Public Works (1897) Department.

G.O., No. 1829 W

DATED 5 July 1897

9/7/97

[Despatch Abstract.]

Preparation of Specifications and Schedules for Sanitary Works. Approving the procedure proposed in Memorandum No. 2165 C. of 14 April 1897 in regard to the —, and directing its adoption in future.

2/10/14

[P.W. 26. / 500—30-11-96.]

20/5.7.97

Indexed. 7/7

BACK PAPERS.

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

FURTHER PAPERS.

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

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1897} of Madras.
PUBLIC WORKS.

Recd. } 1897. *Enclosures*
Regd. } *Spare copies*

G.O., No. 1829 W., 5th July 1897.

JULY.

Preparation of Specifications and Schedules for Sanitary Works

Approving the procedure proposed in Memo. No. 2165 C., dated 14th April 1897, in regard to the —, and directing its adoption in future.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From J. A. JONES, Esq., MEM. INST., C.E., F.R.S.E., Sanitary Engineer to Government, to the Chief Engineer, Public Works Department, dated Fort St. George, 2nd April 1897, No. 659.

I have the honour to state that, on receipt of your request for specifications and schedules for the Vizagapatam water-supply, I at once took the matter in hand, but as I have already pointed out in my D.O. of 30th March 1897 (to which I would also refer you) various difficulties have occurred.

2. I find in the first place that I have no one in the office (the Assistant Sanitary Engineer is out a great deal and away at present and when here has other work) who can prepare schedules and specifications for such works and I thus have had to take the work into my own hands. Thus it will naturally take a long time before the specification and schedules are ready and, as you are aware, those for Tirupati and Cocanada are also called for. Having to do the work myself as far as I can spare time from my other and necessary daily duties, it will be seen that the work for all these three projects must extend over some months; hence there will be great delay in the matter.

3. Formerly when a work was sanctioned an Assistant Engineer was appointed who went to the work site with the plans in his hands, studied the plans, inspected the sites where materials were to be obtained and he then in communication with this office began to draw up the specification and schedules one by one and these were here printed and issued and tenders called for. I am now without the above assistance and find it extremely difficult without it to draw up the specification and schedules, as information on various points is continually awanting, and it will take a deal of correspondence to obtain it. Again working drawings ought always to be made out before schedules and specifications are prepared, and this can be done properly only by the Engineer who is to be in charge of the works. In preparing the original designs and estimates it is not always possible nor is it necessary to give full information regarding all details and, indeed, many of these can be obtained only after conference with the makers of certain portions of the work, such as valve gearing, stand pipes, engines and machinery generally; only after receipt of detailed plans can the buildings to receive these be properly designed and scheduled. When work was in my hand I had, of course, direct communication with the makers and manufacturers; but now that the Public Works Department has the work, indents must be sent through the Secretary of State for such as the above and only after the acceptance of tenders by the Secretary of State and the receipt of the working drawings for the machinery, &c., will it be possible to make accurate designs and hence much delay entirely avoided under the old plan. Again, under this system, there is no chance of modifying requirements so as to approximate if possible to estimates by modifications found possible after seeing the proposals of the various tenderers, these being disposed of in England without further reference here. There is little doubt that there is no economy by the change, for special officers must necessarily be posted to the various works and whatever saving is shown is a paper one, even if it is that, because formerly the salaries of Assistant Engineers and Supervisors of this department were included in and charged against the estimates and these charges were partially borne by the municipality concerned, whereas the full time of the officers now employed will be charged against Government.

4. To get out the specification, schedules and necessary additional working drawings in any reasonable time I submit that the only plan is either to place at my disposal until the specification and schedules are complete, the Assistant Engineer or other officer who is to be in charge of the works or else place such officer in this department until the works are completed, under the latter plan my office staff would have to be raised at least to its former numbers.

5. I am more than ever convinced that this divorce of design from execution is a most regrettable one and one not at all either in the interest of the works or of Government. The attempt to draw up specifications to be a sufficient and final instruction to the officer in charge of a work has shown this very clearly.

6. In regard to Cocanada, unless some such proposal as that advocated above is sanctioned, there must be considerable delay as I find that since these plans were prepared, some four years ago, experience gained requires that considerable alterations should be made and that working drawings should differ to a large extent from the original plans; especially is this the case in regard to the engine house (which must necessarily be redesigned) and the service reservoir.

