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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D DEPARTMENT

VOL II

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be folded or roughly handled

Minute

No Statement
of the principles and
objects of this proposed
reorganization of
P. W. Establishments - the
Extravagance
and failure of admini-
strations have suggested
since the Constitution
accompanies the al-
paper; but I gather
the object to be to secure
more Departmental
Supervision & inspection
of subordinate Establish

: ment & their work
throughout the country,
to systematise and
strengthen District
administration and
control and to concentrate
finance management.
A small saving of some
two to three per cent on
the existing cost of
Establishments is
deduced; but, viewed
by the light of the past,
it is unlikely that the
maintained under
the conditions proposed.

The annual tasks
to be performed by
the

this Department may
be gathered from the
Expenditure of a fairly
normal year. Taking
the figures of 1875-76 (the
Administration Report
in which the Grants were
somewhat larger than is
usually the case) Agri-
-cultural ordinary Grants
have fallen off — we find
that it was distributed
as shown in the margin —
we had a total Grant
of 10½ lakhs. The
proportion of this sum
which was spent on
Establishment was in round
numbers 2½ lakhs, while

the

Military:—		8,22,744
Irrigation Capital:—		
Capital Extraordinary	6,10,082	
" ordinary	4,33,685	10,43,767
Revenue:—		18,76,511
Telegraph Repairs	7,87,227	
Agricultural ordinary	18,05,030	25,92,257
Provincial:—		
Land Grant	21,89,016	
Local Fund	35,96,082	
Repairs	16,180	57,85,278
		102,54,046

the actual work performed
under this Supervision or
by the Establishment for
that money was worth
say 77 lakhs — including
the large profits of Contractors
and builders — in other
words between one fifth
and one-fourth of all
Grants was spent on
Supervision, management,
and yet neither efficiency
nor honesty were absolutely
secured.

It would unduly swell
my observations were
I to Endeavour to
sketch the nature
of the works to managed.
But I may remark that
Even

Even under Inland Navigation
and Irrigation Capital
Account works, which
alone deserve to be
classed as Imperial.
a large mass of Engage-
ments were of an
unimportant & minor
character. Nowhere
Even assuming for the
moment that the whole
of these works were
of sufficient importance
to palliate the Expenditure
on Establishment of some
Rs: 4,00,000 (at 25 per
cent of the Grants) for an
Expenditure under 16 lakhs
there can be no doubt
that an Establishment

costing say 16½ lakhs
for the Expenditure of
say 65½ lakhs on such
works as constitute
Provincial & Local
Fund works or Revenue
repairs & agricultural
ordinary works water
ways & Extravagant
under any consideration.
For probably three-fourths
of the Expenditure on
Communications & under
Provincial & Local
Funds consists of
mileage grants for the
mere raking in of roads
slagging & metal of
ordinary annual repairs,
while

while the other works
such as Constructing
Railways & Offices of the
Simplest Character,
Police lines & the like
and Local Fund Dis-
-pensaries require
only such Scientific
Skill as may be Commanded
at very reasonable
Cost. The Sanctioning
outlay on Establishment
& on this account is
therefore Clumsy and
Extravagant in the
Extreme. The same
observations apply to
Agricultural ordinary
works, such as Channels

Tank Sluices & Escapes
- which, barring Sufficiency,
the people have been
Constructing for themselves
with admirable ability -
Embankments & the
like, which require
no skill of higher
pretensions. Honesty
of Expenditure is with
the characteristic of
large subordinate Esta-
blishments in this
Country.

On the whole I but
record the Conviction
which has now possessed
all minds outside
the Department that
the

the cost of D.P.W.
Establishment is out
of proportion with the
work they have to do
and that the time
has full come when
it is the absolute duty
of the Govt: to moderate
their Expenditure in this
respect, in accordance
with the requirements
of works to be done
and with the interest
of the Country & of the
public Ire alike.
It is time that Depart-
mental Constitution
& management should
follow obvious public

consideration and the Expenditure has kept within reasonable limits.

Taking then the normal annual grants for Public Works under all heads at 100 lakhs a year, one-fourth of this sum may be accepted as Imperial property to be called Viz. "Military" & "Irrigation capital account" works and I am satisfied that 20 per cent of this outlay should cover the Establishment charges for all Imperial

Public Works:- say 5 lakhs a year. A larger charge than this is unfair to the Imperial Fisc.

All these works should be classed as Provincial & Local, which is their proper character, and the sooner the wise measure of decentralization is extended to all these items the better. As regards the works permanent Establishment charges should be more thankfully met- under anything like reasonable &

Efficient administration
Co[st] at from 10 to 15 per cent
the of the outlay - or say
hea (taking the higher rate)
to 11 lakhs. Making a total
of 16 lakhs for all
no Establishment charges
from this Department.
al It is alleged, I venture
a whole, unjustifiable that
of the State should
a charge municipal
bodies one-fourth of their
whole grant for Public
P. W.; for the most
Extravagant Supervision
that was ever devised
and that the Provincial
Government should make
on

on Extravagant
Establishment from
30 to 40 per cent of the
sum entrusted to
their administration
by the Imperial Govt:
as is now occurring
I understand - 17½ Lakhs
would be an outside charge.
The Committee think
Sabai 1869-70 recommended
useful reforms and
I cannot be a party
to any illusory reorgani-
-zation, which fails
to start on the basis
of an Equitable and
reasonable appropriation
of Expenditure between
Supervision & manage-
-ment & work. That

is not the character
of the one before me.
I hold that the Govt:
are bound to determine
the maximum Expenditure
on Establishment with
reference to the funds
at disposal for works.
and to arrest Existing
waste of both money
& power.

These Exist as it
appears borne in almost
Every branch of the
Establishment & perhaps
not least at the head
of the ~~Railway~~ Existing
organization. As a matter
of fact we have the

administration of the
Department of Execution
& Expenditure - one Specially
needing Concentrated
Control and manage-
ment as respects
its finance & direction
- broken up into 3 Separate
and more or less inde-
pendent branches including
the Railway branch, by
whose Consulting Engineer
has recently been added
to the Govt: Office Secretariat
- Each Department
has its own Chief
Engineer, Each of whom
again is his own Secretary
to Government in respect

of his own work and so much of that of the General Establishments as relate to his share of the administration. It is for me with the Executive Departments General & Irrigation that we have chiefly here to do. In these relations every District Engineer in the Country serves two masters and Secretaries to Govt:

Each Chief Engineer and D.P.W Secretary to Govt: again has a Deputy

Deputy Chief Engineer employed in the main as Under Secretary or Assistant - one (Col Farewell) occupying the place & drawing the salary of a Superintending Officer - with in practice a distinct office establishment. From an administrative point of view we have thus a cumbersome & inconvenient organization in the Office. Each of the Chief and Deputy Chief Engineers is I conceive understood to control & inspect from

from time to time
the larger works connected
with his respective branch
of the Department.
but as Secretaries
to Govt; all these Offices
are attached through
the greater part of their
time to the Govt: Office
and the Chief Engineers
~~are~~ at least are in
residence around
the Govt: at Ooty
and absent from
their Offices of Verification
& control for a great
part of the year. They
are

are then hampered
as respects system,
Control, inspection
and the like by the
ministerial duties
of the Govt: Secretariat;
When one of these Officers
is required as Chief
Engineer to be afield
amongst their District
Officers in the ordinary
course of duty or
under Special Emer-
gency, the Secretariat
duties of the absentee
devolve pro tem on
an Under Secretary
and

and the portfolio
of the particular branch
of the Department - is, so
far as Council is
concerned, brought in
by the head of another
branch, who is more
or less unfamiliar
with the threads of the
Department supervised
by his brother Chief
Engineer, and is probably
discouraged by the
Etiquette of the service
from advising Govt:
independently on any
subject, which he may
be permitted by his
Coordinate.

Coordinate Chief
Engineer to introduce
to their notice

As heads of their
respective Branches,
these Officers no doubt
have a reasonable
amount of work to do -
though I should doubt
whether - short of arrest
the General Chief Engineer
himself has as much
to do as an Officer of that
position should under
might overtake - Be this
as it may; the triple
and separate Secretarial
to Govt: (with its
Deputy

Deputy Chief Engineers as Under Secretaries to Govt.) is the total absolute waste of power & of public money and time. The arrangement is otherwise detrimental to public interest by the traverse of primary duties of these Heads of the Department, which is involved in personal attendance at Govt. and prolonged absence from their offices and duties of inspection for and of one of the usual principles

principles of Administration in this Country - Viz that the work of each Department does at some stage pass into independent hands.

Working from 5 years' Experience of the Madras Council Chamber. I do not hesitate to say that taking one week with another throughout the month, all the three Chief Engineers & D.P.W. Secretaries to Govt. together do not occupy Council for one hour

a week – the consulting
Engineer for Railways
very rarely appears
at all – all the year
through, although various
of the things which are
brought into Council
in this Department had
better be left to the
Executive of the Depart-
ment – and this occurs
for the very obvious
reason that very
little indeed – certainly
not one-tenth – of the
work of a Department
of this kind is such
as is or can be conveniently
transacted

transacted in Council
or in the Govt. Secretariat
or in fact by personal
Communication with
the Members of Govt:
at all. Submitted
with a Chief Engineer's
report or countersignature
by far the greater bulk
of the business of this
Department would
be better & more system-
atically done by a
single Office of the
Secretariat, who might
be of moderate
Standing and appointed
ad hoc. We would
then have undivided
attention

attention to Secretarial
duties, while the Heads
of the branches would
give them undivided
attention to the control
of their Offices. Great
projects of public utility
are in the main or
should always be
discussed by Council
deliberately on the
Estimates & responsible
Special reports and
it does not require
an Officer of Splatted
standing to lay the
well-Considered reports
of a Chief Engineer with
Enclosures before
Government

Government. I believe
that it were much
better. Even now, were
all Estimates & reports
submitted with a special
review of the Chief
Engineer - as such - to
Government through
a Secretary of Subordinate
rank for their Calm
Consideration. But -
what occurs now is
this: - Col: Foord - as
Chief Engineer - occa-
sionally writes a more or less
informal note about
any matter in his Dept.
and then as Secretary
to Govt: drafts G. O.s -
practically

practically by himself as Chief Engineer. Col: Mullins in like manner as Chief Engineer of Irrigation submits a memorandum practically by himself and as Secretary to Govt: Circulates the Draft for G.O in Echo of this Memo for the initials of the members of Govt: — in a manner which differs from, while it scarcely improves upon, the formal & special character of independent Reports which come before Govt: for disposal under the signature of responsible heads of Departments with a note by the Secretary, who takes a fresher view of the Subject. Business in D.P.W necessarily assumes, as it seems to me, a less formal and careful character; and possibly members themselves are tempted to Endorse the Chief Engineers disposal of matters in the Secretariat more readily

readily than occurs
in respect to any other
Department of the
Administration. Be
this as it may, the previous
time of these Chief
Engineers is practically
still taken up by a
2d review of matters
before him and little
if any further occupied
by a mass of trivial
routine & by the attendance
on Govt. on the Hills
& elsewhere, which
necessarily attaches
to a Secretariat, and
is I think unworthy of
Officers in their position

