will be provided from the source indicated in paragraph 4.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Superintending Engineer, 5th Division.

,, Controller of Public Works Accounts.
,, Military Department.

N^o 148

Superintending Engineer's Office, 5th Divⁿ,
Cuddalore, 13th October 1870

From,

The Acting Superintending Engineer,
5th Division.

To,

The Secretary to Government,
P. W. Department,
Madras.

Enclosures 4.

Sir;

1. Plan

1. Estimate N^o 2,643.

1. Specification

1. Statement of
objections.

With reference to G. O. N^o 927 of
the 23rd March 1868 and N^o 118 of the 18th March
1870, I have the honor to forward, for the
sanction of Government, an estimate of Rupees
2,643-0-0, accompanied by a plan and
specification, for works required for fitting
up the high pressure Engine to work the
Mill at the Bakery at Bangalore.

2. Provision is made in the estimate
for an additional Chimney and a Flue
at a cost of Rupees 1,590-0-0, agreeably to the
proposal of the Commissariat Department
who strongly object to the construction of a
flue to the present Chimney, as will be
observed from the accompanying statement
of

of their objections. As the cost of an additional chimney exceeds by only Rs 390 that of a flue to the existing chimney, it appears advisable to adopt the proposal of the Commissariat Department.

3 The remainder of the estimate Rs 955-0-0, is for fixing boiler, Engine, &c. This sum includes also the amount of the estimate (Rs 322.6-10 or in round numbers Rs 323) submitted by the Commissariat Department and received with G. O. No 14 of the 8th April 1870. This part of the work is to be carried out under the superintendence of the Mechanical Engineer employed by the Commissariat authorities, the materials and labor being provided by this Department.

4. In G. O. No 1136 of the 29th April 1870, Rs 3,000 were allotted for the Bakery and the cost of the works now proposed can be met from that amount.

I have the honor to be
Sir,

Your Most Obedient Servant.

Rich^d J. Roberts. Capt. R. E.
Acty. Sub. Engr. 5th Div.

1870 Sept 10
The Secy. to Govt. of India
The Secy. to Govt. of India

(8) 5th Division.

The Secretary, Government,
P. W. Department,
Madras.

Dated 13th October 1870.
Recd: 15th

13. 148

Enclosed 4.

Bakery at Bangalore.

Forwarding for sanction an
estimate of Rs 2645 for
works required for fitting up
the high pressure engine to
work the Mill at the
Government Bakery at
Bangalore.

No 2571-28 Oct 1870.

No 413

614 Oct 17/70 P. W. D.

Military.

Fifth Division D. P. W.

New Work.

Bangalore.

Abstract - Estimate of 1870-71.

Work. Building a Chimney and flue also fixing Boiler Engine
Wall Box &c and of materials and labour required for fixing
grinding apparatus &c to the Engine at the Bakery.

Quantity or Number	Description of Work	Rate Per	Amount Total
<u>Chimney.</u>			
2430	Cubft. of Excavation	" " 1 Cft.	13
486	do of Concrete work	" 2 6 do	76
1094	do of foundation Stone in chum	" 2 6 do	171
1634	do of Brick in chumam	" 6 3 do	538
97	Running ft. of Cornice work	" 8 " Aft.	49
12 ⁸⁵ / ₁₀₀	Squares of pointing with cement putty	4 " " Sg. p. ss.	51
70	Running ft. of lightning Conductor	1 8 " Aft.	105
30	do of Iron rods to be attached to the end of Conductors	" 6 " do	11
75	Cubft. of Excavation for trench	" " 1 Cft.	1
75	do of Filling in trench with gravel and charcoal	" 2 " do	9
4	Running ft. of Copper rod Conductors	2 8 " Aft.	10
140	do of 1 1/4 inch iron rods to be fixed in the interior of Chimney	" 8 " do	70
<u>Flue.</u>			
188 ¹⁵ / ₃₂	Cubft. of Excavation	" " 1 Cft.	10
1174	do of Foundation Stone in chum	" 2 6 do	183
225	do of Brick in chumam	" 2 9 do	39
Carried forward			1436

Brought forward			1436
285	Cubft of Arch work	" 4 Cft	71
2 $\frac{47}{100}$	Squares of plastering	28 Sqr	6
			1513
	Sundries		77
	Total Rupees		1590

