shall first be submitted to the Sanitary

(1) பக்கங்களின் எண்ணிக்கை 22

(2) புதுக்கித் திருப்பிய நாள் Oct - 1990

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் [illegible]

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P & D துறை

(3)

அரசாணை எண். —
மு. கோப்புத் தாள் எண். 157

அச்சகம்
பலவகை

நாள் : 16-1-1992

198 /.

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

11 Shelf

ஆவண. கா-1—18,006—15-6-87.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From Brigadier-General E. H. EYRE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 21st November 1891, No. 2551 M.W.

With reference to G.O., No. 7270 of 28th November 1890, I am desired to forward, for the sanction of Government, the accompanying plans and estimate, duly approved by the Commander-in-Chief, the latter amounting to Rs. 15,000 for constructing quarters for the Officer Commanding the Madras Infantry Detachment to be stationed at Vellore.

2. It being desirable that all the necessary accommodation required in connection with the location of two companies of Madras Infantry at the above station should be provided, I am to ask that an early allotment of funds for this work may be made, which it is assumed will be allotted from the Provincial Public Works budget, and to say that, pending the construction of the quarters in question, it is not considered advisable to permanently transfer the Military buildings, now in temporary use with the Civil Department, to the civil authorities.

No. 6686, Military.

Referred to the Public Works Department with advertence to O.G., No. 4788-C., dated 20th November 1890, in regard to the incidence of the cost of the proposed building.

(By Order.)

FORT ST. GEORGE,
24th November 1891.

(Signed) H. R. HOPE, Bridgr.-Genl.,
Secretary to Government.

From Major C. C. RAWSON, R.E., Executive Engineer, North Arcot division, to the Superintending Engineer, IV Circle, dated 17th December 1891, No. 711 S.E.

With reference to the Chief Engineer's memorandum communicated with your endorsement No. 999/N.A. of 10th December 1891, I have the honour to inform you that the building in the Vellore Fort known as the Commandant's quarters is used as the office and court room of the Sub-Collector. It would probably cost about Rs. 20,000 to provide an office for the Sub-Collector on the standard plan including value of site.

2. The Sub-Collector vacated the building from the 4th March 1887. He did so on the authority of G.O., No. 1, Revenue, dated 7th January 1887, para. 2, communicated with G.O., No. 1876 W., dated 13th July 1887.

No. 2 E.W.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his memo. No. 5537 C., dated 9th December 1891. The undersigned has been informed by the Sub-Collector that he has, on more than one occasion, asked the permission of the Collector to occupy the building as a residence and revert to the old order of things.

1st January 1892. (Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Superintending Engineer, IV Circle.

ORDER—dated 16th January 1892, No. 151 W., Public Works.

The approximate estimate, amounting to Rs. 15,000, for constructing quarters for the Officer Commanding a detachment of the Madras Infantry at Vellore, is sanctioned for execution by the Military Works Department, the cost being met from Provincial funds.

2. This sanction is accorded on the condition that the following Military buildings in the Fort at Vellore, now in temporary occupation by the civil authorities, are permanently transferred :—

(1) Commandant's quarters.
(2) Main Guard.

The requisite sanction of the Government of India to the transfer will be applied for in the Military Department.

3. On receipt of the sanction of the Government of India, an appropriation of Provincial funds will be made for the construction of the quarters.

4. This sanction has been registered as Provincial No. 101 W. of 1891–92 and classified as Civil Buildings, Original Works.

(True Extract.)

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

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.
" Military Department, with three enclosures.

Exd. C. A. Munisawmy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1892} Madras.

PUBLIC WORKS.

Dated January, 16th.

Rcd. *Encl.*

G.O., 16th Jan. 1892, No. 151 W.

JANUARY.

Quarters

Approximate estimate of Rs. 15,000 for constructing — for the Officer Commanding a detachment of the Madras Infantry at Vellore, sanctioned for execution by the Military Works Department, the cost being met from Provincial funds.

Form No. 7.

18

HEADING Quarters. Officers.

It is requested that the heading, number, and date of this communication may be quoted in any subsequent correspondence on this subject.

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund,
21st November 1891.

No. 2551 M.W.

From

BRIGADIER-GENERAL E. H. EYRE,
QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

SIR,

Not Cmd'd 16th Dec.

With reference to G.O. No 7270, of 28th November 1890, I am desired to for-
ward for the sanction of Government the accompanying plans and Estimate, duly approved by the Commander-in-Chief, the latter amounting to Rs. 15,000 for constructing quarters for the Officer Commanding the Madras Infantry Detachment to be stationed at Vellore.

2. It being desirable that all the necessary accommodation required in connection with the location of two companies of Madras Infantry at

at the above station, should be provided,
I am to ask that an early allotment
of funds for this work may be made,
which it is assumed will be allotted
from the Provincial Public Works
Budget, and to say that pending the
construction of the quarters in question,
it is not considered advisable to per-
manently transfer the Military buildings
now in temporary use with the Civil
Department, to the Civil authorities.

I have the honor to be
Sir.
Your obedt. Servant,

[illegible]
Colonel,
For Quarter Master Genl.

P. W. CURRENT No. 12402

Military (1891) Department.

Current No. 6987

cf 18-2-1890 no 1262 R
" 19-9-1890 no 5899 R
" 13-11-1890 no 6994 R
" 28-11-1890 no 7270 R

From

The Quarter Master General,

To

The Secretary to Government,
Military Department.

REQUESTED TO BE RETURNED WITH REPLY.

28

Fort Saint George
24th November 1891.

No. 2551 mis.

no: 6686

Dated 21st Nov 1891.
Received 23-2

Recd: 25-11-91

Referred to the Public Works Department with advertence to G.O. 4788-c dated 20th Nov 1890 in regard to the incidence of the cost of the proposed building.

/ By order /

Bright 96

Secretary to Government.
Military Dept.

To

The P.W.D.

ENCLOSURES: 3 (3 plans)

Forwards for sanction plan & Est. for construction of quarters for the O.C. M.I. Detc. to be stationed at Vellore

No. 2066 W 491-9-80
" 2066A-W - 1-9-80
" 2308 W - 5-10-80
" 2089 W - 23-8-81
" 3067 W - 9-12-81
" 607 W - 26-2-90
" 1198 C - 5-3-90
" 1716 W - 20-6-90
" 4788 C - 20-11-90

North Arcot Dn Office
No. 711-S.E. 17th December 1891

30

From

Major C.C. Rawson R.E.
Executive Engineer
North Arcot Dn

To

The Superintending Engr
4th Circle

Sir,

With reference to the Chief Engineer's memo Communicated with your endorsement No. 999 Ng. of 10th December 1891 I have the honor to inform you that the Building in the Vellore Fort known as the Commandant's quarters is used as the office and Court room of the Sub Collector. It would probably cost about Rs 20000 to provide an office for the Sub Collector on the standard plan including value of site.

2. The Sub Collector vacated the

the building from the 4th March 1887. He did so on the authority of G. O. No 1 Revenue dated 7th January 1887 para 2 Communicated with G. O. No 1876W dated 13th July 1887.

I have &c.

Sd. C. C. Rawson Major RE
Executive Engineer.

No. 2/EW of 1-1-92

Copy. Forwarded to the Chief Engineer P.W. Department with reference to his memo No. 5537C dated 9th December 1891.

The undersigned has been informed by the Sub Collector that he has on more than one occasion asked the permission of the Collector to occupy the building as a residence and revert to the old order of things.

Alfred Ludw. Buchanan Lt Col: RE
Superintending Engineer 4th Circle

48

No. 3184 - 5-8-7 - 57 Rev
" 3708 - 21-10-57 "
" 4167 - 23-11-57 "
" 1767 - 24-12-57 Rev
" 10 - 4-1-61 "
" 287 - 6-2-61 "
" 1827W - 11-8-80
" 3067W - 9-12-81
" 97W - 12-1-82
" 2066W - 1-9-80
" 2066AW - 1-9-80
" 2308W - 5-10-80
" 2089W - 23-8-81
" 3067W - 9-12-81
" 607W - 26-2-90
" 1198C - 5-2-90
" 1716W - 20-6-90
" 4788C - 20-11-90
" 1876W - 13-7-87
" 2161W - 13-8-87
" 2557W - 24-9-87
" 4W - 2-1-89
" 717W - 9-3-87
" 3367W - 17-12-90
" 5537C - 9-12-91

P. W. CURRENT No. 27

From

The Supg. Engr
4th Circle

dated 1st
Recd 2nd } Jany/92

No. 2.
E W

Building in the Vellore Fort known as the Commandants' Quarters.

Submitting copy of letter from the Ex. Engr N. A. Dn. informing on the cost of providing an office for the Sub Collr in the Fort

Mr
Mr Ward

For orders.

Submitted with reference to the Hon. Member's note dated 5th December. The cost to Provincial Funds of the present proposal will be Rs 15,000 – and the Civil Dept will thereupon acquire two buildings, the aggregate value of which is Rs 28,662 – Vide Note for orders 4/26–XI–91.

The quarters have not been occupied as a residence by the Sub Collector since 1887.

Dup
4.1.92

We must await the proposed arrangement.

Dec 4.1
W

Mrs
Dec

Hon Gen 7/2

P. W. Department.

Read the following.

Letter from the Quarter Master General, No. 2551 Mtb
dated 21st November 1891.
Endt thereon in the Military Dept. No. 6686 d/24th Novr. 91.

For orders.

In the proceedings of the Military Department No. 1262 dated 18th February 1890, it was decided to erect quarters inside the Vellore Fort for the officer in command of the detachment of the Madras Infantry and provided the cost of these quarters was borne by Provincial funds it was proposed to transfer permanently to the Civil authorities, certain Military buildings in the Fort now in temporary use by Civil Establishments.

2. The following are the

The rights of the military dept: to the buildings now occupied by the Collr: Cutchery & Tahsildar's Offices seems to be founded entirely on their inclusion in these military returns: this is not sufficient. The buildings have been occupied for civil purposes for a long time, probably for upwards of half a century and the circumstances attending under which they are now occupied should be traced. Unless a right of resumption is clearly established or waived at that time, I should not admit the claim upon Provincial funds.

Illegible
27 Nov.

the buildings proposed to be so transferred.

No. 7. Main Guard – Occupied as a Salt Cutcherry and Sub Collector's office.

No. 8. Commandant's Qrs. Occupied as Sub Collector's quarters.

3. These buildings appear as items 31 and 32 in the list of Surplus Military buildings printed with G.O. 2689W dated 23rd August 1891 and are still borne in the Military returns though kept in repair from Provincial funds in the same manner as several other Military buildings in the Fort lent for Civil uses.