But a
graver objection in
principle – and therefore
also in practical Conse-
quences attaches to the
position of these ~~g~~
permanent heads of
Departments serving
as Quasi Secretaries
in the Govt. Office.
Move up the permanent
head of any Department
– much less three such
Heads of as many branches
of the same Department
– as permanent Secretaries
(Each in respect to their
own branch of the work)
to a more or less shifting

Cabinets of 3 in number -
and bringing, as he
must, a very potential
voice to their deliberations,
and I will not express
what I think follows;
but what I will affirm
is this:- the Secretaries
necessarily cease to
be simply ministerial
officers of that Cabinet,
and any really effective
and independent Control
by the members of Govt.
various
over the branches of the
administration, which
its chiefs represent
in Council is virtually
Enfeebled

Enfeebled & Embarrassed.
It is I believe absolutely
impossible for the "Minister
in charge" of the D.P.W
to work with two or three
Chief Engineers, as if
they were really ministerial
officers of his Secretariat
or for the Government
Effectively to Exercise
that Certain Control
which it does Exercise
over all other Departments
of the general administ-
-ration not to favored
financial Control
and retrenchment
are almost impossible
under the circumstances
As

As a matter of fact, the presence of 3 Chief Engineers and two Deputy Chief Engineers of the D.P.W in the Govt. Secretariat is no more reasonable than would be that of the Bishop and his Archdeacon, or of the 1st Member of the Board of Revenue or Director of Revenue Settlement, Each in charge, as Secretary to Govt, of their respective Departments under

the Equally applicable plea that there are technicalities in their Departmental duties which require to be explained personally to the members of Govt: in Council and that their Departmental business requires Specially their guidance by themselves through the State Cabinet; no more complete traverse of the most ordinary principles of administration to control could be

devised, as it appears
to me, than that which
exists in the Secretariat
of the Govt: of Madras
at this moment in
respect to the Department
of Public Works - and
I refuse to be believe
that any further reor:
ganization can be
usefully or effectually
taken in hand which
does not remove the
existing embarrassment
of Govt: in respect
to its overwhelming
D. P. W. Secretariat
which does not embarrass

Each

Each Chief Engineer
- together with his
Deputies - of the
Secretariat Office
work, which now
harasses & travels
his proper functions
as the Heads of a
Department, by claims
on them as a quasi
Ministerial office
of the Government -
Secretariat and which
fails to place these
Officers of highest -
standing in a position
which shall enable
them to Exercise useful
personal

personal Control
inspection to monitoring
Scrutiny of the progress
Estimates & works of
these subordinates.
The Commission which
sat in 1869/70 to
consider the reorgani=
=zation of the P.W.D.
reported unfavorably
of the conditions now
under Consideration,
although there was
then but one Secretary
to Govt:, Colonel Orr,
who undertook, I believe,
no duty or responsibility
which properly belongs
to a Chief Engineer,
in addition to his
Secretariat functions.

It is obvious that
the presence of respons=
=ible Heads of all these
branches of one Depart=
=ment in the Secretariat
of Govt: is in no way
necessary with a
view to personal Com=
=munication with the
members of Govt: on
matters of importance.
The Head of any branch
of

of the D.P.W organization
can be sent for or
otherwise communicated
with – so it seems in
other Departments – at
any moment without
being further burdened
with the ministerial –
functions. In fact
removed from the
Ministerial and
Secretariat subordinate
uncertainties, the
Head of a Department
is in a better position
to offer influential
and reliable advice

I need scarcely add
that I attach the
utmost importance
to this measure of
reform of existing
Conditions, because,
apart from other
Considerations, I hold
that the unembarrassed
attention of the Head
of a Department to its
internal working is
the keystone of Efficiency
and where it is traversed
the defect has to be
supplied by otherwise
needless numerous
and costly subordinate
inspectorate

inspectorate arrangements

The project of reorganization before me apparently retains the position of the 3 Engineers and the Deputies in the Govt: Secretariat untouched and seeks to supplement those: Current and inevitable deficiencies as respects inspection and the primary duties of these Officers by relying on Superintending Engineers to effect these duties in part at least.

This

This Cumbersome Impediment cannot heal defective and costly conditions at the top of the Department, for the whole thing is, I hold, top-heavy at the head and inconsistent: This Govt: has already proposed to the Govt: of India a sound reorganization of the Secretariat & Chief Engineers' duties unhappily without success. But I should recommend that we

adhere strictly to the
Economical and
administrative change
which we have decided
to be indispensable
in our present proposals.
By relieving the Chief
Engineers of their departmental
of Secretariat in connection
the needful increased
supervisory control
with will in a great
measure be provided
and reduction made
feasible

The point of full
administration in the
Presidency

Presidency is to be distributed
and the directions to be
observed in its improve-
ment as respects the
D.P.W. - he is therefore
in, so far as possible,
Centralizing & Consoli-
-dating Control and
responsibility in the
hands of the District
Engineers in respect
to Every D.P.W matters
within Each District.
The next step - after
wholesome adjustment
at the head - in due
reorganization therefore
lies in effective adjust-
-ment in the Districts

What his Lordship does are about to do one.
Yet this is not altogether an exaggerated picture of the confusion which exists at this moment in respect to the Establishment of the D.P.W and of the position of the District Engineer — unless he be a man of peculiar energy, method and Command. The District System was revived on the recommendation of the Commissioners which Act in 1869/70 some years ago but

it has been imperfectly carried out as yet in detail.

In reorganization therefore the District Engineer's position must be ~~strengthened~~ consolidated, strengthened and energized. He must be placed at completely at the head of the whole District and in control of the D.P.W Establishments as the Director is as respects the Civil Establishments. He should be the only officer in direct account

with the Controllers
or in Communication
with the Superior authority
and so on thro' the
entire as feasible in
this Department as it
is in the other Departments
of the administration;
for, as a rule, Districts
are not in size - proposals
have already been
submitted for the
reduction of excessive
areas - beyond the
capacity of one District
Engineer. It may however
be convenient to admit
subdivisions of the
Districts of Godavery and

and Krishna - and
possibly Tanjore - as
they will stand even
after the subdivision
proposed some months
back. At the outside
therefore 25 or 26 - provi-
-ding for the new
Districts - Rivers of
the Grade of District
Engineers are required
for the Presidency - Exclusive
of course of any required
to fill Equivalents appoint-
-ments in the general
administration - and
no District should
be subdivided if it
possibly

possibly can be
avoided. I look upon
the maintenance of the
District organization
as of the utmost im-
portance & I hope that
the time may not be
far off when with pro-
per means raised for the
maintenance & improve-
ment of irrigation
works & the grant
for agricultural ordinary
works properly distri-
buted to Districts
Each District may
become more or less
Self-supporting, as
regards

respects D.P.W. Establish-
ment, from Local
Funds aided by
percentage under
Imperial & Provincial
for work supervised.
If District Establish-
ments were localized
and placed under
District Officers and
Municipal bodies,
we should soon find
that they would be
organized & managed
more in accordance
with the works to be
undertaken & money
available.

Under the District
Engineer

Engineer a moderate
number of Assistant
Engineers somewhere
Exceeding two (2) per
District, would be
required, who with
as many Upper
Subordinates & Taluq
Overseers as maybe
necessary should
Constitute a District
Establishment. In
Small Districts such
as Canara & Trichinopoly,
and almost without
Exception in the new
Auxiliary Districts-
one District Engineer
with the requisite Subordinate
Establishments

225 26

Establishment should
amply suffice. The
District Engineer is an
Executive Officer in
so far as he is responsible
to see work efficiently
executed by his Subor-
dinates & Contractors.

Having let the
Chief Engineers & their
Deputies free from
Secretariat obstructions
& them more appropriate
duties & placed them
in their proper position
in relation to the
work of the Subordinate
and having Consolidated
Effective Districts
Establishment

Establishments, the
Superintending Grade
— now 6 in number —
may, I think, be
reasonably reduced.
The Committee of 1869-70
recommended, I believe,
two Superintending
Engineers. Three would
amply suffice under
the proposed reorganization.
This Grade is absolutely
non-Executive; they
have simply to see that
the Executive in the
Districts within their
respective Ranges

do their duty, to require
into shortcomings and
failures & otherwise
provide for the investi-
gation of important
projects within their
respective Spheres
of duty — An over-strong
Inspectorate does
more harm than good,
weakens real responsi-
bility, where it should
be strongly insisted on,
viz: in the District, &
otherwise clogs the
wheels of Administration

The† four northern
Districts with Rajahmundry
should

† Ganjam.
Vizagapatam
Godavery
Kristna
Nellore.

should constitute
one range with the
Raghavendra at
Head Quarters. The
Chief Engineer and
his deputies might
retain the Presidency
District, Chingleput
and Bangalore under
their more immediate
observation occasionally
visit the Hills. The
Southern Districts with
Constitute one Range
with Tanjore or Trichy
as Head Quarters
and the Ceded Districts
with North Arcot, Salem
& Coimbatore should
constitute

+ S. Arcot
Tanjore
Trichinopoly
Madura
& Tinnevelly
Head Qr. Pollore

constitute a third
range - Malabar
Canara should be
visited occasionally
by special deputation
of a Deputy Chief
Engineer, for as a rule
there is little doing
in either District, that
requires frequent
State inspection or
report. The Ranges
which I propose are
large but not unmanage-
-able as respects work
requiring an Inspectors
observation; for it is
simply futile to attempt
to

to attempt to organise
a State Inspectorate
which should bring
Local Boards and
Agricultural Ordinary
works and the like
within the reach of
the personal observation
of a highly paid State
Inspector. Nor is it
useful; for a first
District Engineer is
practically an infinitely
better Inspector of
such works than any
Superintending Engineer
could be, even if it
were

possible to afford
8 or 10 Officers of this
grade.

Such is roughly
the cost of the reorganis-
ation which I would
recommend as regards
Superintending or as they
should be called Inspecting Engineers. But
it may be useful to
review the actual
working of the thing
at this moment. We
have as already observed
a Staff (5) five Superin-
tending Engineers with
respective Salary Stocks
- but there is actually
not one of these Officers

doing the duty of this
to a Circle — one (Col. Forsyth)
a [illegible] a Deputy Chief Engineer
who and under Secretary
to Government & many
of Engaged in these work
we and the four Chief
we are District Engineers
the without any inspecting
of duty whatever attached
to these functions, although
nominally they draw
the pay of the grade.
The thing is without
parallel in any other
Department of the
administration and
probably account for
much of the existing confusion.
The

On the whole
I am satisfied that
the matter has been
taken in a firm and
somewhat drastic
form & I would not now
reorganize the Department
without that searching
scrutiny and retrench-
ment which are now
unavoidable. Although
the Govt. of India and
Northern Administrations
have realized — as we
have long done in this
Presidency — that the
Establishments of the
D.P.W.s as now constituted
throughout India are

to beyond the needs of
the Country and costly
and Extravagant beyond
the nature of the work
ordained & be performed;
and they are I believe
reorganizing with large
retrenchment. We
should follow the example
of a Think Convention on the
principles I have
ventured to sketch.