7. If none of the above proposals are approved of then to expedite matters I propose that the Executive Engineer in charge of the works should frame the working drawings, the schedules and specification for all masonry and earth works and submit them to this office, that officer being empowered to suggest alterations in design in detail which he considers necessary from his local experience and that this department work be limited in future to providing specifications and schedules for the engines, valves, pipes, &c., and other iron work for water works as with these details it has naturally more experience than Public Works Officers and it does not require any local knowledge to prepare such specification and schedules.

8. I trust some more satisfactory arrangements than those at present existing will shortly be made.

Memo. No. 2165 C.

With reference to letter from the Sanitary Engineer, No. 659, dated 2nd April 1897, the undersigned is directed to request the favour of that officer's opinion on the following proposal which has been made with a view to meet the difficulties which have occurred in the preparation of schedules and specifications for sanitary scheme.

2. The Sanitary Engineer will prepare the schemes as at present, but making them complete as regards specifications and schedules for engines, valves, pipes, &c., which require no local knowledge. The plans will then be lent to the Superintending Engineer of the Circle, who will make them complete as regards detailed drawings, and other specifications and schedules, the officer or subordinate who is to carry out the scheme being employed on this work with whatever assistance may be necessary. The Superintending Engineer will then submit the whole plans and estimates complete with specifications, &c., complete, to the Chief Engineer for the sanction of Government in the Public Works Department. There will then be no delay in the commencement of a work after sanction is given, as was the case with the Vizagapatam water-supply scheme.

(Signed) D. McNEIL CAMPBELL, Colonel, R.E.,
Chief Engineer.

14th April 1897.

From J. A. JONES, Esq., MEM. INST., C.E., F.R.S.E., Sanitary Engineer to Government, to the Secretary to Government, Public Works Department, dated Fort St. George, 21st April 1897, No. 757.

In reply to your Memo. No. 2165 C., dated 14th April 1897, I have the honour to state that if all schemes prepared were likely to be sanctioned, the arrangements proposed might suit, but as matters at present stand a scheme may be prepared many years before it is sanctioned; many schemes prepared are not sanctioned at all, schedules and specification should be prepared only when work is to be begun and not before and it would be great waste of time to prepare specification and schedules for works which may not be sanctioned at all or delayed for years. Take Negapatam for instance—a scheme sent in but one which Government says it will not be able to finance for sometime, if at all. To have prepared specifications for that would have entailed months' delay of other work more urgently required. Again in the case of Cuddapah, just being completed, I should be sorry to waste time in specification and schedules, because the scheme is very expensive and probably beyond the means of Government; again it and all other schemes may be so criticised by the Sanitary Board and the Sanitary Commissioner that radical alterations may have to be effected and the schedules prepared would be incorrect and useless. Nor would it be possible to appoint an officer to carry out an unsanctioned work so that the Superintending Engineer could not count on the assistance proposed in your memorandum.

2. Schedules take no more time to prepare at one period than another and the proper time is when the work is sanctioned or just before it is likely to be sanctioned because we are always gaining experience.

3. Government and the Sanitary Board are always aware what projects are ready for sanction, and it is therefore very easy in fixing the Sanitary Engineer's annual programme to say that schedules, &c., shall be prepared for certain schemes which will probably be sanctioned in the ensuing year. Thus six months' notice would ensure no delay occurring and it is unlikely that three schemes will be sanctioned again together as has been the case lately.

4. We have Vizagapatam and Tirupati well in hand now. Cocanada will follow and if this can wait for, say two months, we can tide over the present difficulty, which is abnormal, by delaying other work which cannot be helped.

Memo. No. 288 D.

With reference to letter from the Sanitary Engineer, No. 757, dated 21st April 1897, the undersigned has the honour to observe that the proposals made in Memo. No. 2165 C., dated 14th April 1897, appear to have been misunderstood. It was not intended that detailed specifications, schedules, &c., should be prepared till the Local and Municipal Department had approved of the work and it was certain that funds were available, but that before the work was actually sanctioned for execution in the Public Works Department, the procedure suggested in the memo. quoted above should be carried out.

The undersigned has the honour to inquire whether the Sanitary Engineer has any objections to this.

(Signed) D. McNEIL CAMPBELL, Colonel, R.E.,
Chief Engineer.
21st May 1897.