4. The question now is whether the proposed arrangement should be accepted; the expense to Provincial funds being Rs 15,000/.

5. The value of the buildings to be transferred by

× Vide list B with G.O. 1716W of 20th June 1890.

Main Guard – Rs 7000
Commandant's Quarters 24,662

The above figures include the values of the houses – They are taken from the Register of public buildings.

by the Military Authorities disputed if the ~~improvements and~~ ~~improvements~~ buildings, there can be no question that it will cost considerably more than Rs 15,000 if new buildings are erected for the accommodation of the Establishments now provided for in the buildings numbered 7 and 8 above.

W.
26/11

OWB
26.11.91

R.S.

P. W. Department.

Note

Hon'ble Member's remarks d/ 27th November 1891 on C. No. 12402

It will be seen from the separate file of papers now collected that on the abolition of the Vellore Brigade Commandership in 1859, some of the Military buildings in the Fort were placed at the disposal of the Civil authorities, the Commandant's quarters in G.O. 1769 dated 24th December 1859, Revenue, and the Main Guard in G.O. 287 dated 6th February 1861 Revenue. In regard to the building it was

Hm. 26-11-91. R 30/11/91.

that it could be "retained so long as European troops are not stationed in the Fort".

G.O. 1927 W dated 11th August 1880 assumes that the Military Department retains a lien on all the buildings in the Fort.

I am afraid we are stamped by this order, and to have either to give up the Sub Con's house or build the Quarters. What is the rating of the Sub Con's house? Also if we build (& maintain) shall we get it up the List Con's & can we find a house elsewhere in Vellore.

Has 5 bes

& Rs 21662 - vide previous note for orders of 26-11-91.

No. 3184-548-9-59 Mily.
- 3708 - 21-10-59 -
- 4169 - 23-11-59 -
- 1769 - 24-12-59 Rev.
- 10 - 4-1-61 -
- 287 - 6-2-61 -
- 1927 W - 11-8-80
- 6443 - 6-12-81 Mily)
(3067 W - 9-12-81)
- 995 - 12-1-82.

No. 157 W dy 16th Jany. 1892

PUBLIC WORKS DEPARTMENT.

B & P
Civil Works

PROCEEDINGS OF THE MADRAS GOVERNMENT.

5 P 157/10

READ the following

From the Quarter Master General No: 2551 mus d/ 21st Nov 1891
Endorsement thereon in the Mily Dept: No: 6686 d/ 24th Nov 1891
From the Supdg Engineer IV circle No: 2 EW d/ 1st Jan 1892.

The approximate estimate, amounting to Rs. 15000, for constructing quarters for the officer Commanding a detachment of the Madras Infantry at Vellore, is sanctioned for execution by the Military Works Department, the cost being met from Provincial Funds.

2. This sanction is accorded on the condition that the following military buildings in the Fort at Vellore, now in temporary occupation by the Civil authorities, are permanently transfe

Ltr 15 Jan

transferred:—

(1) Commandant's quarters

(2) Main Guard.

The requisite Sanction of the Govt. of India to the transfer will be applied for in the Military Dept.

3. On receipt of the Sanction of the Govt. of India, an appropriation of Provincial funds will be made for the construction of the quarters.

4. This Sanction has been registered as Provincial No: 101-W of 1891-92 and classified ...s Civil Buildings, ...iginal Works.

To

The S. E. IV circle.
" Examiner, P. W. Accts.
" Mily Dept. with 3 extra

To

...Secretary to Govt.
Military Dept.
for favor of Communication

157
19

C° No 27

92

PUBLIC WORKS.

16 January 92 1513

Quarters

Estimate of Rs 15,000 for
Constructing —— for the
Officer Commanding a
detachment of the Madras
Infantry at Vellore, Sanctioned
with remarks, for execution
by the Military Works
Dept.; the cost being met
from Provincial Funds.

92
15

J. 16/1

Je 16/

11

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated July, 21*st*.

Recd. *Encl.*

G.O., 21st July 1888, No. 2230 W.

JULY.

Just Rec. 23 July 88
1

Type-designs

Circulating the revised — with descriptive specifications and estimates of quantities for Sub-Registrars' offices in supersession of previous type-designs.

11

15th January 1892, No. 49, Revenue.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 30th December 1891, No. 833:—

Mr Clogstoun.

Read—the following letter from W. G. UNDERWOOD, Esq., Collector of Anantapur, to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture, dated 24th December 1891, B.D. No. 448:—

With reference to the Board's telegram of the 12th instant, inquiring when the monthly report on the condition of this district will be submitted, I have the honour to state that I am not aware of any order calling for this report. The one prescribed by the famine code is the monthly statement No. 10 referred to in section 100. Probably a general report on the present condition of this district is what is wanted, and I beg to submit this, in continuation of my letter printed in Board's Proceedings, No. 708, dated 4th November 1891.

2. *Cultivation.*—The following abstract shows the cultivation and rainfall of this district from April to November 1891 for the last eight years. It will be seen from this that the current fasli is deficient both under cultivation and rainfall as compared with the preceding six years; but, taking fasli 1294, which is generally called a famine year in this district, the rainfall is almost the same, although there is an increase of about 25 per cent. in cultivation. This was owing to the anticipated fair monsoon this year, which, however, was not the case.

Cultivation and rainfall in the district from April to November.

Fasli year.	Dry.	Wet.	Total.	Rainfall in inches.
	Acs.	Acs.	Acs.	
1301	933,134	52,668	985,802	10·79
1300	1,106,710	57,254	1,163,964	20·16
1299	1,183,482	62,509	1,245,991	32·57
1298	1,095,430	58,233	1,153,663	20·22
1297	1,209,061	71,813	1,280,874	25·63
1296	1,180,661	83,707	1,264,368	25·43
1295	1,026,613	54,500	1,081,113	20·59
1294	758,846	36,770	795,616	10·16

3. *Season.*—Reports long ago called for from divisional officers as to the precise state of affairs in their respective divisions, the intensity of distress and the nature of the relief to be provided in the affected parts have not yet been received although urgent reminders have been sent for the same. In order that there may be no further delay in the matter, this report is submitted, as the condition of each taluk in the district can be roughly ascertained from the weekly season reports sent to the Board every Monday.

4. *Prices.*—The prices of the staple food-grains in the district have, as shown in the marginal abstract, gone up higher than in fasli 1294, the last famine year, and have in some instances exceeded the scarcity rates.

Food-grains.	During week ending 19th December 1891.	During fasli 1294.	—
Rice	8·19	12·69	In seers of 80 tolas.
Cholum	12·61	24.4	
Ragi	14·27	26·8	
Cumbu	11·77	21·9	

5. *Kalyándrúg division, Dharmavaram taluk.*—Since my last report on the Kalyándrúg division of the Dharmavaram taluk (*vide* my letter No. 245, dated 31st October 1891), I received information that there was an absolute want of labour

in that division for all classes and especially for the weavers, who were in a miserable plight, the merchants on whom they depended for their sustenance having withdrawn their help for want of demand for country-made piece goods. I immediately and in anticipation of orders authorized the commencement of walling the forest reserve at an estimated cost of Rs. 400 for a mile and sanctioned as an emergency Rs. 2,000 for the purpose, as no other work was available in the vicinity of the town capable of affording labour for a sufficiently large number of people. The progress report for the week ending 19th December 1891 shows that 466 persons are now at work and that Rs. 601 have been spent up to date.

Uravakonda division, Gooty taluk.—Since my report on the state of this division (*vide* my letter No. 244, dated 8th October 1891), circumstances have considerably changed for the worse. The failure of the north-east monsoon resulted in a sudden rise of prices and want of labour was felt everywhere. On the representation of the Deputy Collector, Gooty, I have authorized the opening of relief kitchens at Uravakonda and Yadiki. As want of labour is also reported to be felt in the main division of the Tadpatri taluk, the Deputy Collector was authorized to commence walling the reserves and to include the marginally-noted works in the programme of his division. These small works will at once be started if necessity arises. As an emergency, the sum of Rs. 2,000 was ordered to be placed, at Rs. 1,000 each, at the disposal of the Deputy Tahsildars of Uravakonda and Yadiki for relief expenditure in their respective head-quarters.

Yadiki division, Tadpatri taluk.	Rs.
1. A feeder to the Vanganur railway station	1,620
2. Deepening a kunta at Bondaladinna	310

6. In Board's Proceedings No. 782, dated 9th December 1891, the opening of relief kitchens at Kalyándrúg, Uravakonda and Yadiki was ordered if necessary. I have asked my divisional officers to take the necessary steps under section 56 of the code, and the services of the three stock inspectors deputed on famine duty to this district under Board's Proceedings, Mis. No. 7410, dated 18th December 1891, will be utilized in the three places mentioned above. It is now certain that famine relief works have to be started at once at certain places in the district and funds allotted for the purpose. I therefore request that for the present Rs. 50,000 be sanctioned to be spent on relief works and kitchens. A detailed programme will be prepared and submitted as soon as complete information is received from divisional officers. With my letter No. 107, dated 20th instant, the programme of Civil Agency Works to be undertaken in this district was submitted and estimates are being made ready for those for which they were wanting. The following list of works has been selected for immediate execution in consultation with Mr. Clogstoun, the Famine Commissioner, and Mr. Heinig, the Sub-divisional officer :—

A. Works in hand (being done by contractors).

Penukona Taluk.

1. Roddam large tank Near Mysore territory.
2. Roddam small tank
3. Kalpi tank

B. Works proposed (not sanctioned).

Imperial.

1. Kundurpi tank (Kalyándrúg).

Minor.

2. Nuthimadugu (Dharmavaram taluk).

Imperial.

3. Apparlpyet (Dharmavaram taluk).
4. Namuddala
5. Ravalcheruvu

Imperial.

6. Potalakunta (Penukonda taluk).
7. Embankments of river at Tadpatri.
8. Embankments of river at Pamidi, Gooty taluk.

Resolution—dated 30th December 1891, No. 833.

Submitted for the information of Government.