The undue preponderance
of cash (and possibly
not altogether reliable)
European Subordinate
Executives in the Depart-
ment requires the earnest
attention of Govt. and
reflects

reflects I think on the
Superior Officers

The effective reorganization of the District Engineer System should enable reduction in Account Dept by limiting the number of Officers of Account & the Controller

Sound reorganization will affect the Constitution of the Service & adjustment of grades in some degree throughout the Department, but it will be found that the semi military Spirit which underlies the organization of a purely Civil Executive Department

militates against
both financial and
administrative Department,
and should hold —
disappear.

To Sum up, I recommend:—
(1) That large reduction
of Establishment-rent
be effected.
(2) That the Govt. Secretariat
be reorganised and an
Under Secretary be appointed
in charge of D.P.W.
Correspondence.
(3) That Chief Engineers
be relieved from all
Secretariat duty.
(4) That the D.P.W.
Inspectorate (5 Superintending
Engineers) be reduced
to 3 with fixed ranges of
Inspection.

(5) That Divisional Establishments be reorganised on a reasonable & uniform Scale.

(6) That the Cost of the Account Department be reduced - and

(7) That the Department be regarded with reference to requirements of the Service & be performed and not with reference to the Mt. Writes Apts-

Yours
[illegible]
1/17

Minute

I have Examined these Statements of the proposed redistribution of the D.P.W Service in the Great Care and regret that I am still unable to endorse the proposals as Embodying those measures of Economy Executive Administrative and financial Control which are urgently needed in this Dept of

of Public Works in
his Presidency - in
regard to which I felt
that the opportunity
afforded at this time
should be effectively
availed of.

The Surveyor-Chief
in subordinate and
his Establishment to
which the Controller's
able remarks and
apportionment has
reference, simply —
demonstrate, as I
believe, that of the
same character many
pulations were carried
- and the more costly

Costly grades of the
Establishment, the
Expenditure under
this head might be
reduced to 17½ to 18
lakhs a year - a small
sufficient percentage
of the moderate —
annual allotment
under all the
Expenditure, which
have to be worked out,
and I believe, as
I have always indicated
that the only effective
mode of dealing with
this question is for
Government to decide
what they will be spend

to

a

c

c

c

Chief Engineers of the Executive branches of the Service in the Govt Secretariat. The course of the redistribution arrangement before me shows how the true functions of the heads of Departments may be one place where ministerial Conditions for Book in Vain amongst these papers for the recorded views of these important functionaries as heads of Departments

as the proposed redistribution or those of the Board of Revenue (as Controller of Land Expenditure) and I confess that I think that there is a serious defect in a matter of this kind.

But it is perhaps mainly as a matter of financial control that the conditions which it is proposed to continue fail, and seem bound, to come thereafter. It will not I contend be

2 connected that the financial control of Govt. sit Secretariat is or has ever been practically effective throughout the Dept. and get the main duty of the Govt. and its advisers is respect to spending Departments in their direction - to position of Govt. is main duty of the Treasury in respect to financial Control and get for these duties

duties, the Govt. have practically to look to Executive heads of administrative branches of the Department and, as I believe, must look in vain under the ordinary condition of such a system - or rather traversal of system & principle of administration. Let the Govt. ask the Controller whether he finds that he is exercising that effective Control through the

Govt. thinks this information indirectly, & has satisfactorily ask the Board of Revenue whether the fine that they practically Enjoy the financial position which their responsible Collectors whether their functions in respect or in some other respects are not bound local administration Require or these points shall be ing to invite the attention

of my Hon'ble Colleagues to the Controller's letters of 13th April 1878 No 114 W
of 17th April 1878 No 119 W
of 13 Augt. 1878 No 222 W.
- all as yet undisposed of - and to ask whether they disclose a state of things which the Govt. can accept as proper in itself or of which they are justified in disregarding their possible consequences.

I confess that these letters read to me like an unanswered impeachment of the Grand action of Govt. Better as it may

the Certain fare letters
such as it should not
be possible for an
Officer in that position
to address to Govt.
and Submit, as I
conceive, in the
Course of business
to the Govt. of India.

I have no fault
to find with the able
Officers who hold &
have held the positions
of Chief Engineer &
Secretaries to Govt.
The interest & proclivities
of an Executive and
Expending Dept. &
of its
and Managers of its
personnel are not
& never can be altogether
above with those of
financial Control
& Strict discipline

of Salem & Sta[illegible] 3rd
are more or less out
of order in respect
to financial discipline.

I have no fault
to find with the able
Officers who hold &
have held the positions
of Chief Engineers &
Secretaries to Govt.
The interest & proclivities
of an Executive and
Expending Dept. &
of its
and Managers of its
personnel are not
& never can be altogether
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& Strict discipline

4

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of its
and Managers of its
personnel are not
& never can be altogether
above with those of
financial Control
& Strict discipline

4

in this respect. What I press to Ernest's
on attention is the
natural outcome
of the Conditions
Examined formal,
- of the transaction
Could be acknowledged
Examination in the principle
should have occurred
in the Department
of which I am long
the Executive head,
but I, as Inspector
General of Police,
have been Years
in the Govt. Secretariat
in charge of the finance

and administration
of my own Department
- precisely what would
occur were the Commissary
General, the Inspector
General of Jails or the
head of any of the
Executive Departments
Department called
to the same position.
I am - as I long have
been - most earnest
on this matter, because
I believe - a belief
to which 37 years'
Experience as a Member
of Govt. has given
the strength of a creed
that to the very keystone

of the financial
position lies in reverting
to sound principle
in this direction; because
I believe that the
forces at our disposal
difficulties of control
lie are inherent in
the transgression of
principle which
existing Conditions
- to be perpetuated
under this redistribution
of functions now
before me - present
I have already
indicated, how
it seems to me, the
needless

51 needless Secretarial
preoccupation of the
Chief Engineers necessarily
leads to Excessive
Expenditure in the
next higher grade
of the Establishment
viz the Inspecting or
Superintending Staff -
And the Appendix
marked A to K.
proposals before
me appear to Evidence
the fact. We are
practically to have
5 more Chief Engineers
with proportionate
Office, an Executive

Charge of 4 or 5 Divi-
sions each, which
are again subdivided
into 38 ranges (Divisions)
or independent
Districts, with their
Officers in account
with the Central Office
to see to me, the real
functions of the
Inspecting Officers
are lost in those of
the quasi responsible
Deputy Chief Engineers
(Superintending Engineers)
of Circles & the little
Gain which results
from

	Districts.	Rly*
1st Circle —	4	— 9
2d — do: —	4	— 8
3d — do: —	+4	— 7
4th — do: —	+5	— 7
5th — do: —	4	— 7
	21	38

* Plus the Bangalore Cantonment
+ includes the neighbouring City
(X) by Chiefly the Consulting Architect

from the reorganization
of 1872 - Consequent
on the labors of the
Commission, which
Sat in 1869-70 - in
replacing the District
Engineer in Local
measure in his
proper position as
the point of Executive
organization and
local administration
is foregone. We
are simply reverting
- under some change
of nomenclature - to
the condition of Defy
Chief Engineer of Circle
(Superintending Engineer)
with

with a range of Affairs
organizations, somewhat
reduced as regards
numerical distribution
& Extended in territorial
charge but stable in
& compatible with the
fundamental principle
Four Civil administration -
The thing has already
been Condemned
& unwanted hours
administration
Conditions and hours
have in charge
& respects Superintending
Engineers for years -
And I regret to find
myself therefore wholly

6

wholly unable to
support what appears
to me a serious traverse
of sound administrative
& respects both Executive
Control & financial
and the duty of ~~my~~ deputies in
administrations, in
regard to this Presidency
What we want
in this Presidency is
real financial Control
in the Govt: Affairs by an
Officer, who shall be
relieved in the main
from Executive responsi
-bilities and other
disturbing influences
which necessarily
attach to Executive

heads of Departments.
we then want to the
Heads of the Various
branches of the
Commissioners freed
to devote their whole
time to their Scientific
& controlling duties
and under them
are required a
Concentrated District
organization - with
a moderate Staff
of Inspecting Engineers,
who shall see that
the District work
is done and bewait
examined in
Elaborating

Elaborating the very
few works of large
importance, which
- with the means at our
disposal - we can
possibly hope to under-
take from year to year
in any District.
The distribution of
me, with what practically
constitutes 7 chief
Engineerships of grade
and 38 District -
Engineerships with
their Office Establishments
does not in the
main present those
conditions and I am

unable to accept it as meeting the requirements of the Country financially or otherwise

It is difficult to deal with Appendix B of the proposals, because the average Expenditure in the proposed Army (Division) and the Establishment designed for each Division is not shewn, and other statistical information & local advice are wanting

I am waiting and the 2nd time I have written to the Somerset to ask for Statements before me do not give any reasons for the proposals submitted. Territorial Considerations however appear in the main to have guided the distribution and I think that in Virginia West these arrangements are defensible.

I observe that the Fortress Division is broken up into 3 or 4 independent Army Corps and I should be willing

willing, as already
stated to give two
Steps of the Grade of
and Emoluments of
District Engineers
to this District. But
I find a 3d range
constituted out of the
Lakes of Raphanus
Geneva, Indiana & Ellora.
and also the
(misplace)
under Knobtown) to
be constituted a 4th
Range of this District
Now the Lake Fillore
with its high level
Canal & other territorial
Conditions belongs

to the Western Delta
(a proposed very
moderate range
of 3 Lakes for a high
Grade Officer) and
the other two dry Lakes
even if we added —
Dunnageden in the where
we are now spending
2 Rupees on Estable to
a mere for every rupee
of work performed —
it is nothing but that
an Assistant to the
District Engineer
of the Northern range
could more than
one Lake; but in
the proposals before

me, we have, I gather,
two independent
Ranges in place of
one Executantship,
which I think should
amply suffice for all
that is doing in the
two ranges proposed
The same observation
applies to the range
distributions of the
Krishna District. The
Palnad Taluq and
Bezwada should
be added to the Eastern
Delta District. The
proposed charge of
the Western Delta is

&

is composed of 2 Telugu
- a Mohammedan range for an Assistant
in the positions, and
Enjoying the Emolument,
of a District Engineer.
Now I am satisfied
that the ordinary
Expenditure in the
dry talugs of Kurnool
: Cuddah, Satenpalli &c
with at once indicate
Suitable Employment
for an Assistant
on moderate Salary
to the District Engineer
in charge of the Western
Delta or in visits to the
possible

possible Constitution
of a new District of
Ongole, one or two Talugs
might be joined to the
Ongole range of Hillocks
As respect before
and in View to the possible
Constitution of a new
District of Ongole,
I would
Division - I will
not remark on the
proposed distribution
of Talugs, which I
think is defective
not what the local
Officers would recommend
as to a minor
matter I detail but

the distribution of the
I think provided for
Cumbum & Markapoor
of Kurnool, which
suitably belong to
this Executive Charge.
As respects Cuddapah
there is no Sufficient
ground for breaking
up the District as
Station of Constituting
2 Districts in the
head. ~~The Kadiri~~
~~Talug belongs to the~~
~~Anantapore Division~~
of Bellary & the
remaining Talug
of Madanapelly, Rai-
-chty & Vooliapa Constitute

a change on which the District Engineer of Cuddapah might spend all his employ his Assistant.

