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(3) Initials of the Reference J

MADRAS RECORD OFFICE.

Government of Madras.

Submarine DEPARTMENT.

G.O. No. <u>1439</u>	Press <u> </u> Mis. <u> </u>
Dated <u>12</u> <u> </u> 18 <u> </u>	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
from 11th to 17th June 1859.*

Read the following papers.

No. 1. Letter from Lieutenant-Colonel J. H. BELL, Chief Engineer; to J. D. BOURDIL-
LON, Esq., Secretary to Government, dated 26th May 1859, No. 894.

The Honorable the Governor has in his Memorandum of the 11th April 1859 directed my attention to the duty of preparing a Code of Regulations for the Department of Public Works, and in two subsequent orders of Government the injunction is so emphatically repeated, that I cannot fail to conclude that the Government is strongly impressed with the necessity of providing a complete practical guide to the duties of the Department. From a brief conversation on the subject with the Governor I judge however that His Excellency is satisfied that a preparation of a Code is a task not very easily accomplished; and as that is my own conviction I shall proceed to state my views in the belief that they will be received with consideration, and that my recommendations will be disposed of on sound principles.

2. When it was determined in 1855 to commence the organization of the new Department of Works the formation of Rules adapted to the great alteration which was about to take place became a matter of necessity; and I was charged with the duty of preparing them. I had been relieved from my office of Secretary to the Board of Revenue, Department Public Works, and for several weeks was able to devote nearly all my time to the work entrusted to me. I had for materials the second Report of the Public Works Commissioners, the Circular Orders of the Marumut Department, the Rules for Military Buildings, the Rules and Accounts of the Road Department, the old Bengal Code, and, it may be, other documents which I do not particularly remember. I had also many years experience to guide my estimate of the wants of the new Department. But it must be obvious that all the furniture which I possessed would hardly suffice for more than a skeleton Code, since the Executive system which was about to be established had hardly any precedent in this Presidency. The Code, while thus incomplete, would also be tentative, and open to extensive correction as the new Department came more and more into operation. Yet imperfect as the production was it cost me a great deal of care and labor. Nothing that I could derive from the documents before me suitable to the purpose, or that I could conceive to be necessary was omitted, and every paragraph was revised several times. The Code being laid before Government was returned with considerable alterations of the matter, and still greater of the style. It was only in part introduced into the Department; but it has ever since, with numerous additions embodied in Circulars, formed the practical guide of the Officers and Subordinates.

3. In Bengal far more time and labor have been expended on the Code, though in all the territories to which it was applicable a complete Executive system having long been in force, rendered unnecessary all speculation upon the requisite provisions of the Regulations. An Officer of the Department of Public Works, Captain Dickens of the Artillery, was relieved from his provincial duties, and stationed in the Secretary's Office at Calcutta, where he remained for a very considerable period, and except when assistance was wanted in the office, through the removal of Engineers to serve in the field, was employed, I believe, exclusively in the preparation of the Code in communication with the Secretary. The compilation made by Captain Dickens has been by order of Government, under consideration in the Central Office; but though favorable opinions of its suitability to our circumstances and wants have been expressed, and though it has been discussed in form by the Superintending Engineers, I do not find that the least real progress has been made in the practical matter of applying the rules to our Department; nor I confess do I expect that any amount of discussion would bring us nearer to the desired object. A brief inspection of the Bengal Code would, I think, satisfy any one well acquainted with the Madras Department that the Code contains a very great deal that

we do not want, and omits as much or rather far more, that we already possess in a partially Chaotic state, and can by no means dispense with. It is possible that the Bengal Code would form a good basis. Of that I am more than doubtful; but if it were so there must ensue a very extensive process of demolition and re-construction to complete the work of adaptation. Now as a large part of the Bengal Code is superfluous here, while every one of our Rules and Circulars must be in substance at least incorporated in our Code, the most natural way of proceeding appears to be to make our present Rules the basis, gathering in their scattered elements, and reducing them to a systematic form in combination with all that is useful in the Bengal Code. This will be no light labor; and I do not see how it can be performed except by an Officer employed solely for the purpose. If it were entrusted to any Officer of the Central Office he could not afford to it more than a brief space of each day, and if such a space much would be always lost in re-fixing the thoughts upon the subject in hand. In such a work concentrated and prolonged attention is of great importance; and if the work is worth doing at all it is worth doing as well as possible. The plan of merely reading and considering the Bengal Code hitherto followed is very defective. It necessarily leads to the retention of a large body of superfluous matter, because of the great difficulty of careful revision under such circumstances, and thus the advantage of brevity, which next to perspicuity is of the utmost importance, would be wholly lost.