From J. A. JONES, Esq., MEM. INST., C.E., F.R.S.E., Sanitary Engineer to Government, to the Chief Engineer, Public Works Department, dated Fort St. George, 25th May 1897, No. 937.

[Your Memo. No. 288 D., dated 21st May 1897.]

I have the honour to state that I regret that I misunderstood your note. I have no objection to the procedure proposed.

ORDER—No. 1829 W., dated 5th July 1897.

The procedure proposed in Memo. No. 2165 C., dated 14th April 1897, is approved, and will be adopted in future.

(True Extract.)

Under Secretary to Government.

To the Sanitary Engineer.
,, the Local and Municipal Department.
,, Superintending Engineers.
,, the Consulting Architect to Government.

Exd. P. Seetharam.

Preparation of Specifications
& Schedules for Sanitary works

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

11 B

Read the following

Letter from the Sanitary Engineer, No. 659 dated 2nd April 1897

Memo No. 2165 C dated 14th April 1897

Letter from the Sanitary Engineer No. 757 dated 21st April 1897

Memo No. 288 D dated 21st May 1897

Letter from the Sanitary Engineer, No. 937 dated 25th May 1897

Print

No. 1829 W, 5th July 97

The procedure proposed in Memorandum No. 2165 C dated 14th April 1897 is approved, and will be adopted in future.

Printed with Draft

× ~~Flag~~ A. 28.6.97

1/7/97 1/7/97

The Sanitary Engineer
,, L & M. Dept.
Supdg. Engineers.
,, C.A. to Govt.

22/7/97

2/7/97

W for information 9.6.97

(40—4,000—2-11-95.)

Recd. 28/6/97

Sanitary schemes to be carried out by the P.W.D.

READ the following:—

From the Sanitary Engineer to Government, Madras, No 659, dated 2nd April 1897.

1824 W

FOR ORDERS.

Mr. Jones, the Sanitary Engineer, brings to notice certain difficulties that have arisen with regard to the preparation of estimates for the carrying out of water supply and drainage schemes.

Flagged A.

2 In G.O. No. 847 M, Local and Municipal, dated 15th May 1896, it was settled that the execution of water supply and drainage schemes was to be entrusted to this department on plans and estimates prepared by the Sanitary Engineer: that difficulties would arise was foreseen as may be learnt from the notes written at the time.

3 The Vizagapatam water supply scheme is the first work that has been transferred to this Department and there has already been a considerable amount of correspondence

on

SAW.

FOR ORDERS.

on the subject.

4 To meet the difficulties brought to notice by the Sanitary Engineer I would suggest that he prepare the schemes ~~as~~ at present but making them complete as regards specifications and schedules for Engines, valves, pipes &c, which require no local knowledge, and that the plans should be sent to the Suptg: Engineer, who will make them complete as regards detailed drawings, and other specification and schedules, the officer or subordinate who is to carry out the scheme being employed on this work with whatever assistance is necessary. The Suptg: Engineer will then submit the whole plans and estimates complete with specifications &c to the Chief Engineer for the sanction of Govt. in the P. W. Dept.: there will then be no delay in the commencement of a work after sanction is given as was the case with the Vizagapatam scheme.

That something must be done to alter the present system is evident from the fact that I have heard D. O. from the Sanitary Engineer that the specification and schedules ~~of~~ for the Cocanada and Tirupati water supply schemes, which were sanctioned in the Local and Municipal Department and forwarded to this Department for execution some time ago, will not be ready for about 8 months.

7/4/97
W.

The Sanitary Engineer ~~might~~ should be asked for his opinion on this proposal.

10.4.97

12/4/97

12/4/97

Jones

Mr Jones the Sanitary Engineer brings to notice certain difficulties that have arisen with regard to the preparation of estimates for the carrying out of water supply & drainage schemes.

In L.O. No 847 Mu, Local & Muni & No. 1931 W 2-7-96 dated 15.5.96 it was ordered that the execution of water supply & drainage schemes was to be entrusted to the department on plans & estimates prepared by the Sanitary Engineer. That difficulties would arise was foreseen and duly brought to notice at the time.

The Vizagapatam water supply scheme is the first one that has been transferred to the D.P.W. & there has already been a considerable amount of correspondence on the subject.