Nor do I find sufficient grounds for breaking up the District Divisions of North Arcot. The District Engineer would find his main occupation in the Southern & Palar Valley Talugs, while his Assistant would be suitably employed in the Zamindari tracts

& tracts and dry talugs of the North. Two Districts are not required.

The same observations apply to the District of South Arcot. What is there doing or likely to be done (the main) dry talugs of Villupuram, Tindivanam and Tirukoil- or Even if we add to the Charge, as ought to be done, the Talug of Kallakurchy - which would justify the constitution of

Separate

separate District
Engineership for the
Canals? That the
Consultant to the
District Engineer of the
District could not
look after under the
direction of the
Superior Officer.

Having dealt fully
whether the District
Administration of
Coimbatore need be
broken up as proposed
and I am satisfied
that a District Engineer
for Malabar with
a Consultant would
suffice

employed before for the
what is proposed to
constitute the Northern
Range would quite
suffice for the Distr
under the financial
Exigencies of the case

Nature of object b
breaking up the distric
Administration of
Madura & Tinnevelly
There is absolutely
nothing in the proposed
new District of Dindigul
which can justify
its separation from
the District of Madura
and constitute a
separate Division

or District rules
a Superior Officer
and in respect the
proposed Salaries (Examiner)
Range (Division) I
Conceive that it
would be difficult
to show that it would
Constitute a reasonable
change for an
assistant to the
District Engineer
of Vicinity.

I am not competent
to examine in detail
the Appendices C & D
("Grand abstract
of Office Established
& accounts") but I

10 It is obvious that
the Constitution of
5 Resident Offices for as
many D.E. Chief Engineer
(Superintending Engineer)
of Circles instead of
Offices for inspection
and Estimates of 6 or 8
needless Range Offices
prevent retrenchment
in the manner which
strict adherence
so far as possible
to the District Engineer
System would further
reduction of the
Offices in account
with the Controller
would provide.

Appendix F. (Comparative statement of percentage of Establishment") is I felt more or less of relevance; it is useful Comparing ourselves with ourselves with the usual result; and we have no reason to assume that the Standard, put forward ("per centage of Indian Establishment") is one framed in accordance with strict Economical necessities of the work to be performed and of the requirements of the Country

Country & its about 67
to support such
Establishment as a
whole. I have reason
to believe that the
same excess of Establish-
-ment obtains in the
P.W.D. is engaging
the attentions of thought-
Indeed Be this as it
may; we have simply
to do with our own
conditions & Expenditure
and with reference
to these I hold that
that our Establishment
is susceptible of very
material reduction
of cost by sound

reorganization and
more efficient financial
Control - and that it
is our duty to submit
to such retrenchments
whatever may occur
in other parts of India
Appendix F (red ink)
(Percentages of establish-
-ment as compared
with grants for works &c)
is a very momentous
Statement. It shows
that between 1/4 & 1/3
of all our D.P.W. Expenditure
in India is absorbed
by Establishment =
that on the ~~the~~ average

11

of 3 years (1874-77) our
Expenditure on Establish-
-ments has exceeded
1/4 of the whole grant
and that for the
current year it will
Comparatively Exceed
of the Total grants
1/3 rd. All the Expenses
above 1/4 having to be
supplemented, whether
from the Provincial
grant under this head
has ended Creating
financial Embarrassments
of the Empire, we cannot
claim to have our grant
maintained, tho it is
the demand on Local
funds

Finally is such an Executive much to be criticism thought to be Pandering; for our Intercourse, as it appears to them, and was a kind of financial control is unavoidable but before a large body of the Patriotic Members of our local Boards all over the Country. We must therefore let our house in order & it can only be done by drastic reorganization to effect the financial

control. Such as I can at present write my Humble: Measures be considered at this time.

In fine I must record my conviction that the retention in its strictest form of the District Audit (with due inspection only) is the very sheet-anchor of any suitable organization and future development in this Department for the Madras Presidency - we must decentralize

administration and
Establishment charges
on Districts in the same
manner as the Govt:
of India has distributed
on Local Administrations
throughout India. —
Every endeavour must
be made to bring
Each District into
Self-Supporting
Condition - both on
administrative and
financial grounds,
and it will, I believe,
by no means be difficult
so to do. Should rapidly
developing Local Funds
Contribute employ

12/ in Several Districts to
towards the cost of the
whole District Establish
=ment - We may Confidently
look to them for 5½ to 6½
lakhs towards Esta=
=blishment Expenditure
in future. If the
annual Grant of
10 to 12 lakhs under
Agricultural Ordering
be Equitably distributed
as a Local Fund to the
Districts subject to the
Local Grant for ordinary
Communal irrigation
works properly belong,
instead of being held
at Centralized Disposal

as now. We have
a further local fund
of some 12 lakhs and upwards,
from which Establishment charges
& the Salaries of 2½ to 3 lakhs,
may be met. Any
irrigation Cess for the
maintenance and
improvement of any
Command & District
Systems of Tanks is
an obvious necessity
(about 4 annas per
being strictly constitutes
a local District fund
and the whole agricultural
Revenue Grant being
localized) for

(Redemarcament)
Customary tenant
labour is a domestic
and Communal matter
with which the State
has nothing whatever
to do and against
which it has no
claim - Such a tank
Cess at 6 pies in the
Rupee for a Command
tank Revenue of 100,000
(in round numbers)
would produce 25 to 30
lakhs with a provision
for Establishment of
5 or 6 lakhs. Such a Cess
under Provincial D.P.W
(12 lakhs), if properly
assigned to Districts

administrations
provides stable for
Establishment - the
Imperial Contribution
for State works would
go to make up a sum
which would provide
for the useful local
Establishment for all
Districts + leave a
large margin - with
proper retrenchment
+ financial control -
for lowering all our
demands on local
funds, whether -
existing or prospective,
as the Tank Ceos still

is - of course the
Establishment charge
for Ardent tracts
would remain Imperial
as the works are neither
local nor Communal.

I do not offer these
rough Calculations,
or Amounts as in
for I have neither the
means at hand nor
the time to work out
the details but I look
forward with confidence
to the time when Govt:
may say to each District -
You must find the
ways + means for
maintaining your

Your own Public
works established
& may frame them
according to your
local needs - with
sufficient margin
to meet needful charge
for inspection and
general administration
in such a manner
that the whole shall
square - with such
aid as you are
entitled to under the
rules for Provincial
& Imperial - with
your own financial
contributions.

I entirely agree
with the Advice to

of the Controller dated
12th Instant, which
forms an Enclosure
to these papers - Except
in so far as he evidently
mistakes the condition
of "Customary labor" in
Para 3 (a). The
Secretary of State
desires to retain both
as 1868 that works
are to be left to the
Revenue Department
- or as I should now
put it, to District Boards
and Local Fund
Boards in Cooperation
with District Engineers,
with power to levy a
moderate

moderate Command
tank repair Cases as
above Suggested.

In Regard to clause 6)
I would Suggest that
the Affairs of the D.P.W
in Communication with
with Chairman & L.F.
Board of each District
should report precisely
what D.P.W District
Establishment is required
in their respective
Districts to execute
all works of a local
character - including
tank Repairs &c - and
the ways & means to
maintain such Establishment
from

from District funds

I have endeavoured
with reference to Para 4,
to suggest how the
finance of the Dept.
can be promptly brought
under more efficient
Control with much
benefit, to Executive administration
& retrenchment of
undue Expenditure -
but I have no objection
to seek to further
a trial suggested.

I have to apologise
to my Honble Colleagues
for the desultory

and incomplete forms
in which I am obliged
to submit my observations
on the papers before
me. The papers only
came into my hands
after late comment
Yesterday (Friday)
and they have not been
circulated Enough
with reference to the
proposed final
discussion of the
Scheme on Monday
at noon. Time for
more mature exami-
nation remains
documents has

been

been waiting
14/9 D Robinson

Proceedings of the Madras Government

P. W. Dept.

Read the following Minute by the Hon. Sir W. Robinson K.C.S.I. dated 17th July 1878 & 20th Nov. 1878.

G. O. No. 3674 W.

dated 18th September 1878

The undue strain brought upon the Provincial finances by the present excess in cost of the P. W. Dept. has long been a source of anxiety to Govt, and was the subject of much deliberation in the year 1876 when the pressure of business which devolved on the Govt owing to the Famine Cannot be

matter to be temporarily
laid aside -

2. The subject having
again come under consideration,
H.E. the Govr. in Council
considers it unnecessary to
defer any longer that thorough
Reorganization of the P.W. Estabt.
which Experience has shown
to be absolutely essential both
to secure greater Efficiency
in the Dept, and to prevent
further financial embarrassment
to the Govt.

3. In carrying out these
changes, H.E. the Govr. in
Council believes that by
utilising to the utmost the
Estabt and agencies that
are available to the Govt, it
is possible, without abandoning
any of the general principles
on which the business of the
Dept has heretofore been
conducted, to secure a great
increase of administrative
Efficiency & at a diminished
cost.

4. As regards the P.
W. Secretariat, the division
of the administrative work
of the Department will at
present continue as laid
down in Chap: III Sec 2 of

the P. W. Code, which fully prescribes the responsibilities of the Chief Engineers and Secretaries in charge of the several Branches and the duties which Govt. have to claim to have strictly performed.

5. All correspondence from the Exg. Engineers will be addressed to the Chief Engineer of the Branch concerned, who will dispose of everything within his own powers on his own responsibility. The Chief Engineer will submit to Govt. only such matters as either may be beyond his own

powers, or may appear to be of sufficient general interest to require an expression of the views of Govt thereon.

6. Each Chief Engineer will be allowed an Officer as Asstt Chief Engr. and Secy to be ordinarily of the rank of an Exec. Engineer, to conduct under the authority and responsibility of the Chief Engr. the current duties of the Secretariat during the absence of the Chief Engineer and Secy on his tours of inspection.

7. The question of the best method of compiling

Engineering Statistics, & of
collecting professional data
and information, and the
Agency to be employed for this
purpose in connection with
the Secretariat Offices will be
reported on by the Chief Engineer
and the Financ. for the
consideration of Govt.

8. The Financ. of P. W.
Accounts, as Chief Financial
Officer of the Dept is to be
regarded as the Financial
Adviser of the P.W. Secretaries
and their Communications
will be chiefly of a personal
nature as members of the

same office, all formal
Correspondence between them
being as far as possible
avoided. All questions
connected with finance &
account will be tested upon
by the Financ. previous to being
dealt with finally by the
Secretary concerned, in order
that Govt, before passing orders
on the case it may have before
them not only the aspect of the
case from a financial point
of view but also the bearing
of all the financial rules &
regulations relevant to the subject.

9. All Gazette notifns
and Govt orders, which affect

the pay or service of P.W. Officers
Examination
will be submitted
to the Exam.r before issue to
ensure that the prescribed
restrictions or orders are in
no way opposed to any rule
or regulation of the Govt of India
and provide for all necessary
formalities -

10. The respective responsibilities
of the Chief Engineer and the
Exam.r in controlling the
expenditure of the Dept.t is
very clearly defined in the
P.W. Code III. i. 24 and III
i. 14 - Briefly, it is the
duty of the Exam.r to bring all
items of objectionable expend.e

to the notice of the Chief Engr.r &
it is the duty of the Chief Engr.r
to summarily put a stop to
all irregular expend.e directly
his attention is called to it.
Both the Govt in Council have
laid down very clearly
that every effort will be made
to reduce the number of items
of objectionable expend.e that
month by month are now
brought to notice of Govt.