4. If the expense of employing a selected Officer for the duty of codification is a fatal objection, it seems to me to be equally fatal to the undertaking in any form; and I would rather that we should continue working with our present disjointed Rules till more favorable times, than waste any Officer's labor upon a vicious plan of operations. If an Officer were allowed for the purpose in view, he should be one of considerable experience in the Department, and a competent master of terse and expressive language; for verbiage is destructive of practical utility.

5. After all the Madras Code would probably little resemble its intended type, the production of the wisdom of Bengal; but what then? the principles of all such Codes are necessarily the same and immutable, but the forms may be widely various, and all that is wanted is such a digest of acknowledged principles as will suffice for a practical and unerring guide.

6. I observe in the Bengal Code a tendency to the introduction of negative rules. These, I think, are a mistake; for it is obvious that if we set about telling people what they are not to do we may exhaust the fertility of invention before we have finished. A Code of Regulations should fully express the duties to be performed, and should be prefaced with a general warning that functions assumed and acts performed without the authority of the Code in letter or spirit would be treated and censured as irregularities.

7. With the foregoing observations I beg leave to recommend that the work of preparing a complete Code for the Department of Public Works be entrusted to an Officer holding a substantive appointment in the Department, in immediate communication with the Chief Engineer, and that another Officer be appointed to act for the first while employed in this way. I think that an able Officer with the large amount of existing materials ready to his hand might accomplish his task in three or four months; but I am unwilling to pledge myself to a particular period, because its length must depend upon ability and diligence yet to be proved in the peculiar work to be performed. And I must conclude with repeating my persuasion that the work of codification cannot be satisfactorily performed upon any plan but one in principle the same as that which I suggest.

8. Since the foregoing letter was written I have seen Captain Impey of the Bengal Engineers, who informs me that it is intended immediately to constitute the Superintending Engineer in Bengal 2nd Class Chief Engineer and the Chief Engineer a Secretary to Government; but Captain Impey does not know whether or no this arrangement is to be made general. It appears to me, however very necessary that the constitution of our Department should be finally determined before any thing is done with regard to the Code.

9. The expense of the plan which I have above proposed would be the amount of half the salary of the Officer employed on the work for the period of its duration, added to some small contingencies.

No. 2. Minute by the Honorable the President, dated 1st June 1859.

I have read this interesting and able report with much satisfaction because it takes what I am confident, from considerable experience of similar work, is the only just view. The Regulations of Her Majesty's Commissariat are one of the few successful instances of an administrative Code, and they were framed by me—

1st. By digesting into one point of view the *unrepealed* portion of former Codes and of such parts of several hundred Circulars as were *in actual force*.

2nd. By *re-writing* one Section after another *on the basis of the actual practice* with such improvements as appeared to be required.

3rd. By circulating each Section, as it was prepared in draft, among the experienced and able Officers of the Department for their revision and suggestions.

4th. By enacting and promulgating each Section after considering these suggestions; and

5th. When the Code had been completed in this manner, piecemeal, by re-publishing it in a single volume—every Officer being furnished with two copies, one of which was interleaved in order that he might note opposite to the proper article, any alterations that might be subsequently promulgated from the Central Office.

2. About ten years after this, a new edition was published including the intermediate modifications; and some years after that, when the Financial business was separated from the Supplies in kind, a third revised edition of the Financial portion was published.

3. No Department can be administered up to the maximum of its efficiency without such a Code. Even if no worse consequence happens, there must, in the absence of such Regulations, be endless waste of power in the mistakes made by a constant succession of new men, and in the time and strength required on the part of the experienced Chiefs, to set them right and instruct them.

4. This narrative of a similar successful operation carried through precisely on the plan recommended by Colonel Bell, will show how entirely I agree with him. A more important duty could not be entrusted to any Member of the Department—and to be well and quickly done it must occupy his whole time.

5. I propose that Colonel Bell be authorized to select the Officer of the Department whom he considers best qualified for the duty, and to employ him entirely upon it according to the Plan recommended by him.

(Signed) C. E. TREVELYAN.

No. 3. ORDER THEREON, 11th June 1859, No. 1439.

1. Ordered that a copy of the Minute recorded above be forwarded to the Chief Engineer for his information and guidance, and that he be authorized to select any Officer of the Department whom he may consider the best qualified, for the duty of preparing a Code for the Public Works Department of this Presidency, and to employ him entirely upon it according to the plan recommended in his letter.