Fixing Boiler Engine bed			
510	Cubft of Concrete	" 26 Cft	79 11
153	do of Brick in chumam	" 29 do	26 49
331 $\frac{1}{2}$	do of Fire brick in clay	" 8 do	165 12
49	Squares of Stone to furnace stage	10 Sqr	4 14 4
40 $\frac{1}{2}$	Sqrft of Paving steps	" 5 Sqr	12 10 6
89 $\frac{1}{2}$	Cubft of Brick in chumam	" 29 Cft	15 6 1
1.76	Squares of Flooring	8 Sqr	14 1 3
112	Cubft of Removing old foundation	" 3 Cft	1 12
112	do of Brick in chumam	" 29 do	19 4
32	Stones for Steps	" 8 Cft	16
38	Squares of Plastering fly wheel pit	1 Sqr	2 6 3
	Removing old bed stone and fixing new bed stone	20 E	20
1	Stone for Engine bed $15\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{4}$ including dressing and boring holes		270
382	Cubft of filling in earth	" 2	3 15 8

	Sundries		652 1 10
	Total Rupees		32 14 2

Materials and labour for
fixing Engine

2	Pieces of Jungle wood for hand spikes 10 ft long each	12 E	1 8
	Carried forward		1 8 2275

Brought forward			1 8 2275
10	Tub of bolt Iron for Crowbar		9
	$1\frac{1}{2}$ diameter	" 6 ft	3 12
100	lbs of Iron	" "	6
25	lbs of Cast steel 1" square		6
300	lbs of Coals		4
50	Scoops of paddy husk		4
9	lbs of read lead		1 14
18	lbs of white lead		4 4
1	Gallon linsud oil		3
6	lbs of Country oakum		1 2
10	Sut square of sheet lead $\frac{1}{8}$ thick		10
25	Yards of English rope 2" diameter		30
1	Ratchet Brace large with bills		9 14
1	Handling vice		18 10
1	Gross 3" screws		2 4
1	do 2 do		1 8
1	do $1\frac{1}{2}$ do		1 6
3	do 1 do		10
1	do $\frac{3}{4}$ do		8
3	lbs of Coconut oil		9
9	lbs of lamp oil		1 4
12	lbs of tallow		2
$\frac{1}{2}$	Bullock hide country		4 8
6	Pair of hinges Common		10 6
1	lbs of Hemp twine English		10
1	Pair of Country Bellows		4 8
2	English hand hammers 2 lbs each		1 14
6	Files of Sizes		4 8
3	Sheets of Iron $4 \times \frac{1}{2} \times \frac{1}{8}$		9
1	Well to be sunk 20 feet deep 4 ft diameter for blowing steam into boiler		50
			185 15 6 2275

	Brought forward	185	156	2275
60	Carpenters		45	"
45	Black smiths		33	12
45	Hammer men		11	4
45	Bellows boys		5	10
10	Coolies for 20 days each		50	"
	Contingent expenses		30	"
	Sundries		6	66
	Total Rupees			368

Total Amount of Estimate Rupees 2643

Executive Engineer's Office
Bangalore 28th September
1870 } /Signed/ H. W. Wood Captain A.C.
Executive Engineer,
Bangalore.

Richd. J. Roberts Captain A.C.
Ag. Superintending Engineer 5th Bn }

Fifth Division D. P. W.
Bangalore.

8774104/30
Abstract Estimate for
Building a Chimney and
flue also fixing boiler Engine
Wall box & and of materials
and labour required for
fixing grinding apparatus
to the Engine at the Bakery

Amount of Estimate Rs: 2643

Reasons for requiring a separate chimney
for the machinery at Bakery.

1st The present chimney has already 11 flues from the bakery ovens, objected that when those ovens are not worked, extra fuel would be required at the machinery oven, to create a draught, if the flue led into the same chimney.

2nd Objected to have the flue from the machinery oven above ground to the present chimney as that arrangement would cut off communication to the rear, in a very inconvenient manner. —

3rd The length of flue required from the machinery room to the present chimney would be difficult to clean.

4th If the flue, was taken, underground
to the present chimney, it is believed that
it would be damp, and difficult to repair,
which would be very unsatisfactory.

Post Office B. B. B.
Bangalore
17. November 1868

J. Muhlenberg Lieutenant Colonel
J. A. General

Proceedings of the Madras Government
 No. 2571
 Order date the 28th Oct/70

Read the following

From the S. Engr. 5th Div. (H.R. No. 148.7/13 Oct/70.

The Government
 sanction the estimate
 of Rs. 2643 for getting
 up the high pressure
 Engine to work the mill
 at the Bakery at Bangalore.

Funds will be pro-
 vided from the source
 indicated in para 4-

39
 4

To The S. Engr. 5th Div. in the office
 " Contr. Secy
 " Secy. Depo. Secy

Recd 31/10/70

Recd 31/10/70
 Secy. Depo. Secy

Op 6104
Govt. of (1870) Madras.

PUBLIC WORKS.

To The Asst. Superintending Eng^r
S^t. Division

Dated

Recd.

1873

G. O. 28th Oct. 1870 No. 2571.

No. 1115 & 1116.

Bakery at Bangalore. The
estimate No. 2643 for fitting
up the high pressure engine to
work the mill at the Bakery
at Bangalore, sanctioned.
28th