2. As already reported in Board's Proceedings, dated 4th November 1891, No. 708, the south-west monsoon rains were exceedingly deficient throughout the district, and though during October there was a fair fall in some parts, in November there was a further general failure, whilst since the beginning of the current month there has practically been no rain at all. Particulars for all rainfall stations in the district are given below :—

Stations.	Rainfall in inches.									
	April-May.		June to September.		October.		November.		December.	
	Average.	1891.	Average.	1891.	Average.	1891.	Average.	1891.	Expected average.	Up to 26th.
Uravakonda	2·44	·08	11·05	7·15	5·45	·90	1·85	0·60	·32	..
Gooty	2·44	..	15·83	5·86	5·29	5·00	1·48	..	·16	..
Yadaki	1·81	1·20	13·61	6·22	4·63	1·58	1·86	0·23	·21	..
Tadpatri	1·87	·80	15·36	6·77	5·31	4·91	1·65	1·92	·23	..
Anantapur	2·30	·87	12·06	4·14	5·09	3·87	1·44	0·87	·14	..
Dharmavaram	2·15	·20	11·72	5·83	5·06	2·27	2·02	1·45	·19	·12
Kalyándrúg	2·92	1·10	10·35	3·20	5·56	·70	2·65	1·36	·15	·08
Bukkapatnam	1·25	·15	14·75	4·50	5·52	5·65	3·12	0·50	·46	..
Penukonda	3·30	1·62	12·13	4·42	6·05	7·17	2·49	0·80	·31	·05
Hindupur	3·35	·35	11·59	8·25	5·38	2·95	1·83	1·25	·29	..
Madakasira	4·61	1·99	11·68	5·60	6·42	2·96	1·99	1·51	·34	·05
Average ..	2·87	·76	12·97	5·63	5·63	3·45	1·79	0·95	·22	·03

3. The early sown crops were very poor and the area sown much below the average. During October and November a considerable area was sown, but at the end of the latter month all extension of the area had ceased, and the total area put under crop showed about 306,500 acres of dry land and about 65,000 acres or more than half the wet land left waste. The Collector gives no information as to the condition of the standing crop, but from the weekly reports it appears that most of the later sowings are withered or withering, and the supplies of irrigation water in tanks, channels and wells are failing, the tanks being generally dry. The submission of full information on this subject must be expedited, and the matter must be fully noticed in the Collector's report for December, which is due on the 7th January. His attention will be specially called to the instructions given in Government of India Circular printed in Board's Proceedings, dated 31st July 1885, No. 2232 :—

Taluks.	Dry cultivation.					Wet cultivation.				
	Sowings.				Total for the year.	Sowings.				Total for the year.
	During November.		April to November.			During November.		April to November.		
	Average.	1891.	Average.	1891.		Average.	1891.	Average.	1891.	
	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.
Gooty	30,985	54,152	354,713	284,319	374,241	516	1,086	7,216	4,818	11,945
Tadpatri	11,154	39,627	211,982	182,431	218,029	716	2,420	7,940	8,042	10,826
Anantapur	23,540	21,356	182,229	154,180	204,382	809	609	9,049	6,698	17,893
Dharmavaram ..	30,069	15,807	196,364	162,865	218,972	496	107	7,953	7,468	18,496
Penukonda	4,737	9,399	72,947	65,958	80,536	623	641	7,707	6,586	18,067
Hindupur	2,945	4,679	50,075	40,941	54,934	1,118	1,962	11,477	12 193	24,456
Madakasira	1,606	1,547	60,230	42,440	62,983	188	430	7,990	6,863	14,753
District averages ..	104,273	146,567	1,150,094	933,134	1,239,634	4,384	7,255	66,468	52,668	117,971

The taluk averages are for three years and the district ones for five years.

4. The report gives no information as to the condition of the cattle of the district but the weekly reports show that fodder is very scarce and pasturage generally scanty, and that the cattle are suffering considerably. This matter must also receive attention.

5. Prices began to rise sharply in September last, and though there was somewhat of a pause during October, in November the rise was very rapid and has since been continued, so that the average prices of all food-grains were above the scarcity rates for the district on the 26th December :—

In seers of 80 tolas per rupee.

Stations.	Rice, 2nd-sort. 1891.					Cholum. 1891.				
	September.	October.	November.	Normal for November.	26th December.	September.	October.	November.	Normal for November.	26th December.
1	2	3	4	5	6	7	8	9	10	11
Uravakonda	10·80	10·26	9·07	13·68	..	21·12	16·22	15·81	32·24	..
Gooty	9·99	9·99	8·64	13·05	7·56	20·60	20·34	15·97	30·77	14·42
Yadaki	11·56	11·34	8·75	14·47	..	21·58	24·10	14·71	31·87	..
Tadpatri	10·80	10·80	9·07	14·62	8·64	19·26	20·50	15·50	27·14	12·88
Anantapur	10·80	10·61	9·07	14·28	8·64	22·71	20·75	16·89	32·21	14·42
Dharmavaram	11·26	10·80	9·89	17·64	7·56	22·31	20·60	18·36	32·78	11·33
Kalyándrúg	11·34	10·80	9·72	16·20	..	23·30	21·11	16·74	34·23	..
Bukkapatnam	11·23	11·34	8·75	17·10	..	22·87	23·69	17·92	34·33	..
Penukonda	11·23	11·52	8·97	17·36	8·10	24·65	21·06	15·76	37·93	12·36
Hindupur	10·75	11·80	9·21	16·96	7·56	22·07	21·36	18·06	36·31	11·33
Madakasíra	10·80	11·37	9·78	17·64	9·72	25·75	..	..	39·14	..
District average ..	11·00	11·00	9·20	15·20	8·25	22·40	21·00	16·60	32·70	12·79
Scarcity rates ..	9·7					13·7				

In seers of 80 tolas per rupee—*cont.*

Stations.	Cumbu. 1891.					Ragi. 1891.				
	September.	October.	November.	Normal for November.	26th December.	September.	October.	November.	Normal for November.	26th December.
1	12	13	14	15	16	17	18	19	20	21
Uravakonda	19·27	14·10	16·92	28·10	..	20·85	12·61	..	32·91	..
Gooty	17·86	15·98	14·57	24·99	13·16	21·82	19·40	16·73	29·99	13·58
Yadaki	16·49	15·39	15·20	23·88	..	20·37	..	..	34·26	..
Tadpatri	17·67	16·17	14·48	24·53	11·75	18·62	20·95	17·27	29·52	13·58
Anantapur	19·65	16·92	14·66	26·85	11·28	23·28	20·99	17·65	33·23	14·55
Dharmavaram	21·85	20·90	17·39	31·03	10·45	24·70	24·09	20·69	35·66	13·58
Kalyándrúg	24·21	24·44	18·10	36·97	..	22·31	20·86	16·97	36·86	..
Bukkapatnam	23·31	22·56	..	31·96	..	27·55	20·68	22·02	37·57	..
Penukonda	19·80	..	..	33·10	..	26·12	24·37	19·33	44·47	15·52
Hindupur	..	..	..	..	..	25·28	26·91	21·58	54·76	..
Madakasira	..	..	..	..	..	26·19	22·99	21·73	[illegible]	14·55
									60·83	15·52
District average ..	20·00	18·30	15·90	29·00	11·66	23·40	22·30	19·30	36·40	14·41
Scarcity rates ..	13·1					14·7				

These prices combined with the failure of fid labour have caused a good deal of pressure on the poorer classes and especially inne Kalyándrúg division of Dharma-

varam, the Uravakonda division of Gooty, and the Yadiki division of Tadpatri taluk. In the first-named division a relief work has been opened at which 459 persons were employed on the 26th current and in the other two relief kitchens have been sanctioned : whilst in the main division of Tadpatri taluk a relief work has been ordered to be started.

In addition to these, works have been selected in the Gooty, Tadpatri, Dharmavaram and Penukonda taluks to be started hereafter if required. The Collector asks for a grant of Rs. 50,000 towards relief expenditure, but a grant of Rs. 10,000 will for the present be sufficient. Eight of the works in question are tanks, and the necessary estimates should be at once submitted for sanction if the works have not already received sanction. The work in the Gooty taluk is the embankment of the Pennér river near the railway bridge, a work about to be carried out by the Railway Department and suited for the employment of a large number of people. The work selected for the Tadpatri taluk is the embankment of the river as a protection to the town. There are no irrigation works in the locality on which labour can be employed. The approval of Government is requested to the selection of works made above. None will be put in hand without proved necessity.

No proposals for the increase of the establishment for the supervision of works have been submitted by the Collector. The necessity for this extra establishment will depend upon whether the test works started are found to be largely resorted to.

6. In future reports the Collector is requested to notice the progress made in well-sinking by the aid of State loans fully for each taluk.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
„ Collector of Anantapur.
Copy to the Government of India, Revenue and Agricultural Department.

READ—also the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 4th January 1892, Mis. No. 15 :—

MR. CLOGSTOUN.

Read—the following letter from W. G. UNDERWOOD, Esq., Collector of Anantapur, to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture, dated 29th December 1891, No. 458-B.D. :—

Adverting to Board's Proceedings, No. 782, dated 9th December 1891, I have the honour to report, for the information of Government, under section 36 of the Famine Code, that I have placed the sum of Rs. 4,000 at the disposal of the Deputy Tahsildars noted in the margin for expenditure on relief works and kitchens and communicated a copy of this letter to the Accountant-General also.

	Rs.
1. Kalyándrúg	2,000
2. Uravakonda	1,000
3. Yadiki	1,000
Total ...	4,000

2. In my letter, No. 448, dated 24th instant, I reported on the state of this district up to the close of this month and asked for a special grant of Rs. 50,000 for outlay on famine relief.

Resolution—dated 4th January 1892, Mis. No. 15.

Submitted for the information of Government in continuation of Board's Proceedings, No. 833, dated 30th December 1891.

2. Funds placed at the disposal of Divisional officers for the purposes of gratuitous relief in kitchens should be kept distinct from advances made for the payment of wages on relief works.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
„ Collector of Anantapur.

ORDER—dated 15th January 1892, No. 49, Revenue.

Miscellaneous.

The Board's instructions including those regarding the selection of relief works are approved.

2. The application for funds will be disposed of in the Financial Department.

(True Extract.)

Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ the Financial Department.
„ the Public Works Department (W).
„ the Public Works Department (I).

CHIEF ENGINEER FOR IRRIGATION. 25 JAN. 92 No.

E1

Erd. A. Aubert.

90 Copies.

2021

P. W. CURRENT No. 730

Govt. of {1892} Madras.

REVENUE.

Issued 205.C

Recd. *Encl.*

Recd: 25-10-92

G.O., 15th January 1892, No. 49.

JANUARY.

Season, Anantapur.

The instructions issued by the Board of Revenue regarding the selection of relief works, approved.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

ORDER—dated 19th January 1892, No. 65, Financial.