To meet the difficulties brought to notice by the Sanitary Engineer I would suggest that he prepares the scheme as is desired

N.S. 8/4/97 R 12-4-97.

such
~~[illegible]~~ making them complete as regards
specifications & schedules for Engineers, works
&c & which requires a lot of knowledge
and then the plans should be sent
to the [illegible] [illegible] who will make them
complete as regards ~~[illegible]~~ detailed drawings & other
specifications & schedules, the ~~[illegible]~~ this
[illegible] ~~[illegible]~~ a subordinate who is to
carry out the ~~work~~ scheme being employed
on the work with whatever assistance
is necessary. The Chief Engineer will
then submit the whole plans &
estimates complete with specifications
& to the Ch: Cr for the sanction of
Govt in the P.W. Depart: There
will then be no delay in the
commencement of a work after sanction
is given to carry the same out the [illegible]
scheme.

That something must be done to
alter the present system is evident
from the fact that I have seen S.O.
from the Sanitary Engineer that the
specifications & schedules of the [illegible]
& [illegible] were [illegible] which were
[illegible] in the [illegible] & [illegible] & [illegible]
to the Depart for [illegible] [illegible]
as will not be ready for the 8 months.

6/4/84

Chr. 404

The Sanitary Council does not seem to have understood my proposals. I ~~have~~ also ~~[illegible]~~ not intend that detailed specifications, schedules & plans be prepared until the L. & M. Deptt. had approved the scheme & it was certain that funds were available: but before the work was actually undertaken for execution in the P.W. Deptt. the procedure suggested in ~~[illegible]~~ 4 of my note dated 7/4/97 should be carried out & I can see no possible objections to this.

17/5/97

Public works (1897) Department

Current Number: 3413

(1897)

No. 927 W a/2-4-97 ✓
" 1796 C/A - 29-3-97 ✓
" 1770 C - 29-3-97 ✓
" 1616 C - 20-3-97 ✓
" 1540 C - 17-3-97 ✓
" 1410 C - 11-3-97 ✓
" 1337 C - 9-3-97 ✓
" 1286 C - 6-3-97 ✓
609 W - 4-3-97 ✓
" 936 C - 13-2-97 ✓
" 363 W - 5-2-97 ✓
" 542 C - 27-1-97 ✓
" 114 S - 18-7-96 ✓
" 1931 W - 2-7-96 ✓
" 106 S - 25-6-96 ✓
" 65 S/A - 23-4-96 ✓
" 49 S - 21-3-96 ✓
" 15 S - 31-1-96 ✓
" 29 S - 2-7-95 ✓

not recd
[illegible]

From

The Sanitary Engineer to Govt.
Madras.

To,

The Chief Engineer,
Public Works Department.

No. 659.

Dated 2nd. April 1897.

Recd: 3.4.97

Enclo. Nil

Subject.

Submitting for orders certain proposals in reference to the preparation of specifications and schedules for the water supply works sanctioned for execution.

urgent

S. E./6. 1,000—8-3-97.

No. 659

GOVERNMENT OF MADRAS.

OFFICE OF SANITARY ENGINEER,

Fort St. George, 2d April 1897.

18

From

J. A. JONES, ESQ., MEM. INST. C.E., F.R.S.E.,
SANITARY ENGINEER TO GOVERNMENT,

To

The Chief Engineer ,
Public Works Department.

SIR,

I have the honor to state that on receopt of your request for specifications and schedules for the Vizagapatam Water Supply I at once took the matter in hand, but as I have already pointed out in my D.O. of 30-3-97 (to which I would also refer you) various difficulties have occurred.

2. I find in the first place that I have no one in the office (the Assistant Sanitary Engineer is out a great deal and away at present and when here has other work) who can prepare schedules and specifications for such works and I thus have had to take the work into my own hands. Thus it will naturally take a long time before the specification and schedules are ready and, as you are aware, those for Trupati & Coconada are also called for. Having to do the work myself as far as I can spare time from my other & necessary daily duties it will be seen that the work for all these three projects must extend over some months ; hence there will be great delay in the matter.