2. Colonel Bell will report the name of the Officer whom he may so select, and the compensation which he may consider it necessary to allow him for the expenses of the Presidency, if he is brought from the interior. He will also propose the measures which he may consider proper to supply the place of the Officer so selected, during his employment on this duty.

3. Adverting to para. 8 of Colonel Bell's letter, the Governor in Council observes that the order of the 8th Instant No. 1387 fixes the position and duties of the Superintending Engineers, now termed Deputy Chief Engineers.

(Signed) J. D. BOURDILLON,
Secretary to Government.

57

Minute by the Hon. Secy.
to the Govt. of India, 17th Dec. 1859.

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2nd By recasting one section after another on the basis of the actual practice with such improvements as appeared to be required.

3rd By circulating each section, as it was prepared in draft, among the experienced and able Officers of the Department for their revision and

suggestions.

Suggestions:

4th By enacting and promulgating each section after considering these suggestions; and

5th When the Code had been completed in this manner, piecemeal, by republishing it in a single volume with a limp cover to carry in the pocket - every officer being furnished with two Copies one of which was interleaved in order that he might note opposite to the appropriate article any alterations that might be subsequently directed from the Central Office.

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1st June / 59. Signed / E. E. Trevethan

Central Office of P.W.
Fort Saint George
26 May 1859.

(N^o 894)

From
The Chief Engineer
To
The Secretary
to Government P.W.

Sir,

Public

The Honorable the Governor has in his Memorandum of the 11th April 1859 directed my attention to the duty of preparing a Code of Regulations for the Department of Public Works, and in two subsequent Orders of Government the injunction is so emphatically repeated, that I cannot fail to conclude that the Government is strongly impressed with the necessity of providing a complete practical guide to the duties of the Department from a brief conversation on the subject with the Governor I judge however that his Excellency is satisfied that the preparation of a Code is a task not very easily accomplished; and as that is my own conviction, I shall proceed to state my views in the belief that they will be received with consideration, and that my recommendations will be disposed of on sound principles. —

2. When it was determined in 1855 to commence the organization of the new Department of Works the formation of Rules adapted to the great alteration which was about to take place became a matter of necessity; and I was charged with the duty of preparing them. I had been relieved from my Office of Secretary

April 29th 1859 J. P. P.
May 17th 1859 J. P. P.

Copy in L.H. 1. 6.
27th June 1859. 1859

27th 1859 J. P. P.
27th 1859 J. P. P.

Memorandum by the
Honorable the
President

Dated 10th 1859
Recd 2nd 1859 J. P. P.

Containing certain
observations on the pro-
position of a Code of
Regulations for the P.W.
to be submitted to the
Honorable the President
of the Department in
the course of his duties
for the purpose of
submitting to the
Honorable the President

1859

to the Board of Revenue B.P.W., and for several weeks was able to devote nearly all my time to the work entrusted to me. For materials the second Report of the Public Works Commissioners, the Circular Orders of the Muzammat Department, the Rules for Military Buildings, the Rules and Accounts of the Road Department, the old Bengal Code, and, it may be, other documents to which I have particularly, remember I had also many years experience to guide my estimate of the wants of the new Department. But it must be obvious that all the furniture which I possessed would hardly suffice for more than a skeleton Code. Since the Executive system which was about to be established had hardly any precedent in this Presidency. The Code, while thus incomplete, would also be tentative, and open to extensive correction as the new Department came more and more into operation. Yet imbricated as its production was, it cost me a great deal of care and labor. Nothing that I could derive from the documents before me suitable to the purpose, or that I could conceive to be necessary was omitted, and every paragraph was revised several times. The Code being laid before Government was returned with considerable alterations of the matter, and still greater of the style. It was only in part introduced into the Department, but it has ever since, with numerous additions embodied in Circulars, formed the practical guide of the Officers and Subordinates.

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of

137
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subject in hand. In such a work concentration and prolonged
attention is of great importance; and if the work is worth doing
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and considering the Bengal Code hitherto followed is very defective.
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simplicity is of the utmost importance, would be wholly lost.