The several departmental estimates for 1892–93 have been reviewed and the Government has revised them with reference to the assignments proposed by the Government of India for the new Provincial contract.

2. The accounts of the year 1890–91 closed with a balance of 66·08 lakhs to the credit of Provincial revenues. The revised estimates of the current year show a deficit of 31·90 lakhs, reducing the opening balance of 1892–93 to 34·18 lakhs.

3. The receipts and charges of the ensuing year severally amount to 292·16 and 311·96 lakhs, as shown below:—

	LAKHS.
Revenue.	
Principal heads	257·10
Interest	·60
Civil Departments	16·91
Miscellaneous	2·82
Public Works—	
Irrigation	1·50
Civil works	1·40
Adjusting heads	11·83
Total ..	292·16
Expenditure.	
Principal heads	72·04
Interest	·60
District Post	1·07
Civil Departments	138·50
Miscellaneous	23·23
Famine Relief	·05
Public Works—	
Railways	13·32
Irrigation	31·50
Civil works	29·30
Adjusting heads	2·35
Total ..	311·96

4. The Government is however informed that it is imperatively necessary to provide ten lakhs under Grant 33. *Famine relief* for 1892–93, and this entry will be made.

Separate orders restricting the expenditure in the current year on Civil Works—Public Works Department—to 28 lakhs are issuing, and the Accountant-General's figures under Grant 45. will be modified accordingly.

Adopting these alterations, the deficit of 1891–92 will amount to 27·05 lakhs, and that of 1892–93 to 29·75, while the closing balance of the latter year will stand at 9·28 lakhs.

5. The appended statements show, so far as Provincial funds are concerned, the actuals of 1890–91 and the budget estimates of 1891–92 and 1892–93.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Accountant-General.
" Revenue Department.
" Public Works Department.

Exd. A. Raitt.

Provincial Budget Estimates for 1892–93.

Revenue and Receipts.	Actuals, 1890–91.	Budget, 1891–92.	Budget estimate, 1892–93.
	LAKHS.	LAKHS.	LAKHS.
Principal Heads.			
I. Land Revenue Collections ..	118·53	122·00	125·33
Land Revenue Adjustments ..	21·93	40·16	25·42
III. Salt	2·10	1·58	1·44
IV. Stamps	48·43	49·50	49·13
V. Excise	29·99	29·75	31·50
VII. Customs	·33	·30	·35
VIII. Assessed Taxes ..	8·21	8·25	8·63
IX. Forest	17·95	18·00	9·50
X. Registration ..	5·42	5·50	5·80
	252·89	275·04	257·10
Interest.			
XII. Interest	·43	·38	·60
Post Office.			
XIII. District Post ..	..	..	..
Civil Departments.			
XVI. Law and Justice—Courts	5·65	5·70	6·50
Law and Justice—Jails	2·03	1·90	2·13
XVII. Police	4·20	4·20	4·27
XVIII. Marine	..	·03	..
XIX. Education ..	1·35	1·37	1·42
XX. Medical	·73	·73	·73
XXI. Scientific and Minor Departments ..	1·75	1·49	1·86
	15·71	15·42	16·91
Miscellaneous.			
XXII. Superannuation ..	·34	·33	·36
XXIII. Stationery and Printing ..	·85	1·06	1·07
XXV. Miscellaneous ..	1·48	1·38	1·39
	2·67	2·77	2·82
Railways.			
XXVI. State Railways, &c.	..	..	..
Irrigation.			
XXX. Minor Works and Navigation ..	1·39	1·25	1·50
Buildings and Roads.			
XXXII. Civil Works ..	·31	·07	·22
Public Works Department ..	·98	1·00	1·18
	1·29	1·07	1·40
Adjusting Heads.			
Contributions from Local Funds—Ordinary	1·91	1·36	1·51
For Máyavaram-Mutupet Railway	..	2·59	10·32
	1·91	3·95	11·83
Total Receipts ..	276·29	299·88	292·16
Opening Balance	79·76	63·22	39·03
Grand Total ..	356·05	363·10	331·19

Expenditure.	Actuals, 1890–91.	Budget, 1891–92.	Budget estimate, 1892–93.
	LAKHS.	LAKHS.	LAKHS.
Principal Heads.			
1. Refunds	1·07	1·00	1·02
3. Land Revenue	45·79	48·05	48·51
5. Salt	·47	1·01	5·03
6. Stamps	1·23	1·28	2·16
7. Excise	1 18	1·25	1·68
9. Customs	1·56	1·62	1·63
10. Assessed Taxes	·08	·08	·08
11. Forest	12·40	13·40	8·00
12. Registration	3·38	3·53	3·93
Total ..	67·16	71·22	72·04
Interest.			
13. Interest on Ordinary Debt	·36	·56	·60
Post Office.			
15. District Post	·96	1·07	1·07
Civil Departments.			
18. General Administration ..	9·86	9·44	9·72
19. Law and Justice—Courts.	41·84	43·87	43·76
Do. —Jails ..	8·39	8·60	9·00
20. Police	39·95	40·39	43·09
21. Marine	·38	1·69	1·21
22. Education	14·04	14·35	15·67
24. Medical	10·73	10·77	11·20
25. Political	·86	·75	·76
26. Scientific and other Minor Departments	3·84	3·32	4·09
Total ..	129·89	133·18	138·50
Miscellaneous.			
29. Superannuation	13·39	13·41	14·50
30. Stationery and Printing.	7·48	7·48	7·38
32. Miscellaneous	1·29	3·35	1·35
Total ..	22·16	24·24	23·23
Famine Relief and Insurance.			
33. Famine Relief	·24	·05	10·00
37. Construction of Railways.	2·86	9·31	~~13·32~~ 15·50
Total ..	3·10	9·36	23·32
Railways.			
41. Miscellaneous Railway Expenditure	{·35 1·40} ..	..	..
Total ..	1·75	..	..
Irrigation.			
43. Minor Works and Navigation	35·46	37·00	31·50
Buildings and Roads.			
45. Civil Works—Civil ..	1·41	8·09	6·30
Do. —P. W. D.	24·80	35·23	23·00
Total ..	26·21	43·32	29·30
Adjusting Heads.			
Contributions to Local Funds.	2·92	2·70	2·35
Total Charges ..	289·97	322·65	321·91
Closing Balance	66·08	40·45	~~9·28~~ 8·12
Grand Total ..	356·05	363·10	331·19

Govt. of {1892} Madras.

FINANCIAL.

Issued

Recd. Encl.

G.O., 19th January 1892, No. 65.

JANUARY.

Budget Estimates.

Passing final orders on the — under Imperial, Provincial and Local funds for 1892–93.

No 237 W dy 25th January 1892

Communicated to the Chief Engineer for Irrigation and the Consulting Engineer for Rys.

/By order/

To
The Chief Engr for Irrigation
" Consg Engr for Rys
" Examiner P.W. Accounts

S.E. VI File

Issued

Recd. Encl.

G.O., 5th January 1892, No. 19. M.

JANUARY.

Drainage and Water-supply.

Referring to the Municipal Council, Palni, for report, the proposals of the Sanitary Engineer regarding the improvement of the — of the Municipality, and adding a new rule to those issued in G.O., dated 8th August 1890, No. 1971 L., for the guidance of the Sanitary Board.

first be submitted to the Sanitary

The existing rules 8 and 9 should now be numbered

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Municipal Council, Palni,
through the Collector of Madura.
„ all other Chairmen of Municipal Councils,
through the Collectors concerned.
„ all Presidents of District Boards.
„ the Sanitary Engineer.
„ the Sanitary Commissioner for Madras.
„ the Sanitary Board.
„ the Public Department.
„ the Public Works Department.

Exd. A. Raitt.

Pass
Provin

6. An intercepting sewer or drain [illegible] as the rock is close to the surface all [illegible]nd the town and between it and the tank. The sewer would have, therefore, to be of a surface character. Drains are required in most of the streets, but the town slopes sharply from the main streets of the town and drainage is comparatively an easy matter.

7. I find, however, with so much work on hand that I cannot deal with this town at present, and I have asked the Chairman to omit the Rs. 300 in the revised estimate for 1891–92 and place it in the budget for 1892–93, by which time I hope that I shall have the staff of three Assistant Engineers sanctioned by Government, there will also be a subordinate in charge of Dindigul water-works, and I shall thus be able then to deal with the matter in a satisfactory manner.

8. I may mention, apart from drainage and water-supply, that the Chairman showed me a new village site which he has laid out and on which three houses had been built. The arrangements proposed seem capable of improvement. For instance, the streets should run with the slope of the ground and not on the level across it. The house-owners ought not to be allowed to dig pits adjacent to the house sites in order to obtain earth for the house walls. This plan invariably leads to insanitary conditions, and in this case I found municipal rubbish being deposited with the connivance of the house-owners in the pits—in fact, the houses would each eventually rest on an island of earth surrounded by a rubbish pit.

9. The earth for house walls should be obtained from what might become a village tank or from the side drains, &c. A latrine and a well should in all cases be constructed before any dwellings are erected.

10. I think it is desirable that an addition be made to the Sanitary Board's rules, that the plans of all village sites, whether there is to be any specific expenditure by the Municipality or not, should be submitted for approval.

11. I noticed also that the slaughter-house is a small enclosure of mud walls; it was full of people and apparently serves the purposes of a market.

12. Dr. Laing has lately been here, and no doubt has mentioned these and other sanitary defects which incidentally came to my notice.

13. In what way the necessary funds for carrying out the work of drainage and water-supply can be arranged for the Municipality might be called upon to report before further action is taken. The income is very small; the tax on arts, &c., and a water-supply tax seem the only further available sources of income, and about Rs. 80,000 would be required before any great improvements can be effected in the directions indicated.

No. 1025.

The Sanitary Engineer is requested to report whether the Rs. 80,000 referred to in paragraph 13 of his letter read above is the full amount required for the purposes mentioned, or whether it is exclusive of the half-grant which the Government usually makes in such cases.

(Signed) J. F. PRICE,
Chief Secretary.

FORT ST. GEORGE,
18*th November* 1891.

From the Sanitary Engineer to Government, dated Fort St. George, 19th November 1891, No. 1740.

ORDER—dated 5th January 1892, No. 19 M., Local and Municipal.

The proposals of the Sanitary Engineer will be referred to the Municipal Council, Palni, for report, with advertence to paragraph 13 of the first letter read above.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

READ—the following papers :—

From J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E., Sanitary Engineer to Government, to the Chief Secretary to Government, dated Cuddalore, 27th October 1891, No. 1551.