11. To enable the Chief
Engineers and the Exam.r to
satisfactorily carry out a proper
control over the expenditure
of the Dept it is to be considered
an essential principle that
all expend.e whatever charge is

with Imperial & Provincial
P.W. grants is to be sanctioned
in the P.W. dept. No other dept
of the Govt will take any steps
that will commit the Govt to
suspend. in the P.W. dept until
the responsible officers of that
dept have had an opportunity
of deciding whether the State
of the P.W. grants will admit
of the suspend. being incurred.

12 As regards Local
Fund works, H.E. the Govr
in Council is of opinion
that hitherto there has
been an absence of that
professional supervision &
control by the Chf Engineer
which are essential to the
satisfactory execution of Public
Works.

13. The principle involved
in the administration of Local
Fund Works is to leave all
financial arrangements & the
initiation of works in the
hands of the Local Fund
Boards, & to leave the
Engineering & the accounting
for such works in those of
professional officers, under
definite professional control.
The Chf Engineer will therefore
consider himself as directly
responsible for the professional

cutch of Public works carried
out from Local Funds as
for those carried out from any
other P. W. Grant - besides
for Local Fund works, the
cost of which exceed Rs 5000
will be submitted to the Chief
Engineer for professional
check, and the formal sanction
to the estimate for such works,
after the approval of the
Board of Revr has been
conveyed in ordinary course
to the project, will be
given in the P.W. dept, the
necessary funds for the
execution of the work being

provided in the Financial
dept on Proposals for transfers
of Local Fund appropriations for
public works, which exceed the
powers of the Bd of Revr will
be dealt with by Govt in
the P.W. dept -

(one words space)

14. For purposes of supervision
the Presidency will be divided
into 5 Circles, each under
charge of a Exg Engineer or
of an Exec. Engr of not less
acting as such - The Head
Quarters, and territorial
limits of each of these Circles

are shown in App.x A.

In the Office of Each Supg Engineer will be attached an Asstt Engineer to act as Asstt to the Supg. Engr. and to carry out under his authority & responsibility his current duties in the Office during the absence of the Supg. Engr. on duty.

15. For purposes of Construction, Each Circle will be divided into Executive Divisions, Each of which will ordinarily be in charge of an Exec. Engr. or some other Professional Officer of the Engineering Establishment. The names

of the Divisions, altogether 39 in number, are shown in App.x B. The question of territorial limits to be assigned to Each Executive Division is referred to the Chief Engineers for early report in communication with the Collectors of the Local P.W. Officers, (the importance being borne in mind) of making the limits of the P.W. Executive Divisions as far as possible co-terminous with those of the Local Fund Circles.

kept in view

16. The duties, powers and responsibilities of the Supg. Engineers and of the

executive Engineers will be found very fully described in Chap III. Sec ii and iii of the P.W. Code.

17. The numbers of the Engineer Officers attached to the Presidency being sufficient for the proposed new charges, no change is at present intended in the strength of the Engineer Establishment, except that with the sanction of the Govt of India, two 2nd Grade & four 3rd Grade Civil Engineers will be substituted for the present sanctioned number (seven) of 3rd Grade Civil Engineers, the number of charges involved in each case being nearly the same.

18. Writerships and the Upper Sub^s, the Lower Sub^s, and the Petty Establ^ts no final arrangements will be decided upon until the Engg. Engineers have acquired some practical knowledge of the requirements of their several Circles.

H.E. the Govr in Council believes, however, that the numbers & cost of the Overseers, the Lower Sub^s & the Petty Establ^ts, especially of

the Divisional Establt, will be formed to be in excess of permanent requirements under the new arrangements, and that it is advisable with a view to securing greater elasticity in the P.W. Establt to employ temporary hands to a far greater extent than has hitherto been the case.

19. The Superg. Engineers will as soon as possible after taking charge, review the Subdl & Petty Establts of their Circles, and will submit for the information of Govt statements in P.W. form no 77 showing the minimum number of permanent men they wish to retain of the

Subdl establishments they propose to employ temporary Establts.

20. On savings being effected in the cost of the Subdl and Petty Establts, H.E. the Govr in Council will be prepared to consider the advisability of appointing to each Circle a small permanent Establt of qualified Surveyors.

GAT 7/9

21.

20. As regards Post Offices Postal Dept. and the Tel. Dept. of Accountants, the reduction in the number of the P.M. Offices will lead to a considerable reduction in the numbers of the Accountants and Clerks employed, and in the aggregate cost of these two Establishments. The Scale of Accountants & Clerks now Sanctioned, which is ultimately to be worked up to in Each Office is shown in Appendices C and D.

22.

21. The aggregate effect financially of all these

charges is shown in Appendix F, containing a comparative statement of the P.W. Establishments existing and proposed - the net result is a saving of about Rs 1.15.000, exclusive of the further saving that is expected in the cost of Subordinate & Petty Establishments.

23. In Appendix F will be found a statement of comparative cost of the several Establishments and of the aggregate cost of the P.W. Establishments as a percentage of the grants for works & repairs compared with similar

Establishments obtaining throughout India, these figures being derived from returns to the Accountant P.W. Dept of the P.W. Budget Estimates for the year 1875-76. From this statement the cost of the Upper Subordinate Establishments appears relatively high, while that of the Engineer Accounts Establishments is very moderate. The charges for Travelling allowances in this Presidency appears to be so exceptional that His Govt. in Council desires that a special report may be submitted to Govt by the Examiner on the subject.

24. Chief Engineers
In the

~~Officers who have been~~
recommended by the Chief
Engineer for the charge of the
Several Circles & Divisions
are shown in Appx. G.

These recommendations
having been approved, Govt
~~[illegible]~~ be notified in the
Gazette ~~[illegible]~~
in order to give the whole
Staff the earliest possible
advice of the arrangements
decided upon.

(One inch space)

25. ~~In~~ In order to ~~[illegible]~~ give effect to these orders
~~[illegible]~~ with the
least possible inconvenience

will at once submit
for the approval of Govt
a List of the Officers
he recommends for the
charge of the Several
Circles & Divisions
on approval, these
officers will

to all concerned) the Chf
Engr will at once take steps to
relieve from their present
charges the five Officers
selected for the charge of the
five Circles of Supervision,
their Officers being appointed
to act temporarily as Distt
Engineers in their places. On
relief, they will immediately
proceed to the Head Qrs of
their Circle & there take
over charge of the District
Engineer's Office.

26. On their taking
charge as Supg. Engineers
of the present District Engrs

Office at the Head Qrs of the Circles, the present Distt Engineers in the Circle will proceed to take charge as Exe Engineers of the present Range Offices at the Head Qrs of the Division to which they are appointed. The records of the District Engr Offices will then form part at the Head Qrs of the Circle, together with one or two clerks from each Distt Office (as may be locally arranged by the Superg. Engr) will be transferred to the Head Qrs of the Circle, and the clerks so transferred, together with the whole Establt of the Distt Office at Head Qrs with form the provisional Establt of the Superg. Engineers Office.

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27. In a similar manner the records & the Establt of the present Range Offices will be distributed to the new Distt Offices, and the clerks so transferred will form the provisional establishment of the Divisional Offices - Nominal Rolls, showing the distribution of the existing Establts amongst the various Offices in the Circle will be submitted as early as possible by Superg. Engineers to

the Scale, to admit of the Salary then being duly audited - All subsequent transfers of the Establ^t will be similarly advised -

28. The Scale of Office Establ^t to be ultimately worked up to, as shown in appendices C & D annexed, it will be noticed, of fewer Clerks & Accountants with slightly increased Salaries, than those classified in accordance with the P.W. Code. Chapter I. Sec 2. 10-12 - No immediate reductions, appointments or promotions will be carried into effect in order to make the working Establ^t agree with the new Sanctioned Scale - This latter will be gradually arrived at only as Casualties occur.

29. In the Office Establishments, on the occurrence of a vacancy, it will be open to the Superintending Engineer concerned to utilise one half of the Salary thus made available in making promotions of properly qualified persons to the minima Salaries of the Sanctioned Grades to which they may be appointed -

their half of the Salary
will lapse to Govt as a
saving - Without the special
Sanction of Govt, no new
appointments will be made
until the excess Lands have
been completely absorbed -
The Govt will be held
responsible for reporting for
the orders of Govt any Case
of the kind that may occur -

30.

H. The above remarks
do not apply to the Office
Establt of the Secretariat,
of the Presidency Engineer &
of the Consulting Architect to
Govt, in which no change

has been made beyond
classifying the present
Office Establt - In all these
Cases, the Clerks will draw
the minima Salary of their
Grade together with such a
number of increments as may
make their total Salary at
least Equal to what they
are drawing at present -

31.

H. In order to keep
the whole Offices body of
alive to their duties
and responsibilities under
the new arrangements, H.E.
the Govr in Council desires
to impress upon the P.W. Code

Committee the desirability
of completing the P.W. Code
at the earliest possible date.
The Chief Engg. Engrs., and
the Secrets. will bring before
notice of the P.W. Code Comm.
any clauses in the Code
they may deem inapplicable
to the present circumstances
of the Dept, and these, if
found necessary will be
modified in ordinary course
by the issue of Standing
Orders.

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3. With these
modifications, H.E. the

Govr. in Council looks to
the Chief Engineers and to
the Secrets. in their several
branches of the Dept. to
see that the whole of the P.W.
Code as issued is scrupulously
adhered to, and that the
time of Govt & of all Officers
concerned is no longer
wasted by a general want
of method & system throughout
the Dept & by constant
references on minor points
of principle or practice
which will be found once
for all clearly laid down
in the P.W. Code for general

information -

33. The manual for the
Overseers in the P.W. Dept.
and the Book of Specifications,
the former of which has been
a long time in type, should
also be taken up &
completed by the P.W. Code
Committee -

L. Conway-Gordon
Secy.

Sept 12th 1878.

Issued in accordance with
the orders of Council, held on the
16th Sept 1878

Sept 17-9-78-

Ch. A. Engrs.
C. & Gen Sts
C. & Ms. Dept
Cantonment Engr
Co. Architect & Surveyor
Ex. Engr
Civil Engr
Mech. Dept
Electrical Dept

No: 3675 W d/ 18 September 1878.

To the Secretary
to the Govt of India. P.W. Dept

I am directed to forward
for the information of the Govt
of India the accompanying
Copy of G.O. no 3674-80 dated
18/9/78 introducing certain
changes in the organization of
the P.W. Dept in this Presidency
changes which have been
found absolutely necessary to
secure Efficiency & Economy
in the Department -

2. I am to say, that
broadly speaking, the

Seen 19 Sept 1878
Copy transmitted for Hy & Hdq
with accompg Desp. from Govt. of
India.

changes that have been
introduced have taken the
form of a close assimilation
of the system in Madras to
that obtaining in the Provinces
under the immediate Control
of the Govt of India. The
Presidency of Madras has
now been divided into
5 Circles of Supervision
and into 39 Executive
Divisions. Each of which
is to be held by a Professional
Officer of the Engineer
Establishment. To each
Executive Division will be
further attached a Competent

Accountant of the 3rd or
4th Grade.