3. Formerly when a work was sanctioned an Assistant Engineer was appointed who went to the work site with the plans in his hands , studied the plans , inspected

the sites where materials were to be obtained and he then in communication with this office began to draw up the specification and schedules one by one and these were here printed and issued and tenders called for . I am now without the above assistance and find it extremely difficult without it to draw up the specification and schedules ,as information on various points is continually awanting., & it will take a deal of correspondence to obtain it .Again working drawings ought always to be made out before schedules and specifications are prepared and this can be done properly only by the Engineer who is to be in charge of the works. In preparing the original designs & estimates it is not always possible nor is it necessary to give full information regarding all details and indeed many of these can be obtained only after conference with the makers of certain portions of the work such as Valve Gearing, Stand pipes, Engines and Machinery generally; only after receipt of detailed plans can the buildings to receive these be properly designed and scheduled. When work was in my hand I had of course direct communication with the makers and manufacturers but now that the P.W.D. has the work , indents must be sent through the Secretary of State for such as the above and only after the acceptance of tenders by the Secretary of State and the receipt of the working drawings for the Machinery &c will it be possible to make accurate designs and hence much delay entirely avoided under the old plan . Again under this system there is no chance of modifying requirements so as to approximate if possible to estimates by modifications found possible after seeing the proposals of the various tenderers, these being disposed of in England without further reference here. There is little doubt that there is no economy by the change, for Special Officers must necessarily be posted to the various works and whatever saving is shewn is a paper one, 3 even if it is that , because formerly the salaries of Assistant Engineers & Supervisors of this department were included in and charged against the estimates and these charges were partially borne by the Municipality concerned, whereas the full time of the officers now employed will be charged against Government.

4. 159 To get out the specification, schedules and necessary additional working drawings in any reasonable time I submit that the only plan is either to place at my disposal until the specification and schedules are complete, the Assistant Engineer or other officer who is to be in charge of the works or else place such officer in this department until the works are completed , under the latter plan my office staff would have to be raised at least to its former numbers.

5. I am more than ever convinced that this divorce of design from execution is a most regrettable one and one not at all either in the interest of the works or of Government . The attempt to draw up specifications to be a sufficient and final instruction to the officer in charge of a work has shewn this very clearly.

6. In regard to Coconada unless some such proposal as that advocated above is sanctioned there must be considerable delay as I find that since these plans were prepared, some four years ago, experience gained requires that considerable alterations should be made and that working drawings should differ to a large extent from the original plans; especially is this the case in regard to the Engine House (which must necessarily be redesigned) & the Service Reservoir.

7. If none of the above proposals are approved of then to expedite matters I propose that the Executive Engineer in charge of the works should frame the working drawings , the schedules & specification for all masonry & earth works and submit them to this office , that officer being empowered to suggest alterations in design in detail which he considers necessary from his local experience & that this department work be limited in future to providing specifications & schedules for the Engines, Valves, Pipes &c and other iron work for water works as with these details it has naturally more experience than P.W. Officers and it does not require any local knowledge to prepare such specification and schedules.

8. I trust some more satisfactory arrangements than those at present existing will shortly be made.

I have the honor to be ,
Sir
Your Most Obedient Servant,

Sanitary Engineer to Government.

W.B.10

2165 – d/14.4.97

P. W.D.

Memo UR

With reference to letter from the Sanitary Engineer No. 659 dated 2nd April 1897, the undersigned is directed to request the favour of Acct officer's opinion on the following proposal which has been made with a view to meet the difficulties which have occurred in the preparation of schedules & specifications for sanitary schemes.

2 The Sanitary Engr will prepare the schemes as at present, but making them complete as regards specifications & schedules for engi

15/4/97

8. ... ust som ... satisfac...
... short

require no local knowledge. The plans will then be sent to the Supdg Engr of the Circle, who will make them complete as regards detailed drawings, & other specifications and schedules, the officer or subordinate who is to carry out the scheme being employed on this work with whatever assistance may be necessary. The Supdg Engr will then submit the whole plans & estimates complete with specifications &c complete, to the Chief Engr for the sanction of Govt. in the P.W. Dept. There will then be no delay in the commencement of a work after sanction is given, as

58

was the case with the Vizagapatam water supply scheme.

13/4/97

W

Cy

To the Sanitary Engr.
to Govt.

14/4/97

Specification: ...

8. I trust some more satisfactory arrangements than

ent e will sh

No. 927 W of 2.4.97

Public Works

~~Local & Munl.~~ (1897) Department.

CURRENT No. 4044

6

From

The Sanitary Engineer to Govt.
Fort St. George.

Order

No. 757

Dated 21st. April 1897.
Received 23.4.97
Registered 23.4.97
Enclosures Nil.
Spare copies

SUBJECT.

Submitting his remarks on the proposals for the preparation of Specifications and Schedules for Sanitary Works.