The Council of Palni (Madura district), being desirous of improving the water-supply and drainage of the town, provided in the budget of 1891–92 a sum of Rs. 300 for carrying out the necessary levels, and desired me to inspect the place. This, I have the honour to inform you, I did on the 23rd and 24th instant.

2. As to the water-supply I find that the inhabitants depend mainly on the Vaiyapuri kulam, which is fed by an irrigation channel some 3 miles in length from the Varratar river. This tank is dry during 4 months in the year, and in years of scanty rainfall, such as the past year has been, the inhabitants are very badly off for drinking water, as all the water found in the wells within, or adjacent to, the town site is brackish water. The tank lies below the town and into it all the drainage of the town passes, so that during rainfall and when the tank is filling, it is receiving at its shallow side polluted water from the town, and this is just the place whence the people take their supplies.

3. The tank surpluses at the west end of the town, and from a sluice in the anicut a supply is taken to a tank called the Teppacolum. The supply is, however, taken through the road drain, and the Teppacolum is a private tank from which water is baled for a flower garden, so that even this supply is, under existing circumstances, of little use.

4. It is, however, in few years that the tank does not surplus for some four months, and it will be possible to form a water-supply tank near the surplus weir and between it and another tank called the Naikkankulam. Arrangements could also be made to take the supply to the Teppacolum by a pipe, and if baling from it could be prevented and the people made to draw water by rope and pulley or if the water were so drawn by the Municipality and cisterns filled whence the people could draw water, it is likely by the execution of both these measures that, for the four months during which the large Vaiyapuri kulam is dry, a somewhat limited drinking supply would be obtained for the west end of the town. A supply for the east end of the town is a more difficult matter, but might probably be obtained by constructing a tank just outside the water-spread of the large tank and between it and the road. Whether this can be done I cannot, in the absence of levels, yet say.

5. To obtain the water in good condition and to preserve the purity of supply in the large Vaiyapuri kulam, the drainage must be cut off from discharging into the tank. Most of the town is situated on what might be called the prolongation of the tank bed, and on occasion of any moderate or excessive rainfall, all the filth collected, it may be for months, is at once washed into the tank.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 30th December 1891, No. 836 :—

MR. CLOGSTOUN.

Read—the following paper from R. SEWELL, Esq., Collector of Bellary, to the Secretary to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture, dated 22nd December 1891, R.P.R. No. 480 :—

FORTNIGHTLY NARRATIVE.

(*From 6th to 19th December* 1891, *Bellary district.*)

State of country.—During the fortnight I have been through some of the worst parts of the Alúr and Bellary taluks, from Buntanhal station through a succession of villages north of the line and across the Haggriviâ Moka to Bellary, and from Bellary to Gooliem in Alúr taluk, and thence to Alúr. All the middle section of Bellary and all the south of Alúr is dead waste, no mungari crop and almost certain loss of every field cropped with hingari crops. A little water here and there in tanks, but most tanks and kuntas empty. Wells have water, but wherever there is a tendency to brackishness this has become worse this year, and many of the wells are useless, even for cattle. Still there is sufficient water in wells wherever good-water wells exist, and the other village people have recourse to pits dug in the bed of streams. In other parts of the district, with the exception of Harpanahalli, insufficiency of water is not very noticeable. The country about Alúr near the hills is much better. It consists mostly of red soil and masab, and on these lands crops have yielded, though generally the outturn is poor. In a tract also east of Moka there is an outcrop of red soil in the midst of the black and there also there has been a fair yield and so along the Haggri banks and from Gooliem almost all the way to Alúr.

My estimate of the district is total loss in large parts of Bellary, Alúr and Hadagalli and the same in smaller parts of Adóni, Ráyadrug and bits of Harpanahalli; heavy loss, but not total, in parts of all taluks except Hospet. Poor outturn in most parts of all taluks except Hospet and in a small portion of the latter taluk. Fair outturn in small parts of Adóni, Alúr, Hospet, Ráyadrug, Kúdligi, Harpanahalli and good outturn in very small bits of Adóni, Alùr and in a large part of Hospet.

Fodder very scarce. Cholum-straw, the staple fodder, is selling at Rs. 6 to 10 (a cart-load). In the Head Assistant's division the price is now Rs. 8 as against 1 rupee in the corresponding part of last year. In the Bellary district the price of dry grass per bandy-load is from Rs. 4½ to 7 and of cholum stalk from Rs. 6 in the villages to Rs. 8 in towns. Bundles of cholum which in ordinary times were sold at 6 or 8 per rupee are now three times as dear.

In Adóni cholum stalk fetches Rs. 10 per bandy-load.

Grass is only procurable from hill reserves and immense quantities have been cut and carted from the Sandúr hills and leased forests. Cattle have been driven from villages to better grazing-grounds in other districts and to Mysore in large numbers. There is very little grass in most of our reserves, in some none at all, or only thatching grass of bad quality. Cattle are fed largely on all sorts of stuff—date leaves, stripped and bruised prickly-pear in places, and roof thatch and leaves of trees. Many of the withering fields of mungari crops are being cut for fodder. The ryots have even abandoned all hope of growing gram and are cutting it for fodder in many places.

Water-supply.—See under " state of country."

Agricultural operations.—The mungari crop is mostly harvested by now or cut for fodder. What labour there is is devoted to picking up last crop-stalks for fodder. No sowings, nuth grass is being removed here and there. Cooly hire is very scarce. What there is to do is nearly all done by the ryots and the members of the families, there being no occasion to call in outside labour.

Cattle.—I have seen as yet few emaciated cattle except here and there; their condition is, however, becoming weekly poorer. Most have been driven away and of those that remain the stall-fed beasts are doing fairly well at present. I anticipate a change for the worse in a few weeks. The price of cattle has fallen very seriously, this result being partly due to their poor condition. In Adóni and Yemmiganúr, they are being generally slaughtered for food and fetch in the open market only one-tenth of their normal price. In Bellary their price has fallen one-eighth to one-fourth. The number of hides brought to market in Bellary is many times the usual number while the fall in price has been considerable, *i.e.*, average 35 per cent. I am trying to push a scheme for feeding cattle on prickly-pear and another for getting grass from the Nallamalai hills in Kurnool.

General remarks.—No necessity for any thing further to be said.

Condition of people on works generally good, but I have seen some cases of *real emaciation* due to want of food.

Condition of people on villages.—I have not seen any bad cases as yet, but here and there, amongst the poor, men are to be seen looking emaciated and complaining. These are the men that are now on one meal a day and my reports show that this class is increasing.

Mortality.—None reported.

Sickness.—Cholera has appeared in two villages of Adóni taluk, but it cannot be regarded as an outbreak.

Remarks.—The principle on which I am working is to encourage all the laboring classes who cannot get work in their villages and must otherwise starve to come on the works, which are now being opened, with their wives and entire families; also to bring with them all those very aged or sickly persons who cannot work and cannot be maintained in the villages, so that all these may be relieved either by work or by the kitchens which must soon be started at the works, leaving in the villages only a few isolated cases of people who cannot get to the works and are unable to perform any labour, these being supported by the villagers themselves. I am telling the Reddies that I look to them to induce the residents of villages to care for these few bad cases, which they will be more likely to do than if there are a large number of people in the villages, all claiming support. It will seem to them, I think, quite legitimate that they should be called on to support a few people, but unreasonable to expect them to support a large number.

If this plan succeeds (I have my doubts and I am not over-sanguine) the State will be saved all the expense of general relief kitchens as opposed to kitchens on the works, and these being few in number will be more easily worked and worked at much less cost.

Since writing the above I have much pleasure in noting from the Tahsildar of Ráyadrug (which is one of the worst affected taluks) that about 200 aged and helpless persons were being supported by local subscription among the merchants to the extent of $\frac{1}{4}$ seer of ragi and 1 pie each per diem.

Relief measures—Relief works in what taluks open.—The following relief works were opened during the past fortnight on the dates mentioned against them:—

(*a*) *Daroji, Hospet taluk—December 15th.*—This work is for the benefit of Bellary taluk. The numbers present on 18th, the last day for which I have any information, were 269, being an increase of 54 over those present on the 17th and an increase of 106 as compared with the 16th.

(*b*) *Gundiganur, Bellary taluk—December 15th.*—Present on 19th, 233.

(*c*) *Chippigiri, Alúr taluk—December 15th.*—Present on 19th, 2,480. The numbers on this work have risen steadily from 1,900 on the first day.

(*d*) *Bommanhall, Ráyadrug taluk, December 19th.*—The numbers present were 394.

Variations from figures shown in season telegram are due to more recent returns having been received in the meantime and embodied in this report.

No deaths from want of food reported.

Remarks.—Relief measures have become absolutely necessary in Adóni, Alúr, Bellary, Ráyadrug and Hadagalli. I am trying to begin with tank works and works that will prove directly remunerative, but have been compelled to abandon some that were mentioned in the famine list of works (Civil Agency) as they were clearly proved to be of an unremunerative character. The minor irrigation works therefore that can now be put in hand are not very many in number and not sufficiently large to be of great use, now that distress is becoming general. There are only a few major irrigation works that can be carried out, and it is hoped that these will be fully executed. Some still await further investigation. It is therefore found necessary almost at once to fall back on Local Fund road works in many places, and these were begun in the worst tracts on the 15th and 20th December. Others will follow as necessity arises. In Adóni taluk I can find no work that will be within an easy reach of the west of the taluk which is badly affected, but have sent to the villages to tell the people that they must come to the works on the east of the taluk. This will probably suffice for the whole, seeing that the people are not yet in a condition of weakness or emaciation. After His Excellency the Governor's visit to Bellary on Tuesday last, the following works were ordered:—

	Name of work.
Adóni taluk	Road work at Nundavaram now in progress.
Alúr taluk	Road works at Chippigeri now in progress (The road work at Tekkalakota in Bellary taluk is available for the portion of Alúr taluk near there).
Bellary taluk	Road work at Tekkalakota will be opened on December 26th.
	2. Tank work at Gundiganur now in progress
	3. Tank work at Darogi in Hospet taluk now in progress is available for the part of Bellary near there People in the south can go to the Kanekal tank works in Ráyadrug taluk.
Ráyadrug taluk	Kanekal tank works will be opened on 26th December.
Hospet taluk	Daroji tank works now in progress.
Hadagalli taluk	Road works at Ittigi to be started about the beginning of January.

Loans.—A separate statement in the prescribed form will be sent.