3. As regards the P.
W. Secretariat, in deference
to the suggestion of the Govt
of India as expressed in their
letter no 308. E. G dated
20th February 1877, no
change has yet been
introduced. But I am to
state that the further two
years experience of the present
system, ~~modified~~ as suggested
by the appointment of Deputies
to aid the Chief Engineer a
Secretary, has in no way
altered the opinion of the

Grace the Govr. in Council
on the grave inconvenience
to the Govt that results from
employing the responsible
Executive Head of the P.W.
Dept as Secretary to Govt
in his own Dept.

4. This Govt still
earnestly desires the change
carried out to which they
requested Sanction in their
letter no 1,920 dated
28th July. 1876, and thus
to have the separate and
distinct functions of the
Chief Engineer and Secretary
to Govt held by separate

Officers. I am therefore
again to urge upon the
attention of the Govt of
India the arguments
adduced in the letter above
referred to, and to
request the favorable
consideration of the application
therein submitted, as His
Grace the Govr in Council
is convinced that it is
only by a practical
recognition of the principles
which govern the administration
in every other Dept of Govt
that the P.W. Dept will
without inconvenience be

maintained in an Equally
Efficient State -

5. In the Strength
of the Engineer Establ.t, no
change is essential, but
it would be desirable to
substitute two 2nd Grade
& four 3rd Grade Asstt Engineers
for the present Sanctioned
number (Seven) of 3rd Grade
Asstt. Engineers - The
present Sanction of 3rd Grade
Asstt. Engineers is seldom
availed of, the Engineer
Establ.t being practically
recruited either from the

Officers of the Royal Engineers
or from passed Students from
the Civil Engineering College
at Cooper's Hill, both of
whom with rare exceptions
join the Dept in a higher
Grade than that of 3rd Grade
Asstt. Engineer - To this
slight modification, securing
as it does a Saving of
about Rs 600 per annum,
H.E. the Govt. in Council
conceives that no Objection
will probably be raised -

6. In the Subordinate
and Petty Establ.t, no
immediate change is proposed

a total length of about 430 miles. It is therefore the opinion of this Govt absolutely necessary to form the whole Canal into a separate Executive charge.

8. Should it eventually be found that the present S.W. Establt is insufficient to provide efficiently for this additional charge, the sanction of the Supreme Govt for the additional Executive Engineer will have to be applied for. Even in this case, the increase of Expenditure will probably be more than made good, as it is confidently expected that the increased traffic receipts on the Canal will more than cover the increased maintenance charges.

9. On this subject the Govt of India will hereafter be separately addressed. At present I am to say that whatever decision is arrived at with regard to the maintenance Establt of the Buckingham Canal, the changes already carried out in the S.W. belt of the Presidency Canals deserve to be

Reorganization Papers.
Distribution.

To whom	40 Copies of G.O No 3674 W of 18 Sept 1878 without Minute.	12 Copies of G.O No 3674 W of 18 Sept 78 with minute	40 Copies of Letter to Govt of India No 3670 W of 18 Sept.	40 Copies of Appendices.
	40	12	40	40
Dt Engineers	22 118	-	-	22 118
Ch Engr for Irrigation	1 - 8	-	-	1 8
Ch Engr Mr B	1 "	-	-	1 "
Cons Engr Kyp	2 "	-	-	2 "
Cons architect	1 2	-	-	1 2
Kyp Mr A	1 14	-	-	1 14
Fuel, &c Depts	1 6	-	-	1 6
Rev Dept	1 20	-	-	1 20
Milty Dept	1 11	-	-	1 11
Rev Famn Dept	1 20	-	-	1 20
To Govt of India	- "	1-25	1-6	1 25
Attached to original	- "	1	1	1 "
Col Farewell	"	1	1	1 "
	32	3	3	35
Received in the Dist Dpt from the Press	221	105	6	221
Distributed to all concerned	192	25	6	217
Number delivered to the Record Dept	29	80	"	4
At Ooty Office	8	9	37 *	5

* 9 copies copies returned at Ooty & 28 sent to Madras.

Abstract.

Value of Work performed by the Lithographic Department under the following Heads.
for the Calander year 1875.

	Total in each Head		Total	Grand Total.	Remarks.
Surveyor Genl's Office					
Plans	6,506	12 .			
Diagrams	268	. 6			
Cheques	593	12 .			
Manuscript Drawings	25	. .			
Provincial Civil					
Plans	10,999	11 3			
Maps	2188	4 8			
Diagrams	152	13 .			
Cheques	1,502	. .			
Manuscript Drawings	411	. 6			
Crown Lands					
Plans	286	2 9			
Diagrams	36	6 6			
Manuscript Drawings	2,723	13 5			
Miscellaneous					
Tables	112	8 .			
Diagrams Reports & Manual	631	6 6			
Manuscript Drawings	533	4 4			
Crown Lands Department	242	8 .			

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Govt: Litho: Deptt
Fort St: George
12th February 1876

/Signed/ R. I. Baldrey.
Supt: and Manager.

/True Copy/

W. B. Baldrey
Supt: and Manager.

Statement showing cost of the Government Lithographic Department and expenditure of Stationery &c. with the Out turn of Work for the Calandar year 1875.

Permanent Establishment.

Superintendence	Draughtsmen	Printers	Pressmen	Tracer & Store Keeper	Tracer & Moochee	Sweeper	Total Cost.	Grand Total
3,000 - -	6,480 - -	528 - -	1,080 - -	300 - -	192 - -	36 - -	11,616 - -	

Allotted from P. W. D. for Lithographic Establishment &c. Rs. 12,216 - -

Temporary Establishment.

Superintendence	Draughtsmen	Printers	Pressmen	Tracer	Moochee	Sweeper	Total Cost
	135 - -	190 - -	133 - -				458 - -

Contingent expences Stationery &c.

Contingent expences	Stationery &c.	Total Cost.
366 11 7	1,241 14 -	1,608 9 7

13,682 9 7

Deduct Mr. C. Baldrey's Salary for 11 months and Mr. F. Pope for 12 months as their services were given in the Technical Department Rs. 1780 - - (345)

Balance and Total cost of Litho. Deptt. - 11,902 9 7

Out turn of Work

Lithographic Work. (Plans.)

Plans Lithographed.

		No. of Copies printed	No. of drawings	Size of each drawing in Inches L	B	Area of Drawings Sqf. ft.	Sqf. In.	Area of printed Copies Sqf. ft.	Sqf. In.	Value of Plans average market rate. For tracing & drawing on tracing paper @ an average rate Re. 10 per 100 Sqf. Inches.			For painting matter inclusive of paper @ an average rate 2 annas per 100 Sqf. Inches.		
1	Six plans of Filter Cart &c. by Dr. Nicholson 325 copies each	1950	1950	21	16	14	-	4550	-	201	9	7	819	-	-
2	Plan of Cantonment Thayetmyo	305	305	27	24	4	72	1372	72	64	12	10	247	-	10
3	Do Do Do	305	305	27	24	4	72	1372	72	64	12	10	247	-	10
4	Do Do Do	305	305	24	18	3	-	915	-	43	3	2	164	11	2
5	Levels of Do	305	305	24	15	2	72	762	72	36	-	-	135	6	-
6	Plan of Regimental Gymnasium	80	80	24	18	3	-	240	-	43	3	3	43	2	6
7	Standard Plan of Bath or wheels for Native Troops	180	180	21	15	2	27	393	108	31	8	-	70	14	-
8	Standard design for N. Regimental School	232	232	24	16	2	56	382	32	34	6	4	68	12	8
9	Plan of Cantonment of Rangoon	165	165	24	18	3	-	495	-	43	3	3	89	1	4
10	Do Do Thayetmyo	305	305	33	24	5	72	1677	72	79	3	3	301	-	-
11	Revised Standard Plan of Racket Court Ball and double fives Court	85	85	24	15	2	72	212	77	36	2	3	38	4	10
12	Military Standard plan of Kneeding room for Bakery	180	180	18	12	1	72	271	56	21	9	7	48	13	4
13	Six plans of Filter Cart &c. by Dr. Nicholson 250 Copies each	1500	1500	21	16	14	-	3500	-	201	9	7	630	-	
14	Standard plan of Armorous shop for N. Regiment	62	62	24	18	3	-	186	-	43	3	3	33	6	4
15	Standard plan of Wooden Stand for Hospl. N. Troops	180	180	20	15	2	12	365	-	30	-	-	65	11	-
16	Standard plan of Armorous Shop for European or Cavalry	210	210	24	19	3	24	665	-	45	9	7	119	11	-
	Carried Over	4,377	4,377												

9. Japanese Lithographed in and after the Period of Government use

Plate of Lithographed.