4 If the expense of employing a salaried Officer
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151
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I

his

At 2 1/2 by meeting and immediately
each section after considering these
suggestions; and

When the books had been compared
in this manner - reviewed, by comparison
in a simple manner - with a lamp down -
to come in the pocket - every officer kept
promised with the books he might not expect
independance in writing but he might not expect
to the appropriate article and writing the
might be subsequently directed from the published
about two years after - in the printing and published
including the material brought out of the
that, since the material brought out of the
No Department can be administered by the
its officers, without much a book - As any one
in the above, he might write a book in the
by a constant inspection of the matter
and might require to be done on the part of the
ships, to get them right & without them -

This manuscript of a successful operation carried through
inactivity on the plan recommended by Lord Dalhousie
intended to give with him - A more important duty would not
be intended to any member of the Department at the time -
not quickly done - it must occupy his whole time -
The Officer to be appointed when he considers that it is
the Officer to be appointed when it is according to the plan recommended
not to making him entirely his own
17 June 59 -

Since the foregoing letter was written
I have again obtained from the Bengal Engineers, who inform
me that it is intended immediately to constitute the Superintending
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Engineer of the Secretary to Government, but Captain Simpson
does not know whether or no this arrangement is to be made
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The expense of the plan which I have
above proposed would be the amount of half the salary
of the Officer employed on the work for the period of 12 months
added to some small contingencies -

Central Office of the
Fort Saint George
26 May 1859
I have the honor to be
Sir
Your most obedient servant
H. C. W. Colclough
Chief Engineer

The Secretary
to Government

E. Gray

196

Proceedings of the Madras Government—

Read the following

• papiers.

Letter from the Chief Engineer. (Here enters 26th May 1839 No. 894)

Minute by the Honorable the President (November 1st June 1859.)

1 Ordered that a copy
of the Minute recorded above
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Handwritten signatures of the President and Vice President.

12th April / 59 - 73.
 14th May / 69 - 129
 15th June - 1103
 29th April / 59 - 135
 June 8 - 1363
 28th / 1357-1.
 I have not the time to write
 27th June / 59

12^c April / 39-133-
 14^c May / 69-139-
 15^c May-1103
 29^c April / 39-135-
 June 8-1363

801357-1

Chas. W. Lytle, the Hon. the Pres. of our
27th Decr/59

Proposed that the
Ed: Surge be authorized to
deleat the last qualified

*Offered for publication a good
officer for a price!
For the D. P. M. of this State:
- Jones and company have*

entirely upon it according
to the Plan recommended

My dear

Only use letters to England
8th 79. & May 160 No. 33.

42/42

2. June
e28 May 1731

1009 Marked 1033
Office of General Survey
March 13 1857

Dear Sir,

The Most Excellent
 Lord Bishop of London

The Secretary
to the Commission

Water 26 1/2 }
Barrel 17 1/2 } Friday, 1884

1858 June 11 No. 11

Charles H. Smith

subject of preparing a copy of the
for the A. B. M. and recommending it
we be entrusted to an efficient body of

first having applied our lens to the object, and then moved it to accommodate the conditions of the image, but in the case of the microscope, the conditions of the object are fixed and the conditions of the image are variable.

My husband has finally determined to go
any thing is done regarding the Pass. --
Feb 13 1874

Christy - 8/17/1939

I have read this interesting and able Report with much satisfaction because it takes that of my confiding from considerable evidence of similar words is the only just view. The Regulation of the Semi-School and one of the few successful instances of an administrative body are here more pointed by me.

My attention was drawn to
the ~~particular~~ portion of former codes and

of each party & several individual signatures

27 My Secretary one letter

With mastery on the stage &
practice with such instruments as

Furnace to be renewed by
Sept 1875 Mr. J. W. Smith Secretary

3) The controversy between
as it was prepared in draft, among the

the experienced and able officers of
the department for their wisdom and

It was over! And it was.

his letter.

2

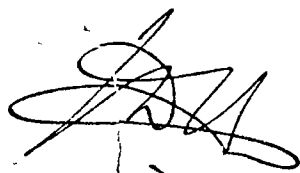
Colonel Bell

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3

Adverting to Para 8

of Colonel Bell's letter, the
Governor in Council observes
that the order of the 8th Instant-
No 1387. fixes the position
and duties of the Superintending
Engineers, now termed Deputy
Chief Engineers.



10 Copies to the Chief Eng.
Depy 211

Dr. A. C. Hoffman 1859 Dec 18th
Brooklyn N. Y. & Am.

21. 10/14. 39.
Ph: of the Charles Fox b.
27. 11. 10. 2. 11. 10. 1. 39.

10. ~~Contd. next~~ Aug 28/11. A. June/57.
Cat 1465. Cont'd p 18-92-93.

Chief Engineer to erect
any kind of Office of the Dept.
for preparing a code of
R.R.D. at Madras, to
report the name of the
Office to be erected and the
compensation to be allowed
to him for expenses. Order
of the Govt. in land No 1387
does the provision with
directors of Railway Administration's
Eng'rs. now named to defray
Chief Engineer -

401253-