Grain-supply.—Private trade is generally active and large imports are taking place. There is a great deal of grain now at the Bellary Railway station. The Superintendent of Police has put a guard over it. The imports are mostly dry staple grain (cholum) :—

State of market. Prices of principal food-grains.	Rice.	White cholum.	Yellow cholum.	Ragi.	Cumbu.	Rising at	Falling at	Stationary at	Remarks.
Bellary	8·64	12·88	13·39	14·07	11·28	Bellary	..	..	
Ráyadrug ..	8·10	12·88	13·39	13·58	..	Ráyadrug	..	..	
Hospet ..	7·56	14·42	14·94	17·46	13·30	Hospet	..	..	
Kúdligi ..	7·02	..	15·45	15·52	..	Kúdligi	..	..	
Hadagalli ..	7·56	..	15·45		..	Hadagalli	..	..	
Harpanhalli ..	8·10	..	14·42	19·40	16·92	....	..	..	Rise in rice and yellow cholum; fall cumbu, ragi.
Alúr	7·56	12·36	13·39	..	..	Alúr	..	..	
Adóni	8·10	12·36	13·39	..	12·35	Adóni	..	..	

Taluks and places visited by me.—In the previous fortnight I visited with Mr. Clogstoun six taluks, including Hospet, which we gave no particular attention to. In this fortnight I have visited Alúr and Bellary. Adóni is the only one I have not yet seen and I am going there after His Excellency the Governor's visit. This and the Revenue Settlement Commissioner's journey to Alúr has made me alter my plans, or I should have seen more villages.

Visited Kapgal, Basavapuram, Karichedu, Wonnanur, Basalakode, Gulyam, Amrithapuram, Tallur, Sidhapuram, Nitravathi, Bilehal, Alúr, Agraharam, Hattibelagal, Nagaradona, Arikera, Sungala, Nemkal, Beldona, Chippigeri and Dowlatapuram.

Resolution—dated 30th December 1891, No. 836.

Submitted for the information of Government.

2. The Collector now reports that it is only in small bits of Adóni and Alúr and the greater part of Hospet that the crops are good, though in a small portion of these three taluks and in Ráyadrug, Kúdligi and Harpanahalli there is a fair crop. Elsewhere there will be heavy but not total loss except in large sections of the Alúr, Bellary and Hadagalli taluks. On the lighter soils the crops are yielding some outturn, but on large extents of the heavy black cotton soil there is a total failure. Most of the early crop is already harvested and the only work going on the fields is the removal of the straw of standing crops or digging up *nuth* grass. Much of this work is being done by the ryots and affords no employment to the laborers.

3. Fodder is excessively dear and all sorts of expedients are being resorted to to eke out the supply. Very large amounts of grass have been cut on the Sandúr hills and in the forest reserves, and cattle are being driven away to grazing grounds, especially in Mysore, in large numbers. The better cattle still continue in fair condition, but the prospect daily becomes worse, and the value of cattle is falling rapidly. Every encouragement should be offered to the ryots to drive their cattle to the neighbourhood of, if not always into, reserves and forests where fodder and water can be found, as it will be far cheaper and easier to do this than to bring in supplies of fodder in large quantities by rail.

The Collector states that he is trying to introduce the system of feeding cattle on prickly-pear with a small addition of grass. The Commissioner relies on the Collector and Divisional officers giving their most earnest attention to this matter. Fifty head of valuable cattle, the property of M.R.Ry. Sabhapathi Mudaliar Avargal, the Chairman of the Municipal Commission, and one hundred head of Municipal cattle in hard daily work have for months past been fed on a daily ration of 20 lb. of prickly-pear and 8 lb. of hill grass, supplemented in the case of Mr. Sabhapathi's

cattle by 9 seers of cotton refuse, and in the case of the Municipal cattle by 9 seers of cotton refuse and 3 seers of oil-cake. Mr. Sabhapathi Mudaliar believes that cattle might be fed *entirely* on prickly-pear, provided they are not required to do hard work, and states that in 1878 the experiment was tried on a calf in Bellary which was found to have gained 3 lb. in weight at the end of one month. A complete set of instruments for preparing the prickly-pear, consisting of one pair of pincers, one pair of tongs and one knife can be purchased for two annas, and the taste for prickly-pear in cattle may be cultivated by sprinkling the leaf for the first two or three days with salt and gram powder.

4. Prices exhibited a further rise during the fortnight as shown in the following table :—

Stations.	Rice.		Cholum.		Cumbu.		Ragi.	
	5th.	19th.	5th.	19th.	5th.	19th.	5th.	19th.
Adóni	8·6	8·1	14·4	12·9	13·3	12·3	..	..
Alúr	8·1	7·6	16·5	12·9	..	..	..	..
Bellary	8·6	8·6	14·7	13·1	12·2	11·3	15·5	14·1
Ráyadrug	7·6	8·1	12·9	13·1	..	..	14·1	13·6
Hospet	8·1	7·6	17·0	14·7	15·2	13·3	17·5	17·5
Kudligi	7·6	7·0	16·5	15·4	..	..	16·5	15·5
Hadagalli	7·6	7·6	17·5	15·4	..	..	..	..
Harpanahalli	8·6	8·1	16·5	14·4	15·0	16·9	17·5	19·4
District average ..	8·0	7	15·3	13·6	13·9	13·5	16·2	16·0
Scarcity rates ..	9·7		13·7		13·1		14·7	

The price of cholum, the staple dry grain of the district, is now above the scarcity rate in all the eastern taluks, and has risen greatly in the western taluks. Trade is, however, active and large imports are taking place.

5. The condition of the poorer classes has begun to show signs of deterioration, and the Collector considers that relief works are absolutely necessary in the four eastern taluks and in Hadagalli. Four works have already been started to test the necessity for affording employment in Alúr, Bellary and Ráyadrug on which 3,376 persons were employed on the 19th current. Three of the works were started on the 15th and one on the 19th idem. A further work was opened in the Adóni taluk on the 20th, to which on the day of opening 1,000 people are said to have resorted. The tract affected contains very few useful irrigation works and resort must in general be had to road works for the purpose of relief. There is, however, an irrigation work—the Kanekal tank—in the Ráyadrug taluk which is in need of repair and work on this tank will be commenced at once in lieu of the work on the Bommanahal road.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
„ Collector of Bellary.

Copy to the Government of India, Revenue and Agricultural Department
„ „ Collectors of affected districts.

ORDER—dated 11th January 1892, No. 34, Revenue.

Miscellaneous. Recorded.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
,, the Public Works Department.

Exd. A. Aubert.

70 Copies.

Govt. of {1892} Madras.

REVENUE.

No. 220 W dy 22d Jany 92

Cond to the S.E.

" III Circle for information

Issued.

Recd. Encl.

G.O., 11th January 1892, No. 34.

JANUARY.

Season, Bellary.

Board's Proceedings submitting report of the Collector on the state of the season in the district for the fortnight ending 19th December 1891, recorded.

L.E. III

C.E. for S

ANNEXURE.

Revised standard design for a Sub-Registrar's office with terraced roofing.

Descriptive Specification.

Foundations.—A depth of 4 feet is provided in the estimate, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond two bricks thick, verandah wall one brick thick.

Stone-work.—The stone-slabs under verandah posts should measure $10\frac{1}{2}'' \times 10\frac{1}{2}'' \times 6''$ with mortice holes 2″ square and 2″ deep, into which the posts will be tennoned. The steps may also be of stone-slabs, if easily procurable.

Wood-work.—The verandah posts, bressummers and joists should be of Burma or Indian teakwood, well seasoned.

Doors.—Provide a venetian and panel door for the entrance and a strong battened door for the record room (according to the detail shown in the plan for tiled roofing), both doors to be provided with a good Europe rim lock.

Windows.—Venetian windows to be provided for the office and windows with glazed inner shutters, battened outer shutters and iron bars, $\frac{3}{4}$ inch square, set diagonally, for the record room. The sills of all windows should slope outwards with a small opening under the frame to allow water to flow out. All doors and windows to be provided with strong iron bolts and hinges and hooks for fastening when opened, and the venetians to have wooden buttons for securing when closed.

Sun-shades.—Sun-shades to be provided for each of the end windows of the office.

Roofing.—The roofing of the office and record room will be of "pucka terracing," care being taken that proper slopes are made for drainage towards the weep-holes, which will have shoots made with redwood or teakwood projecting at least 2 feet from the face of the wall. The verandah roof will be of Bengal terrace or of Mangalore tiles, where they are easily obtainable.

Flooring.—The floor may be of square bricks or stone-slabs, if the latter are easily procurable. The record room should be floored with asphalte, $\frac{3}{4}$ inch thick.

Interior and exterior finishing.—The interior of the building should be plastered and rubbed smooth or plastered and whitewashed. Where good bricks or stone is available, the exterior should be pointed, otherwise plastered.

If the soil is damp, river sand to a depth of 1 foot at least should be laid below the flooring, and the interior walls to a depth of about 3 feet all round plastered with Portland cement half an inch thick. The exterior plinth should also be plastered with cement.

Painting.—The roof timbers, sun-shades, doors and windows to be painted with three coats of Carson's oak paint.

Ventilation.—Holes to be left between the joists measuring $4'' \times 6''$ sloping outwards and closed with wire-netting of $\frac{3}{4}$ inch mesh to prevent birds and bats entering.

(Signed) J. W. BRASSINGTON,
Consulting Architect to Government.

Detail measurements.