Engraved by Ogata Kenzan

Name of Article	Length	Breadth	Depth	Price
Bowl of Ogata Kenzan	6 in.	6 in.	3 in.	2 yen 50 sen
Tea-cup and saucer	3 in.	3 in.	2 in.	1 yen
Sake flask	8 in.	4 in.	4 in.	3 yen
Incense burner	5 in.	5 in.	5 in.	4 yen 50 sen
Vase, tall	12 in.	4 in.	4 in.	5 yen
Vase, short	7 in.	5 in.	5 in.	3 yen 50 sen
Plate, large	10 in.	10 in.	1 in.	2 yen
Plate, small	6 in.	6 in.	1 in.	1 yen
Tray, oblong	14 in.	9 in.	2 in.	3 yen 50 sen
Tray, round	12 in.	12 in.	2 in.	3 yen
Teapot and cover	5 in.	4 in.	4 in.	4 yen
Water jug	6 in.	4 in.	5 in.	3 yen 50 sen
Candlestick, pair	8 in.	3 in.	3 in.	2 yen
Ash-tray	4 in.	4 in.	2 in.	1 yen 50 sen
Hibachi	9 in.	9 in.	6 in.	5 yen
Kettle, iron	7 in.	7 in.	6 in.	4 yen
Lantern, stone	18 in.	6 in.	6 in.	6 yen
Figure of Daruma	4 in.	3 in.	3 in.	2 yen 50 sen
Figure of Hotei	5 in.	4 in.	4 in.	3 yen
Figure of Fukurokuju	6 in.	3 in.	3 in.	2 yen 50 sen
Figure of Ebisu	5 in.	3 in.	3 in.	2 yen
Figure of Benten	5 in.	3 in.	3 in.	2 yen
Figure of Bishamon	6 in.	3 in.	3 in.	2 yen 50 sen
Figure of Kichijoten	5 in.	3 in.	3 in.	2 yen
Figure of Juro-jin	6 in.	3 in.	3 in.	2 yen 50 sen
Figure of Hotei, large	8 in.	5 in.	5 in.	6 yen
Figure of Daikoku	7 in.	4 in.	4 in.	5 yen
Figure of Ebisu, large	7 in.	4 in.	4 in.	5 yen
Figure of Benten, large	7 in.	4 in.	4 in.	5 yen
Figure of Bishamon, large	8 in.	4 in.	4 in.	6 yen
Figure of Kichijoten, large	7 in.	4 in.	4 in.	5 yen
Figure of Juro-jin, large	8 in.	4 in.	4 in.	6 yen
Figure of Daruma, large	6 in.	5 in.	5 in.	4 yen 50 sen
Figure of Hotei, extra large	10 in.	6 in.	6 in.	8 yen
Figure of Daikoku, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Ebisu, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Benten, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Bishamon, extra large	10 in.	5 in.	5 in.	8 yen
Figure of Kichijoten, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Juro-jin, extra large	10 in.	5 in.	5 in.	8 yen
Figure of Daruma, extra large	8 in.	6 in.	6 in.	6 yen
Figure of Hotei, colossal	12 in.	8 in.	8 in.	12 yen
Figure of Daikoku, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Ebisu, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Benten, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Bishamon, colossal	12 in.	7 in.	7 in.	12 yen
Figure of Kichijoten, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Juro-jin, colossal	12 in.	7 in.	7 in.	12 yen
Figure of Daruma, colossal	10 in.	8 in.	8 in.	8 yen
Figure of Hotei, gigantic	15 in.	10 in.	10 in.	20 yen
Figure of Daikoku, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Ebisu, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Benten, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Bishamon, gigantic	15 in.	9 in.	9 in.	20 yen
Figure of Kichijoten, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Juro-jin, gigantic	15 in.	9 in.	9 in.	20 yen
Figure of Daruma, gigantic	13 in.	10 in.	10 in.	15 yen
Figure of Hotei, monumental	18 in.	12 in.	12 in.	30 yen
Figure of Daikoku, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Ebisu, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Benten, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Bishamon, monumental	18 in.	11 in.	11 in.	30 yen
Figure of Kichijoten, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Juro-jin, monumental	18 in.	11 in.	11 in.	30 yen
Figure of Daruma, monumental	15 in.	12 in.	12 in.	25 yen
Figure of Hotei, heroic	24 in.	15 in.	15 in.	40 yen
Figure of Daikoku, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Ebisu, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Benten, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Bishamon, heroic	24 in.	14 in.	14 in.	40 yen
Figure of Kichijoten, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Juro-jin, heroic	24 in.	14 in.	14 in.	40 yen
Figure of Daruma, heroic	20 in.	16 in.	16 in.	30 yen
Figure of Hotei, colossal seated	30 in.	20 in.	20 in.	60 yen
Figure of Daikoku, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Ebisu, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Benten, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Bishamon, colossal seated	30 in.	18 in.	18 in.	60 yen
Figure of Kichijoten, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Juro-jin, colossal seated	30 in.	18 in.	18 in.	60 yen
Figure of Daruma, colossal seated	25 in.	20 in.	20 in.	45 yen
Figure of Hotei, gigantic seated	36 in.	24 in.	24 in.	80 yen
Figure of Daikoku, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Ebisu, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Benten, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Bishamon, gigantic seated	36 in.	22 in.	22 in.	80 yen
Figure of Kichijoten, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Juro-jin, gigantic seated	36 in.	22 in.	22 in.	80 yen
Figure of Daruma, gigantic seated	30 in.	24 in.	24 in.	60 yen

Plate of Lithographed.

Engraved by Ogata Kenzan

Name of Article	Length	Breadth	Depth	Price
Bowl of Ogata Kenzan	6 in.	6 in.	3 in.	2 yen 50 sen
Tea-cup and saucer	3 in.	3 in.	2 in.	1 yen
Sake flask	8 in.	4 in.	4 in.	3 yen
Incense burner	5 in.	5 in.	5 in.	4 yen 50 sen
Vase, tall	12 in.	4 in.	4 in.	5 yen
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Teapot and cover	5 in.	4 in.	4 in.	4 yen
Water jug	6 in.	4 in.	5 in.	3 yen 50 sen
Candlestick, pair	8 in.	3 in.	3 in.	2 yen
Ash-tray	4 in.	4 in.	2 in.	1 yen 50 sen
Hibachi	9 in.	9 in.	6 in.	5 yen
Kettle, iron	7 in.	7 in.	6 in.	4 yen
Lantern, stone	18 in.	6 in.	6 in.	6 yen
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Figure of Hotei	5 in.	4 in.	4 in.	3 yen
Figure of Fukurokuju	6 in.	3 in.	3 in.	2 yen 50 sen
Figure of Ebisu	5 in.	3 in.	3 in.	2 yen
Figure of Benten	5 in.	3 in.	3 in.	2 yen
Figure of Bishamon	6 in.	3 in.	3 in.	2 yen 50 sen
Figure of Kichijoten	5 in.	3 in.	3 in.	2 yen
Figure of Juro-jin	6 in.	3 in.	3 in.	2 yen 50 sen
Figure of Daruma	8 in.	5 in.	5 in.	6 yen
Figure of Hotei, large	7 in.	4 in.	4 in.	5 yen
Figure of Ebisu, large	7 in.	4 in.	4 in.	5 yen
Figure of Benten, large	7 in.	4 in.	4 in.	5 yen
Figure of Bishamon, large	8 in.	4 in.	4 in.	6 yen
Figure of Kichijoten, large	7 in.	4 in.	4 in.	5 yen
Figure of Juro-jin, large	8 in.	4 in.	4 in.	6 yen
Figure of Daruma, large	6 in.	5 in.	5 in.	4 yen 50 sen
Figure of Hotei, extra large	10 in.	6 in.	6 in.	8 yen
Figure of Daikoku, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Ebisu, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Benten, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Bishamon, extra large	10 in.	5 in.	5 in.	8 yen
Figure of Kichijoten, extra large	9 in.	5 in.	5 in.	7 yen
Figure of Juro-jin, extra large	10 in.	5 in.	5 in.	8 yen
Figure of Daruma, extra large	8 in.	6 in.	6 in.	6 yen
Figure of Hotei, colossal	12 in.	8 in.	8 in.	12 yen
Figure of Daikoku, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Ebisu, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Benten, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Bishamon, colossal	12 in.	7 in.	7 in.	12 yen
Figure of Kichijoten, colossal	11 in.	7 in.	7 in.	10 yen
Figure of Juro-jin, colossal	12 in.	7 in.	7 in.	12 yen
Figure of Daruma, colossal	10 in.	8 in.	8 in.	8 yen
Figure of Hotei, gigantic	15 in.	10 in.	10 in.	20 yen
Figure of Daikoku, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Ebisu, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Benten, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Bishamon, gigantic	15 in.	9 in.	9 in.	20 yen
Figure of Kichijoten, gigantic	14 in.	9 in.	9 in.	18 yen
Figure of Juro-jin, gigantic	15 in.	9 in.	9 in.	20 yen
Figure of Daruma, gigantic	13 in.	10 in.	10 in.	15 yen
Figure of Hotei, monumental	18 in.	12 in.	12 in.	30 yen
Figure of Daikoku, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Ebisu, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Benten, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Bishamon, monumental	18 in.	11 in.	11 in.	30 yen
Figure of Kichijoten, monumental	17 in.	11 in.	11 in.	25 yen
Figure of Juro-jin, monumental	18 in.	11 in.	11 in.	30 yen
Figure of Daruma, monumental	15 in.	12 in.	12 in.	25 yen
Figure of Hotei, heroic	24 in.	15 in.	15 in.	40 yen
Figure of Daikoku, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Ebisu, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Benten, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Bishamon, heroic	24 in.	14 in.	14 in.	40 yen
Figure of Kichijoten, heroic	23 in.	14 in.	14 in.	35 yen
Figure of Juro-jin, heroic	24 in.	14 in.	14 in.	40 yen
Figure of Daruma, heroic	20 in.	16 in.	16 in.	30 yen
Figure of Hotei, colossal seated	30 in.	20 in.	20 in.	60 yen
Figure of Daikoku, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Ebisu, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Benten, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Bishamon, colossal seated	30 in.	18 in.	18 in.	60 yen
Figure of Kichijoten, colossal seated	28 in.	18 in.	18 in.	50 yen
Figure of Juro-jin, colossal seated	30 in.	18 in.	18 in.	60 yen
Figure of Daruma, colossal seated	25 in.	20 in.	20 in.	45 yen
Figure of Hotei, gigantic seated	36 in.	24 in.	24 in.	80 yen
Figure of Daikoku, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Ebisu, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Benten, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Bishamon, gigantic seated	36 in.	22 in.	22 in.	80 yen
Figure of Kichijoten, gigantic seated	34 in.	22 in.	22 in.	70 yen
Figure of Juro-jin, gigantic seated	36 in.	24 in.	24 in.	80

Cheques

P. W. D Cheques 834 Books up 50 copies each @ 3 Rs. (impressions 104,205 — 1502 - -
M. & D. do 10000 copies 20,000 impressions @ 1/2 annas, each impression — 312 8 -
do Transfer receipts 6000 Copies 18,000 impressions (@ 9 piece each copy — 281 4 -

Manuscript Drawings.

Names of Drawings.	Measurements of drawings in inches L	B	Area of Drawings Sq ft	Sq in	Cost of Drawing @ 3 Rs per 100 Sqr Inches		
Tracing on Cloth the Northern boundary of Madura Dist: The portion shown in Atlas No: 61/4	36	9	2	36	9	11	6
Bridge Elevation and Section across a large stone on the road from Coonoor to Lady Canning seat	15	12	1	36	5	6	5
Tracing on Cloth from Coimbatoor to Shealy to identify a place called Annagudi-Tanjore	36	36	9	-	38	14	-
Tracing on Cloth Hooz or Cutcherry proposed to pierce up for the Post Office at Madura	36	27	6	108	28	2	6
Tracing on Cloth Standard Plan of 1st Class Police Station	36	18	4	72	19	7	-
do do of proposed additions to Dotacammund Post office with Lower and Upper floor to the existing Post Office	36	27	6	108	29	2	6
Tracing on Cloth of Cashiers Treasury of Taluq Cutcherry duly Corrected	36	27	6	108	29	2	6
do do 2 sylphons Madras Drainage Scheme	42	36	10	72	15	1	11
do do Section and Elevation of Pumping station	42	36	10	72	15	1	11
do do Plan of Pumping station	45	36	11	36	48	9	7
do do Detail of Iron out fall pipe	39	36	9	8	39	1	9
do do Cross section of Drainage pipes (Mint street)	36	13	3	36	14	-	7
Survey and Borings by Executive Engineer & Varotaveiro for Secty of State	30	21	5	-	21	6	7
Tracing on Cloth Skeliton Map showing roads, river of Madras Presidency	40	36	10	-	43	3	2
do do Plan of Southern story of Govt Office occupied by Military Offices & Public Depts	36	18	4	72	25	7	-
do do second story of Govt office do do	36	27	6	107	29	2	6
Two copies Tracing on cloth The regulating sluice and breach on the 9½ Mile stone	36	18	4	72	19	7	-
Map of Ganjam District on one inch (Scale 1 to 1 mile @ Rs 20 per 100 Sq in	120	93	70	80	2032	-	-
A portion of Vizagapatam Dist: do do 7 sections do	27	18	23	5	672	6	5
Line of Railways inserted in the Royal Atlas of India						10	-
Degree of Honor illuminated on parchment mounted on Satern &c						75	-
A set of 21 Dist Road Maps Colored boundaries ranges and roads @ 3 Rs each						63	-
do do						30	-
Coloring sheet No: 62 of Indian Atlas						5	-
Title page illustrated in Gold and Colors						25	-
Inserting line of Railways in 12 copies						25	-
Ma							
do do In Atlas she						35	-
another sheets for two more						15	-
Correction made to the revised Standard						150	-
Skeliton Map of Presidency showing the						70	-
Hills, Statement of Populatio						30	-
Inserted 21 District Maps, reference in							
of District Engineer and							
Preparing a statement showing the pres							
of P. W. D, and their Corre							
Inserting roads in the Special Ordnan						25	-
Mounted on Cloth and bou							
Map large and Small							
Atlas sheets						15	-
Standard Plans						35	-
Tracing on transfer Paper						32	-
Case for Atlas Sheet						159	-
Ruling forms binding Cheq						1	8

Plans Lithographed.