W/ forwd on 1.5.97

O.L.S. 51

of detailed

BACK PAPERS.

G.O.	No	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

S. E./6. 1,000—8-3-97.

7P

No. 757

GOVERNMENT OF MADRAS.

OFFICE OF SANITARY ENGINEER,

Fort St. George, 21st April 1897.

From

J. A. JONES, ESQ., MEM. INST. C.E., F.R.S.E.,

SANITARY ENGINEER TO GOVERNMENT.

To

The Secretary to Government,

Public Works Department.

SIR,

In reply to your Memo No. 2165.C dated 14th April 1897, I have the honor to state that if all schemes prepared were likely to be sanctioned, the arrangements proposed might suit- but as matters at present stand a scheme may be prepared many years before it is sanctioned; many schemes prepared are not sanctioned at all- schedules & specification should be prepared only when work is to be begun and not before and it would be great waste of time to prepare specification & schedules for works which may not be sanctioned at all or delayed for years. Take Negapatam for instance - a scheme sent in but one which Government says it will not be able to ~~be~~ financ~~ed~~ ~~for~~ at sometime, if at all. To have prepared specifications for that would have entailed months' delay of other work more urgently required. Again in the case of Cuddapah just being completed I should be sorry to waste time in specification & schedules because, the scheme is very expensive & probably beyond the means of Government- again it & all other schemes may be so criticised by the Sanitary Board and the Sanitary Commissioner that radical alterations may have to be effected and the schedules prepared would be incorrect and useless. Nor would it be possible to appoint an officer to carry out an unsanctioned

ut up with cnw 3893
Sent to T. on 23-4-97

sanctioned

sanctioned work so that the Superintending Engineer could not count on the assistance proposed in your Memorandum.

2. Schedules take no more time to prepare at one period than another and the proper time is when the work is sanctioned or just before it is likely to be sanctioned because we are always gaining experience.

3. Government and the Sanitary Board are always aware what projects are ready for sanction and it is therefore very easy in fixing the Sanitary Engineer's annual programme to say that schedules &c shall be prepared for certain schemes which will probably be sanctioned in the ensuing year. Thus six months' notice would ensure no delay occurring and it is unlikely that three schemes will be sanctioned again together as has been the case lately.

4. We have Vizagapatam & Tirupati well in hand now. Cocanada will follow and if this can wait for, say two months, we can tide over the present difficulty, which is abnormal, by delaying other work which cannot be helped.

I have the honor to be,
Sir,
Your Most Obedient Servant,

Sanitary Engineer to Government.

P.W.D.

8P

Memorandum

No. 2880 & 21st May 1897.

With reference to letter from the Sanitary Engineer No 757 dated 21st April 1897, the undersigned has the honour to observe that the ~~suggestions~~ proposals made in Memo No 2165-C dated 14th April 1897 appear to have been misunderstood. It was not intended that detailed specifications, schedules &c should be prepared till the L & M. Dept. had approved of the work and it was certain that funds were available, but that before the work was actually sanctioned for execution in the P.W.D. the procedure suggested in the

Specifications for work

the Memo quoted above should be carried out.

The undersigned has the honour to enquire whether the Sanitary Engineer has any objections to this.

18/5/97

E. W.

Rd.

To

The Sanitary Engineer.

D 21/5/97

A. 2. 8/4671/3

P. W. Department

From C No 6536

The Sanitary Engineer to Govt

9

To

The Chief Engineer

P. W. D

No. 937.

Dated 25-5-97.

Recd 27-5-97

Repd: 5-7-97

Papers

Informing th[illegible] he has no objecti[illegible] to the procedure pr[illegible]osed in his memo: 2105 C of 10-1-97 regarding the preparation of detailed specifications for work

P.S. 3/4

~~277~~ 288 D of 21-5-97

S. E./6. 1,000—8-3-97.

No. 937

GOVERNMENT OF MADRAS.

OFFICE OF SANITARY ENGINEER,

Fort St. George, 25th May 1897.

10P

From

J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E.,
SANITARY ENGINEER TO GOVERNMENT,

To

The Chief Engineer,
Public Works Department.

Sir,

Your Memo No. 288.D dated 21st. May 1897.

I have the honor to state that I regret that I misunderstood your note. I have no objection to the procedure proposed.

I have the honor to be ,
Sir,
Your Most Obedient Servant,

J A Jones

Sanitary Engineer to Govt.

Litho