Detail of work.	Number.	Measurements in feet.			Area of contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
		FT. IN.	FT. IN.	FT. IN.		
Excavation for foundations—						
Outer walls	...	108 0	3 6	4 0	} 1,855	
Cross wall	1	24 6	3 6	4 0		
Verandah wall	...	35 6	2 $4\frac{1}{2}$	4 0	337	
Steps	...	12 0	3 6	1 0	42	
					C. feet.	2,234

Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Earth filling in basement—						
Record room	1	25 6	12 0	1 6	747	
Clerks' do.	1	16 0	12 0	1 6	285	
Registrar's room	1	9 6	12 0	2 6	211	
Verandah	1	24 6	5 9	1 6		
					C. feet.	1,243
Concrete—						
Outer walls...	1	108 0	3 6	1 6	696	
Cross wall		24 6	3 6	1 6	126	
Verandah wall		35 6	2 4½	1 6	42	
Steps		12 0	3 6	1 0		
					C. feet.	864
Brick-work in foundations and basement—						
Outer walls footing course		108 0	2 7½	1 6	522	
Cross wall do.		24 5½	2 7½	1 6	82	
Verandah wall do.		36 5½	1 6	1 6	749	
Outer wall above footing course... ...		108 0	1 10½	3 0		
Cross wall do.		25 1⅓	1 10½	3 0	84	
Verandah wall do.		37 1½	0 9	3 0	4	
Steps do.	1	7 6	1 0	0 6	10	
Do. do.	1	9 6	2 0	0 6	17	
Do. do.	1	11 6	3 0	0 6		
					C. feet.	1,468
Brick-work in superstructure—						
Outer walls		108 0	1 6	13 0	2,106	
Cross wall	1	25 6	1 6	13 9	526	
Parapet		109 6	1 1½	1 0	123	
Coping		117 0	0 9	0 9	66	
						2,821
Deductions—						
Doors	2	4 0	1 6	8 0	96	
Windows	8	3 6	1 6	5 0	210	
Arch-work as per details ...		...	...	...	86	
						392
					C. feet.	2,429
Arch-work over doors and windows—						
Over doors	2	5 6	1 6	1 1½	86	C. feet.
Windows	8	5 0	1 6	1 1½		
Stone-work—						
Under posts	4	0 10½	0 10½	0 6	2	C. feet.
Teakwood wrought and put up—						
Joists	42	13 6	0 3	0 7	83	
Verandah posts	4	0 6	0 6	7 6	8	
Do. bressummers	1	28 0	0 6	0 6	7	
Do. rafters	22	8 6	0 3	0 4	16	

Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Teakwood wrought and put up—*cont.*						
Verandah pieces at ends	2	7 0	0 3	0 4	1	
Do. planks at ends ...	2	7 0	0 1	1 6	2	
Railing in clerks' room—						
Hand rail	1	9 6	0 3	0 2⅓	1	
Bottom piece	1	9 6	0 3	0 2½		
Uprights	17	3 0	0 1½	0 1½	1	
Do. at end	1	3 6	0 3	0 3		
					C. feet.	119
Venetian and panel door with frames, &c., complete	1	4 0	...	8 0	32	S. feet.
Batten door with frames complete ...	1	4 0	...	8 0	32	S. feet.
Venetian windows with frames complete—						
For office	2	3 6	...	5 0	35	S. feet.
Venetian windows with frames and glazed inner shutters complete ...	2	3 6	...	5 0	35	S. feet.
Batten windows with frames, iron bars ¾″ square and inner glazed shutters complete—						
For record room	4	3 6	...	5 0	70	S. feet.
Galvanised iron wire-netting to cover holes between joists...	40	0 6	...	0 8	13	S. feet.
		2 in number.				
Sun-shades complete						
Terrace roofing—						
For office and record room ...	1	27 0	...	27 0	729 Squares.	S. feet. 7·29
Bengal terrace—						
For verandah	1	27 6	...	8 0	220 Squares.	S. feet. 2·20
Plastering with chunam interior walls—						
Office and record room	2	75 0	...	9 0	1,350	
Door jambs	2	14 0	...	1 6	42	
Window jambs	8	17 0	...	1 6	204	
Top of parapet	...	109 0	...	1 3	136	
Inside of parapet	...	104 0	...	1 0	104	
						1,836
Deductions—						
Doors	3	4 0	...	5 0	60	
Windows	8	3 6	...	5 0	140	
						200
					S. feet.	1,636
					Squares.	16·36
Plastering with Portland cement ½ an inch thick—						
Office and record room	2	75 0	...	3 0	450	
Plinth exterior	...	128 0	...	2 3	288	

Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Plastering with Portland cement ½ an inch thick—*cont.*						
Sides of steps	2	2 0	...	1 6	6	
Door jambs	2	6 0	...	1 6	18	
						762
Deduct—						
Doors	3	4 0	...	3 0	...	36
					S. feet.	726
					Squares.	7·26
Pointing exterior—						
Walls	...	114 0	...	15 6	...	1,767
Deduct—						
Door	1	4 0	...	8 0	32	
Windows	8	3 6	...	5 0	140	
						172
					S. feet.	1,595
					Squares.	15·95
Flooring with 8 inches square bricks—						
Office	1	25 6	...	12 0	306	
Door piece	1	4 0	...	1 6	6	
Verandah	1	26 0	...	6 6	169	
Steps	1	11 6	...	3 0	35	
					S. feet.	516
					Squares.	5·16
Flooring with asphalte ¾ inch thick over a bed of concrete 4 inches thick—						
Record room	1	25 6	...	12 0	306	
Door piece	1	4 0	...	1 0	4	
					S. feet.	310
					Squares.	3·10
Painting with three coats—						
Joists	42	13 6	...	1 5	803	
Verandah posts	4	2 0	...	7 6	60	
Bressummers	1	27 6	...	2 0	55	
Rafters	22	8 6	...	1 3	234	
Planking at ends	2	7 0	...	3 0	42	
Railing	1	18 0	...	3 0	54	
Venetian and panel door ...	3	4 0	...	8 0	96	
Batten door	2	4 0	...	8 0	64	
Venetian windows ... 4 ×	2	3 6	...	5 0	140	
Do. with glazed shutters 5 ×	2	3 6	...	5 0	175	
Batten windows with glazed shutters and iron bars ... 4 ×	4	3 6	...	5 0	280	
Sun-shades	4	5 0	...	5 0	100	
Do.	2	2 0	...	2 0	8	
					S. feet.	2,111
					Squares.	21·11

ABSTRACT.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
		RS.		RS.	RS.
			1,000 C. ft.		
2,234 C. feet.	Excavation for foundations ...		,,		
1,243 ,,	Earth filling in basement		100 C. ft.		
864 ,,	Concrete in foundations				
1,468 ,,	Brick-work in foundations and basement		,,		
			,,		
2,429 ,,	Brick-work in superstructure ...		C. ft.		
86 ,,	Arch-work		,,		
2 ,,	Stone-work under posts				
119 ,,	Teakwood wrought and put up ...				
32 Sq. ft.	Venetian and panel door with frames, hooks and rim lock, complete		Sq. ft.		
			,,		
32 ,,	Batten door do do. ...				
25 ,,	Venetian windows with frames, hooks, &c., complete		,,		
35 ,,	Venetian windows with frames and glazed inner shutters, hooks, &c., complete		,,		
70 ,,	Battened windows with frames, iron bars and inner glazed shutters, hooks, &c., complete		,,		
			,,		
13 ,,	Galvanised iron wire-netting ...		Each.		
2 No.	Sun-shades		Square.		
7·29 Sqs.	Terrace roofing		,,		
2·20 ,,	Bengal terrace				
16·36 ,,	Plastering interior walls with two coats of chunam		,,		
7·26 ,,	Plastering with Portland cement ½ an inch thick		Square.		
15·95 ,,	Pointing exterior walls		,,		
5·16 ,,	Flooring with 8 inches square bricks laid in mortar over a levelling course of wall bricks		,,		
3·10 ,,	Flooring with asphalte ¾ inch thick over a bed of concrete 4 inches thick		,,		
21·11 ,,	Painting with three coats of Carson's paint		,,		
	Petty supervision at 2½ per cent.		,,		
	Contingencies at 5 per cent. ...				
	Grand Total of estimate ...				

MADRAS,
8th June 1888.

(Signed) J. W. BRASSINGTON,
Consulting Architect to Government.

Revised standard design for a Sub-Registrar's office with tiled roofing.

Descriptive Specification.

Foundations.—A depth of 4 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond 2 bricks thick, verandah wall 1 brick thick.

Stone-work.—The stone-slabs under verandah posts should be 10½″ × 10½″ × 6″ with mortice holes 2 inches square and 2 inches deep into which the posts will be tennoned. The steps may also be of stone-slabs if easily procurable.

Wood-work.—The verandah posts should be of Burma or Indian teakwood, well seasoned. The rafters and other roof timbers may be of approved country wood.

Doors.—Provide a venetian and panel door for the entrance and a strong battened door for the record room, both doors to be provided with a good Europe rim lock.

Windows.—Venetian windows to be provided for the office, and windows with glazed inner shutters, battened outer shutters, and iron bars ¾ inch square set diagonally for the record room. The sills of all windows should slope outwards with a small opening under the frame to allow water to flow out. All doors and windows to be provided with strong iron bolts and hinges and hooks for fastening when opened and the venetians to have wooden buttons for securing when closed.

Sun-shades.—Sun-shades to be provided for each of the end windows of the office.

Roofing.—The roof will be of the usual flat and pan-tiles or Mangalore tiles; in the latter case, the rafters should be spaced about 2′ 6″ apart centre to centre and a ceiling of ½ inch planking provided.

Flooring.—The floor may be of square bricks or stone-slabs if the latter are easily procurable. The record room should be floored with asphalte ¾ inch thick.

Interior and exterior finishing.—The interior of the building should be plastered and rubbed smooth or plastered and whitewashed. Where good bricks or stone is obtained, the exterior should be pointed, otherwise plastered.

If the soil is damp, river sand to a depth of 1 foot at least should be laid below the flooring, and the interior walls to a depth of about 3 feet all round plastered with Portland cement half an inch thick. The exterior plinth should also be plastered with cement.

Painting.—The roof timbers, sun-shades, doors and windows to be painted with three coats of Carson's oak paint.

Ventilation.—For ventilation, the spaces between the rafters measuring about 15″ × 6″ and sloping outwards may be left open and galvanised iron wire-netting of ¾ inch mesh nailed in between to prevent birds and bats entering.

(Signed) J. W. BRASSINGTON,
Consulting Architect to Government.

Detail measurements.

