GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

READ—the following papers :—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Ootacamund, 30th December 1883, No. 594 W.

I have the honor to submit, herewith, a fresh revised estimate for the Wellington bakery, as directed in G.O., No. 2663 W.,* of 22nd September 1883. The cost of the building has been reduced from Rs. 60,560 to Rs. 26,360 by omitting the machinery, stores, servants' quarters, and provision for unforeseen additions.

3 Plans.	1 Abstract estimate in duplicate.
1 Site plan.	1 Report.
3 Estimates.	

* G.O., dated 5th October 1883, No. 5401, Military.

2. The present estimate includes an item of Rs. 13,000 for three ovens, which may be reduced to Rs. 10,000, if two ovens are considered sufficient.

No. 100 C., Public Works.

Submitted for the approval of His Excellency the Commander-in-Chief, and of Government in the Military Department.

(By Order.)

(Signed) C. BOWEN, Major, R.E.,
Deputy Chief Engineer, P.W.D.

15th January 1884.

No. 260, Military.

Referred for the approval of His Excellency the Commander-in-Chief.

FORT ST. GEORGE,
17th January 1884.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Officiating Secretary to Government.

To the Quartermaster-General, who is requested to pass the papers on for the approval of the Commissary-General, should His Excellency first approve them.

From Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Fort Saint George, 4th February 1884, No. 683 :—

In returning the plans and estimates, amounting to Rs. 26,360, for a bakery at Wellington, received under reference order, No. 260, dated 17th January 1884, I am desired to say that His Excellency the Commander-in-Chief agrees generally in the opinions expressed by the Commissary-General in his letter † on the subject, enclosed, and considers that it should be possible to provide a bakery, to meet all requirements at Wellington, at a cost considerably less than that contemplated in the estimates in question.

† No. 6484, dated 1st instant.

ENCLOSURE.

From Colonel B. H. W. MAGRATH, Commissary-General, Madras, to the Quartermaster-General, dated Madras, 1st February 1884, No. 6484.

I have the honor to return plans and estimate, for a bakery, received under your docket, No. 779/399, of 23rd January 1884.

2. I would submit, for the consideration of His Excellency the Commander-in-Chief, that the plans are unsuitable and incomplete; they are the same which were sent, for my opinion, on the 5th October, except that the machinery, &c., stores, servants' lines, and "unforeseen addition" have been excluded from the estimate.

3. With water-power close at hand, which could be utilized for both grinding and sifting the wheat as also for kneading the flour, no provision has been made for the erection of a water-wheel.

4. There is no suitable accommodation for storing wheat or cleaning it; none for storing flour and soojee, and none for storing firewood.

5. The bakery should be all under one roof and should have only one door leading into it.

6. Again, if no machinery of any kind is to be used, the upper-story would add much to the labor of preparing flour without any corresponding advantage.

7. The boiler-room and engine-room, which the Executive Engineer suggests retaining, are too small to be of any practical use if only manual labor is employed.

8. The ovens are too large. 12 feet by 10 feet, the same size as those in the Bangalore bakery, would be more convenient.

9. It is possible there may be some practical objection to using water-power for the purpose of grinding, bolting and kneading the flour. In this case, I would suggest that application be made to the Ordnance Department for an 8 horse-power vertical engine which, I understand, can be spared from the Gun Carriage Factory; the shafting, &c., would not cost more than Rs. 1,500, leaving only the grinding stones, bolter and kneading machine to be provided.

10. It seems to me that if we can get the engine from the Gun Carriage Factory, all the rest could be put up cheaply enough; but this is a question on which I am not competent to offer an opinion.

11. I take the liberty of enclosing the ground plan* of a building which, I believe, would thoroughly meet all the requirements of a bakery, whether steam, water or bullock power were used; and I think, with a light roof, such a building might be built for a small cost by the Public Works Department.

* Dated 30th January 1884.

12. On the other hand, if there be any insuperable objection to adopting this, the plan sent by the Executive Engineer, with modifications, might answer, provided cheap steam machinery were used.

13. The modifications I should suggest would be: 1st, the doing away with the separate building for the ovens and putting these (4, each 12′ by 10′) behind the room marked "Bakery," which would have to be lengthened accordingly; 2nd, the erection of an enclosed lean to outside the boiler-room for the storage of firewood; 3rd, some provision for keeping the stock of wheat required for the monthly grinding.

No. 589, Military.

Transferred and the referred papers returned to the Public Works Department, with an expression of the concurrence of Government in the Military Department in His Excellency the Commander-in-Chief's opinion.

