

Local & Munl. (1898) Department.

MISCELLANEOUS.

G.O., No. 218 P.

DATED 17-3-98

INDEXED. *Li*

DESPATCHED

[Despatch Abstract.]

Bubonic Plague Awaiting the ^{submission of} site plans of the
Tungabhadra camps, and requesting the
Sanitary Commissioner to expedite the
revised plan for plague hospitals called
for in G.O. No. 2755 undy 9-12-97

SA *10/10*

BACK PAPERS.

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

FURTHER PAPERS.

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

Local & Munl. (1898) Department.

CURRENT No. 2408

From
The Sanitary Commission
for Madras

Order No 218 P. mis. dt 17. 3. 98

The site plans of the
Jungabhadra Camps are
awaited.

No. 570
S

Dated 10th March 1898.

Received 9th

Registered 11th March '98

Enclosures one

Spare copies.

2. The Sanitary Com^r is
requested to expedite the
Submission of the revised plan
called for in G.O. No 2755 dt
4.9.12.97.

[Signature] 38

SUBJECT.

Forwarding for information
a copy of his letter No 569
dated 10.3.98 to the Collector
of Ballary. ^{requesting him to} ~~requesting him to~~
~~prepare full site plans of the camp~~
~~the circumstances stated above~~
~~at Jungabhadra and forward them for~~
~~Submission to Government for~~
~~for plague control~~ ^{submission}
for approval as standard plans.

[Signature]
3/3/98
To The Sanitary Com^r: P.O.
dt- 17/3/98

11/1/98 12/1/98
SA mkb

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

[2,000-18-2 98.]

No. 569
S

OFFICE OF SANITARY COMMISSIONER,
Fort St. George, 10-3. 1898.

From
SURGEON-LIEUT.-COL. W. G. KING, M.B., C.M., D.P.H.,
SANITARY COMMISSIONER FOR MADRAS,

To
THE
Collector of
Bellary.

Enclosure.

SIR,
With reference to our recent inspection of the site of the proposed plague camp and hospital at Tungabhadra, I have the honour to inform you that before leaving Mr Cooper, the District Board Engineer, was in a position to inform me that the proposed plague Hospital and Camp would cost about Rs 10,000. Of course this sum did not make allowance for the fact that the material would be obtained from the Forest Department and that other material would be used from existing sheds. The sum however is sufficiently heavy to dictate the advisability of your requiring that suggested by me to you verbally, the alternative plans be fully estimated for, so to ascertain before ultimate decision

for five persons, at 30 cubic

Encl.
C. No 2409

to what can be dispensed with in the interests of economy.

2 Your Engineer is now proceeding with the "Suspect Camp", where it is not likely any economy can be suggested; but in the case of the plague hospital Camp, which is necessarily the more expensive, details might be scrutinized by me with the object of my ascertaining how far any structure might be dispensed with. For example, as an instance of possible economy, it has occurred to me that corrugated iron need only be used for the roofs of the kitchens, and that mud built walls might suffice, if the Engineer be of opinion that he could build them in quick enough time as this form of wall takes usually a long time to consolidate.

As this is the first complete Camp that has been attempted in this Presidency, it would save much trouble in future if you would require your Engineer to make full plans including site plans, and sections showing structure, as quickly as the urgent nature of his present duty has passed. It is my intention to submit these plans to Government approval as standard plans.

I have etc.
(Sd) W. G. King
Surgeon-Lieut. Col.
Sanitary Commissioner, Madras.

The Cook houses were constructed of corrugated iron, both roof and sides, on wooden framings (Bombay Standard).

Fort St. George, No. 1771. 1898.
LOCAL & MUNICIPAL DEPARTMENT
CURRENT No. 2408

From
SURGEON-LIEUT. COL. W. G. KING, M.B., C.M., D.P.H.,
SANITARY COMMISSIONER FOR MADRAS,
To
The
Secretary to Government
Local and Municipal Department

Enclosure.

SIR,
I have the honour to forward herewith a copy of my letter No. 569/S dated 10th March 1898, to the collector of Bellary, for the information of Government.

I have the honour to be
Sir
Your most obedient servant
W. G. King
Surgeon-Lieut. Col.
Sanitary Commissioner for Madras

cubic

2 DAPEDS.

Local & Munl.

(1898)

Department

CURRENT No. 213.P

(Copy)

From

The Sanitary Commissioner
Madras

No. 559.S.

Dated 9th March 1898

Received 9th March 1898.

Registered

Enclosures

Spare copies

SUBJECT.

Observation Stations: Submitting
report of his inspection of the proposed
site for the new frontier railway
Observation station at the Tunga-
badra Station as well as the existing
observation stations at Arkona
and Hospet.

Inspection report of the Sanitary
Commissioner on Plague duty.