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Excavation for foundations—						
Outer walls		108 0	3 6	4 0	} 1,855	
Cross wall	1	24 6	3 6	4 0		
Verandah wall		35 6	2 4½	4 0	337	
Steps		12 0	3 6	1 0	42	
					C. feet.	2,234
Earth filling in basement—						
Record room		25 6	12 0	1 6	} 747	
Clerks' room		16 0	12 0	1 6		
Registrar's room		9 6	12 0	2 6	285	
Verandah		24 6	5 9	1 6	211	
					C. feet.	1,243
Concrete—						
Outer walls		108 0	3 6	1 6	} 696	
Cross wall	1	24 6	3 6	1 6		
Verandah wall		35 6	2 4½	1 6	126	
Steps		12 0	3 6	1 0	42	
					C. feet.	864
Brick-work in foundations to floor level—						
Outer wall footing course		108 0	2 7½	1 6	} 522	
Cross do. do.		24 5½	2 7½	1 6		
Verandah do. do.		36 5½	1 6	1 6	82	
Outer wall above footing course.. ...		108 0	1 10½	3 0	} 749	
Cross wall		25 1½	1 10½	3 0		

Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Brick-work in foundations to floor level—*cont.*						
Verandah wall above		37 1½	0 9	3 0	84	
Steps		7 6	1 0	0 6	4	
Do.		9 6	2 0	0 6	10	
Do.		11 6	3 0	0 6	17	
					C. feet.	1,468
Brick-work in superstructure—						
Outer walls		108 0	1 6	12 6	2,025	
Cross wall	1	25 6	1 6	21 6	822	
Gables	2	28 6	1 6	4 9	406	
						3,253
Deductions—						
Doors	2	4 0	1 6	8 0	96	
Windows	8	3 6	1 6	5 0	210	
Arch-work as per details... ...		...	...	...	86	
						392
					C. feet.	2,861
Arches over doors and windows—						
Over doors	2	5 6	1 6	1 1½	} 86	C. feet.
Windows	8	5 0	1 6	1 1½		
Stone-work—						
Under posts	4	0 10½	0 10½	0 6	2	C. feet.
Wood-work—						
Wall-plates	3	26 0	0 4	0 3	7	
Rafters	36	18 6	0 3	0 7	97	
Railing in clerks' room—						
Hand rail	1	9 6	0 3	0 2½	} 1	
Bottom piece	1	9 6	0 3	0 2½		
Uprights	17	3 0	0 1½	0 1½	} 1	
Do. at end	1	3 6	0 3	0 3		
Verandah—						
Posts	2	0 6	0 6	8 0	} 7	
Do.	2	0 6	0 6	6 6		
Brackets	2	1 0	0 6	0 4	} 1	
Do.	2	0 7½	0 6	0 6		
Bressummers	2	10 0	0 6	0 6	5	
Do. piece at ends ...	2	7 0	0 3	0 4	1	
Valley rafters	2	11 0	0 3	0 5	} 3	
Do. ridge	1	8 6	0 3	0 5		
Rafters	16	9 6	0 2½	0 4	} 15	
Do. small rafters	10	6 0	0 2½	0 4		
		average length.				
Collar piece	1	6 0	0 3	0 3	} 1	
Finial	1	4 6	0 3	0 3		
Barge planks	2	7 0	0 6	0 1	1	
Do.	2	2 6	1 6	0 1	1	
Planking at ends	2	7 0	0 1	2 6	3	
					C. feet.	144
Venetian and panel doors with frames complete	1	4 0	...	8 0	32	Sq. feet.

Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Batten door with frames complete ...	1	4 0	...	8 0	32	Sq. feet.
Venetian windows with frames complete for office	2	3 6	...	5 0	35	Sq. feet.
Venetian windows with glazed inner shutters for office	2	3 6	...	5 0	35	Sq. feet.
Batten windows with frames, iron bars, and inner glazed shutters for record room	4	3 6	...	5 0	70	Sq. feet.
Galvanised iron wire-netting between joists	2	26 0	...	0 8	35	Sq. feet.
Sun-shades		2 in number.				
Tiled roofing—						
Office and record room	2	29 6	...	37 6	2,213	
Verandah	1	22 9	...	8 0	} 242	
Do.	1	7 6	...	8 0		
					Sq. feet.	2,455
					Squares.	24·55
Plastering—						
Office and record room	2	75 0	...	14 6	2,175	
Door jambs	2	14 0	...	1 6	42	
Window jambs	8	17 0	...	1 6	204	
Deductions—						2,421
Doors	3	4 0	...	5 0	60	
Windows	8	3 6	...	5 0	140	
						200
					Sq. feet.	2,221
					Squares.	22·21
Plastering with Portland cement ½ an inch thick—						
Office and record room	2	75 0	...	3 0	450	
Door jambs	2	6 0	...	1 6	18	
Plinth exterior	...	128 0	...	2 3	288	
Sides of steps	2	2 0	...	1 6	6	
					Sq. feet.	762
					Squares.	7·62
Pointing exterior—						
Walls		114 0	...	12 0	1,368	
Gables	2	28 6	...	4 9	271	
Deduct—						1,639
Door	1	4 0	...	8 0	32	
Windows	8	3 6	...	5 0	140	172
					Sq. feet.	1,467
					Squares.	14·67

Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
		FT. IN.	FT. IN.	FT. IN.		
Flooring with 8 inches square bricks—						
Office	1	25 6	...	12 0	306	
Door piece	1	4 0	...	1 6	6	
Verandah	1	26 0	...	6 6	169	
Steps	1	11 6	...	3 0	35	
					Sq. feet.	516
					Squares.	5·16
Flooring with asphalte ¾ inch thick over a bed of concrete 4 inches thick—						
Record room	1	25 6	...	12 0	306	
Door piece	1	4 0	...	1 0	4	
					Sq. feet.	310
					Squares.	3·10
Painting with three coats of Carson's paint—						
Rafters	36	18 6	...	1 5	944	
Railing	...	18 0	...	3 0	54	
Verandah—						
Posts	2	2 0	...	7 6	} 54	
Do.	2	2 0	...	6 0		
Brackets	2	1 0	...	1 3	3	
Do.	2	1 0	...	1 6	3	
Bressummers	2	10 0	...	2 0	40	
Piece at end		7 0	...	0 6	7	
Valley rafter and ridge	...	30 0	...	1 0	30	
Rafters	...	212 0	...	0 10⅓	186	
Collar piece and finial	...	10 6	...	1 0	11	
Planks	2	7 0	...	1 1	15	
Do.	4	2 6	...	1 6	15	
Do.	4	7 0	...	2 6	70	
Venetian and panel door ...	3	4 0	...	8 0	96	
Batten door	2	4 0	...	8 0	64	
Venetian windows ... 4 × 5 ×	2	3 6	...	5 0	140	
Do. with glazed shutters	2	3 6	...	5 0	175	
Batten windows with shutters and iron bars ... ... 4 ×	4	3 6	...	5 0	280	
Sun-shades	4	5 0	...	5 0	100	
Do.	4	2 0	...	2 0	16	
					Sq. feet.	2,303
					Squares.	23·03

ABSTRACT.

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
		RS.		RS.	RS.
2,234 C. feet.	Excavation for foundations ...		1,000 C. feet.		
1,243 „	Earth filling in basement		„		
864 „	Concrete in foundations		100 C. feet.		
1,468 „	Brick-work in foundations and basement		„		
2,861 „	Brick-work in superstructure ...		„		
86 „	Arch-work		„		
2 „	Stone-work under posts		C. feeet.		
144 „	Teakwood wrought and put up ...		„		
32 Sq. feet.	Venetian and panelled door with frames, hooks and rim lock, complete		Sq. feet.		
32 „	Batten door with frames, hooks, and rim lock, complete		„		
35 „	Venetian windows with frames, hooks, &c., complete		„		
35 „	Venetian windows with frames and glazed inner shutters, hooks, &c., complete		„		
70 „	Battened windows with frames, iron bars, and inner glazed shutters, hooks, &c., complete		„		
35 „	Galvanised iron wire-netting fixed.		„		
2 No.	Sun-shades		Each.		
1348 24·55 Squares.	Tiled roofing with flat and pan-tiles and teak reepers		Square.		
22 21 „	Plastering interior walls with two coats of chunam		„		
7·62 „	Plastering interior walls with Portland cement ½ an inch thick ...		„		
14·67 „	Pointing exterior walls		„		
5·16 „	Flooring with 8-inch square bricks laid in mortar over a levelling course of wall bricks		„		
3·10 „	Flooring with asphalte ¾ inch thick over a bed of concrete 4 inches thick		„		
23·03 „	Painting with three coats of Carson's paint		„		
	Petty supervision at 2½ per cent.		„		
	Contingencies at 5 per cent ...		„		
	Grand Total of Estimate ...				

MADRAS,
8th June 1888.

(Signed) J. W. BRASSINGTON,
Consulting Architect to Government.

Jud Dr. 2347 70
2

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From J. W. BRASSINGTON, Esq., Consulting Architect to the Government of Madras, to the Chief Engineer, Public Works Department, dated Chepâk, 8th June 1888, No. 414.

With reference to the orders of Government marginally noted, I have the honor to submit revised standard designs for Sub-Registrars' offices, with tiled roof and terraced roof, with specifications and schedules of quantities.

G.O. No. 879 W., dated 16th March 1888.
„ „ 1333 W., „ 7th May „

No. 334 D.

Forwarded for the approval of Government in the Judicial Department.

OOTACAMUND,
16th June 1888.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Referred to the Inspector-General of Registration for remarks.

(By Order.)

(Signed) A. G. CARDEW,
Ag. Under-Secretary.

22nd June 1888.

From G. HAMNETT, Esq., Inspector-General of Registration, to the Chief Secretary to Government, dated Madras, 28th June 1888, G. No. 2700.

With reference to endorsement, Judicial, (returned with plans and papers), dated the 22nd June 1888, on a letter from the Consulting Architect to the Government, submitting revised designs for Sub-Registry offices with tiled roof and terraced roof, I have the honor to state that the accommodation provided in the revised design is precisely the same as that provided in the design sanctioned in 1885, and that so far as departmental needs are concerned, I have no remarks to make.

2. As regards artistic appearances, I am no judge, but I should not omit to mention, for the information of the Government, that in the tiled roof design the "dormer" has been omitted, apparently because it was difficult to build, and still more difficult to keep from leaking.

3. The terraced roof design is about the same. It is to be hoped that wherever this design is adopted by the Public Works Department, the terrace will be carefully and substantially built to prevent it from leaking.

4. The estimate for the two designs does not make provision for any lightning conductors. They may, or may not, be required in some places.

Transferred to the Public Works Department with papers received under endorsement No. 334 D., dated 16th June 1888, returned, and with an intimation that Government in this department approve of the revised type-designs.

(By Order.)

(Signed) A. G. CARDEW,
Ag. Under-Secretary.

7th July 1888.

Order—dated 21st July 1888, No. 2230 W., Public Works.

The revised type-designs, with descriptive specifications and estimates of quantities for Sub-Registrars' offices will be circulated to officers of the Public Works Department in supersession of previous type-designs for similar buildings.

2. Lightning conductors are not considered necessary for these buildings.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Judicial Department.

Exd. F. R. Bantleman.
Spare Copies

Encl in R. 739

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated July, 21*st*.

Recd. *Encl.*

G.O., 21st July 1888, No. 2230 W.

JULY.

Jud Rec 2347 90
1

Type-designs

Circulating the revised — with descriptive specifications and estimates of quantities for Sub-Registrars' offices in supersession of previous type-designs.