(By Order.)

FORT ST. GEORGE,
6th February 1884.

(Signed) A. R. KENNEY-HERBERT, Lieut.-Col.,
Officiating Secretary to Government.

ORDER—dated 8th February 1884, No. 338 W., Public Works.

Communicated to the Superintending Engineer, IV Circle, who will report, with the least possible delay, on the rough design furnished by the Commissary-General, and submit detailed plans and estimates based thereon, should that design appear free from objection.

2. The question of adopting water-power to ~~ve~~ the machinery, as suggested by the Commissary-General, should be fully consid~~.~~

(True Extra~~c~~

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

To the Superintending Engineer, IV Circle, with ~~twel~~ 4 enclosures.
„ Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated February, 8th.

Recd. *Encl.*

G.O., 8th Feb. 1884, No. 338 W.

FEBRUARY.

Bakery at Wellington

The Superintending Engineer, IV Circle, directed to report on the rough design furnished and suggestions made by the Commissary-General for constructing a —, and to submit detailed plans and estimates based thereon, if the design appears free from objection.

No: 427

Nilgiri Division Office
Cotacammd, 3rd Decr: 1883.

From

The Executive Engineer,
Nilgiri Division.

To

The Supg. Engineer,
Fourth Circle.

Sir,

With reference to your No: 578 N.D. of 26th November 1883, I have the honor to inform you that the cause of delay is simply that I have had so many other things to attend to that I have not been able to look into the question, coupled with the facts that my Office is shorthanded and the draughtsmen are fully occupied with current work and the revision of the Combined Post and Telegraph Office Estimate. The latter is almost ready; so I hope to submit a revised Bakery Estimate about the middle of December. But I may now mention that the estimate for

Rupees

x of the Wellington Bakery

Rs 60,560 may be reduced as under:-

Store Rupees	3,400	stated by Commissariat
Servants' lines "	3,300	Departt: not to be required
Dam and Machinery — "	22,500	His Excellency the Comm-ander-in-chief mentioned verbally to me that these might be omitted at present.
	5000	Unforeseen additions
	34,200	

The estimate would then amount to only Rs: 26,360. The only other way I see of reducing the estimate would be to omit the Engine and Boiler rooms; but if the Bakery is ever to be thoroughly efficient, I do not see the use of doing so. I shall still further consider the question of reduc-ing the sizes of the main Bakery build-ing and the ovens; but I doubt if any great reduction, consistent with future economy and efficiency can be made in them.

I have &c",
(signed) J. C. Cumming
Executive Engineer.

Copy

No. 557

Copy. — Forwarded for the information of the Chief Engineer, P. W. Department, with reference to his Memo: No: 2,302 of 23rd November 1883.

2. The Executive Engineer has been directed to hasten the submission of the Estimate as much as possible.

[signature] Lt. Col: R.E.,
8th Dec/83 Supg. Engineer, 4th Circle.

Hr must wait behind

CE
11/12

US
11-12-83

P.O. C/ 11-12-83

Pr.Ch. 11017

From

The Supg. Engineer
4th Circle

Dated 8th } December/83.
Ad 11

No. 557

Encls. —

Bakery at Wellington — Forwards Copy of Nilgiri Division letter explaining the delay in the Submission of revised Estimate for the —

(21)

Supg. Engineer's Office 4th Circle,
Pooncate 17 January 1884.

No. 23
W.

From,

The Superintending Engineer,
Fourth Circle.

To,

The Chief Engineer
P.W. Department

Sir,

With reference to your reminder No. 2663/297 of 12th instant, I have the honor to inform you that the Revised Plans and Estimate for constructing a Bakery at Wellington were forwarded to you on the 30th Ultimo.

× With this office letter No. 594 dy. 30th December/83.

I have the honor to be
Sir
Your Most Obt Servt

J. Beatty - Col. R.E.
Supg Engineer 4th Circle

Ans 11017 of 53 & 498 of 54

No 393 W a/ 13th Feby/84

Recorded with reference to L.O. 4s

338 W 8/8th Feby 1884

Cn

12-2-84

From

The Supg: Engineer

4th Circle.

Dated 17th }
Received 23 } January 1884

-/0 338 W. 8.2.84.

W.K.R. Circ. 1127

No 23
W

No 393 W date d 13th Feby/84

Bakery at Wellington—

Informs that the Revised Plans and Estimate for constg a— were for—warded on the 30th Ultimo.

C No 1127
7-2-84

Written Abstract

Entd Recpt Regr