Tungabhadra observation station

I met the Collector of Bellary Dt.
and the Local Fund Engineer, Mr. Cooper at
Guntakal on the 2nd March, and was accom-
panied by them to Tungabhadra railway station
where we selected during the evenings and
mornings of the 2nd, 3rd and 4th March, places
suitable for "a suspect camp" for ^{150 natives, a "Suspect Camp" for} 4 Europeans
a plague camp for Europeans
and 16 natives, a camp for the railway ins-
pecting staff and a disinfection station. The
respective positions selected are exhibited
on the accompanying sketch plan. The sites
are not without certain possible disadvantages
with reference to drainage into water courses
but every care has been taken to secure the
best site available under the circumstances.
The soil is red grading into black. The
camps have been placed on red soil as
far as possible. For the "suspect camp"
the huts will be built so as to afford
accommodation for five persons, at 30
cubic

* to follow

cubic feet per head. This allowance is exceedingly small, but having regard to the fact that new arrivals will be given accommodation separate from others, it is unlikely that many huts at one time will be occupied to an extent to reduce the available cubic space per head to this minimum. Each hut can be readily burnt or removed without unnecessary expenditure, and with the least danger to the neighbourhood. With this object and also with reference to facility of perfumation and guarding, the whole camp has been arranged in a triangular form with the open base towards the prevailing wind.

2. For the Plague hospital, 2000 cubic feet per head has been allowed that amount being the minimum which is given in any "isolation Hospital" of the present day and moreover being the minimum that can be regarded as feasible in treatment of plague, where free ventilation

ventilation is desirable - both on account of the patient and the safety of the attendants. Ventilation has been arranged for by keeping a space of $2\frac{1}{2}$ feet open at the eaves. It has not been possible to adopt the Bombay pattern which was lately approved of by Govt. as the span of 24 feet required would prove very expensive. Beds in single rows have therefore been arranged for with 12 feet square space, plus 4 feet for administration purposes, or a total breadth of 16 feet - thus increasing somewhat the cubic space stated above.

3. It is of course advisable that all surfaces liable to be stained by excretions and secretions should be of a nature rendering them capable of ready disinfection. For this reason surfaces required for bathing for receipt of urine and faeces (latrines) and for nursing of the sick should

undoubtedly have impervious surfaces. Such surfaces can be done without if removal be pursued, or disinfection be careful and frequent; but as it cannot be hoped that this station can be done away with entirely (possibly for two years to come) the necessity for correct provision in what is really likely to be a semi-permanent arrangement, is obvious. In short what might suit well enough in a quickly made temporary camp in an already infected area is not here desirable, when attempting the requirement of keeping out plague. I am, however, aware that Govt holds strongly that economy must be studied in this matter and objects to expenditure for impervious surfaces. I therefore in consultation with the Collector, whilst pointing out that provision of the nature described is sanitarily desirable, informed him that as to adoption of this part of the

Govt has approved of the Bombay pattern (Mr. James C.I.R.) in which corrugated iron is employed for the Kitchens and impervious surfaces for latrines and bathing platforms.

design he should be guided by an examination of the total expenditure required. So far as a rough estimate on the spot I would allow it to be realized the provision of impervious surfaces would add to the total expenditure about one fifth in the case of the plague camp, and considerably less in the case of other camps. It seems probable in this connection that suitable slabs could be obtained from Shahabad by rail. I have, therefore, advised that the estimate should be prepared for alternative designs for ultimate choice:—

- (1) Plague hospital sheds, bathing and disinfecting platforms, and latrines to have impervious surfaces.
- (2) Disinfecting shed and all bathing platforms and latrines at plague camp to have impervious surfaces.
- (3) Disinfecting shed and plague camp latrines to have impervious surfaces.

imperious surfaces throughout the Camps.

4. All buildings are to be made of bamboos and matting with Cadjan or grass roofing. Gravel ^{floors} ~~roofs~~ are to be used in all positions other than suggested in the preceding paragraph.

5. It has been necessary to advise the sinking of two wells: one for the Suspect Camp and railway inspecting staff, and one for the plague camp. The water will be lifted by pumps to suitable iron tanks and will be delivered by taps for the grand division of Castes.

* Each tank with cost from Rs 45 to 60.

6. Places for cremation and for disposal of infected faecal matter have been pointed out.

7. In the event of the establishment of steam disinfection, a special locality has been assigned for this purpose.

8. The erection of these camps is being effected with the utmost energy, so that I trust within ten days the camp will be fit for use.

* The suspect camp is in progress.

When given for copying _____
When copied _____
When examined _____
When signed 17/3 } 189 .

REAR GAIN G.O., No. _____, DATED _____
189 ,

CURRENT No. _____

ENCLOSURES TO C. No. _____

ORDER OF GOVERNMENT A A A A A A A

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILLED UP, BRING MEANT FOR DESPATCH
IN ORIGINAL.

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