		No. of copies printed	No. of impressions	Size of each drawings in inches L	B	Area of Drawings Sq. ft.	Sq. in.	Area of printed Copies Sq. ft.	Sq. in.	Value of Plans average market rate. For tracing @ average rate Rs 10 per 100 sq. ft.	As.	P.	For printing drawing on matter inclusive transfer paper & sale of paper @ average rate Rs 10 per 100 sq. ft.	As.	P.
17	Chilkalgudam R. L. lines Secunderabad														
18	Two Military Standard Plans of Winery (doors) 57 copies each	180	180	18	15	1	126	339	77	27	-	-	61	-	2
19	Twelve plates and title page of Military Standard Barrack doors 57 copies each	114	114	30	24	10	-	570	-	144	-	-	102	5	6
20	Cantonment of Tanjore	741	741	15	9	12	27	694	79	175	8	-	124	15	6
21	First Class Gymnastic apparatus 20 plates 68 copies each	165	165	18	12	1	72	247	72	21	9	7	44	8	8
22	Regimental do do 9 plates 111 copies do	1360	1360	15	12	25	-	1700	-	360	-	-	306	-	-
23	Plan of two ovens use of Hospitals Allahabad	999	999	15	12	11	36	1248	108	162	-	-	224	12	4
24	Standard Plan of Hospital furniture, meat safe	66	66	20	12	1	96	110	-	24	-	-	19	12	8
25	27 drawings of human figures to illustrate Dr. Balfours manual 380 copies each	180	180	19	13	1	103	308	108	24	9	7	55	9	-
26	4 Plates to illustrate mode of recovering patients partially drowned 380 copies each	10260	760	4	4	3	-	1140	-	43	3	3	205	3	-
27	Plan of Dry earth shed Poona Barrack	1520	1520	7	5	-	140	369	64	14	-	-	66	8	-
28	Sketch showing the prolongation Bracket (A)	60	60	15	9	-	135	56	36	13	8	-	10	2	-
29	do do 9 Pr. R. M. L. Wagon Perelo	82	82	9	7	-	63	35	118	6	4	9	6	6	11
30	5 Vaccination Plates 400 copies each of 5 impressions	82	82	9	7	-	63	56	62	6	4	9	6	8	9
		2,000	10,000	9	4	1	36	500	-	14	6	4	72	-	-
31	Revised standard design of Dist. Moonsiffs Court	197	197	24	18	3	-	591	-	43	3	3	106	6	-
32	Details of Moonsiffs Cutcherry in 2 sections	197	394	36	21	10	72	2068	72	151	3	3	372	5	-
33	Plan of Trichelore Bungalow	160	160	18	12	1	72	240	-	21	9	7	43	3	-
34	Table showing Maximum Min.m & mean Temparature 1877-78	180	180	15	12	1	36	225	10	18	-	-	40	8	2
35	Portion of Standard Plan of Taluq Cutchery	10	10	18	15	1	126	18	88	27	-	-	3	5	4
36	Standard Plan of Central Jail	110	110	24	24	4	-	440	-	57	9	7	79	3	1
37	Survey of Beypore (Colored)	25	25	36	24	6	-	150	-	86	6	4	27	-	-
38	Plan of Govt and Chepauk Compound in 3 Colors and by hand 3 Colors	60	180	27	18	3	54	607	72	48	9	7	109	10	7
39	Roxaponum Terminus Plan in 3 Colors	33	99	24	12	2	-	198	-	28	9	7	35	10	2
40	Madras Harbour in 2 colors	70	140	18	15	3	108	262	72	54	-	-	47	4	11
41	Section of Piers Madras Harbour	70	70	15	9	-	135	65	95	13	8	-	11	12	11
42	Geneological tree of Tondiman family Colored	35	35	12	9	-	108	26	36	10	12	9	4	11	4
43	do do Sandur do	35	35	18	15	1	126	38	90	27	-	-	5	11	-
44	Plan of Beypore (Colored)	25	25	25	16	2	112	69	64	40	-	-	12	8	-
45	Plan of Madras (Drainage Report)	300	300	21	12	1	108	525	-	25	3	3	94	8	-
46	4 Plans (Drainage report) 300 copies each	1200	1200	12	8	2	96	800	-	38	6	4	144	-	-
47	Plan of Madras Harbour, printed in 2 colors	100	200	18	15	3	108	375	-	54	-	-	67	8	-
48	Section of Piers, Madras Harbour	41	41	15	9	-	135	93	108	13	8	-	16	14	-
49	Specification with diagrams of a Moonsiffs Court for C. E. College	100	200	21	15	2	27	437	72	31	8	-	78	10	5
50	Plan of School House for — do	100	100	21	15	2	27	218	108	31	8	-	38	-	-
51	Examination Plan. C. E. College	150	150	21	15	2	27	321	26	31	8	-	57	12	10
52	Plan of foundation showing Cracks, 5 plates	1000	1000	15	9	4	99	937	72	67	8	-	167	8	-
53	Peons Badges 2 plates 470 copies each	940	940	12	9	1	72	635	80	21	9	7	144	6	4
54	Plan of foundation showing Cracks	300	300	15	9	-	135	280	100	13	8	-	50	8	4
55	Plan illustrative of Indian Civil Engr. 19 Plates	20188	20188	12	9	36	108	15141	20	529	3	3	2725	6	4
56	Sketch showing series of Tanks, Tripatore ranges	200	600	32	24	16	-	3200	-	230	6	4	576	-	-
57	Ancient inscription in two sections	35	70	60	48	20	-	1400	-	288	-	-	252	-	-
58	Geneological tree of the Bungumpilly family	35	35	16	12	1	48	11	36	19	3	3	2	-	4
59	Specifications with diagrams for C. E. College	150	300	21	15	2	27	656	36	31	8	-	118	2	-
60	Examination paper C. E. College	25	25	10	9	-	90	15	90	9	-	-	2	11	2
61	Plan showing the route of H. R. H. the Prince of Wales	46	46	21	12	1	108	80	72	25	3	3	14	7	6
62	Chalk plates to illustrate Dr. Bidies Work on parasitical plants 216 copies each	1728	1728	15	12	10	-	2159	84	144	-	-	388	11	4
63	Peons Badges two plates	414	828	12	6	1	-	414	-	14	6	4	74	8	2
64	Anemographical results	1012	4047	20	17	2	52	9555	60	24	-	-	1719	15	4
65	Meteorological results	1012	4047	13	8	-	104	2922	120	10	6	4	525	15	1
66	Chief Engineer Design 1st Class Range Office	110	110	20	16	2	32	244	64	22	-	-	44	-	-
67	Telescope staves	100	100	34	23	5	62	43	8	78	3	3	7	12	-

Plans Lithographed.

		No. of Copies Printed	No. of impressions.	Size of each drawings in inches — L	B	Area of Drawings Sq ft	Sq in	Area of printed Copies. Sq ft	Sq in	Value of Plans average market rate. For tracing @ average rate Rs 10 per 100 Sq ft	For printing @ average rate 2 annas per 100 Sq in
17	Chittalgudam h. f. lines Secundrabad	180	180	18	15	1	126	339	77	27 - -	61 - 2
18	Two Military Standard Plans of Joinery (doors) 57 copies each	114	114	30	24	10	-	570	-	144 - -	102 5 6
19	Twelve plates and title page of Military Standard Barrack doors 57 Copies each	741	741	15	9	12	27	694	79	175 8 -	124 15 6
20	Cantonment of Jangho	165	165	18	12	1	72	247	72	21 9 7	44 8 8
21	First Class Gymnastic apparatus 20 plates 68 copies each	1360	1360	15	12	25	-	1700	-	360 - -	306 - -
22	Regimental do do 9 plates 111 copies do	999	999	15	12	11	36	1248	108	162 - -	224 12 4
23	Plan of two ovens use of Hospitals Allahabad	66	66	20	12	1	96	110	-	24 - -	19 12 8
24	Standard Plan of Hospital furniture, meat safe	180	180	19	13	1	103	308	108	24 9 7	55 9 -
25	27 drawings of human figures to illustrate Dr. Balfours manual 380 copies each	10260	760	4	4	3	-	1140	-	43 3 3	205 3 -
26	4 Plates to illustrate mode of recovering patients partially drowned 380 copies each	1520	1520	7	5	-	140	369	64	14 - -	66 8 -
27	Plan of Dry earth shed Poona Barrack	60	60	15	9	-	135	56	36	13 8 -	10 2 -
28	Sketch showing the prolongation Bracket (A)	82	82	9	7	-	63	35	116	6 4 9	6 6 11
29	do do 9 Pr R M L Wagon Perelo	82	82	9	7	-	63	66	62	6 4 9	6 8 9
30	5 Vaccination Plates 400 Copies each of 5 impressions	2000	10000	9	4	1	36	500	-	14 6 4	72 - -
31	Revised standard design of Dist Moonsiffs Court	197	197	24	18	3	-	591	-	43 3 3	106 6 -
32	Details of Moonsiffs Cutcherry in 2 sections	197	394	36	21	10	72	2068	72	151 3 3	372 5 -
33	Plan of Trichelore Bungalow	160	160	18	12	1	72	240	-	21 9 7	43 3 -
34	Table showing Maximum Min & mean Temperature 1872-73	180	180	15	12	1	36	225	10	18 - -	40 8 2
35	Portion of Standard Plan of Taluq Cutcherry	10	10	18	15	1	126	18	88	27 - -	3 5 4
36	Standard Plan of Central Jail	110	110	24	24	4	-	440	-	57 9 7	79 3 1
37	Survey of Beypore (Colored)	25	25	36	24	6	-	150	-	86 6 4	27 - -
38	Plan of Govt and Chepauk Compound in 3 Colors and by hand 3 colors	60	180	27	18	3	54	607	72	48 9 7	109 10 4
39	Royapooram Terminus Plan in 3 colors	33	99	21	12	2	-	198	-	28 9 7	35 10 2
40	Madras Harbour in 2 colors	70	140	18	15	3	108	262	72	54 - -	47 4 11
41	Section of Piers Madras Harbour	70	70	15	9	-	135	65	95	13 8 -	11 12 11
42	Geneological tree of Tordimans family Colored	35	35	12	9	-	108	26	36	10 12 9	4 11 4
43	do do Sandur do	35	35	18	15	1	126	38	90	27 - -	5 11 -
44	Plan of Beypore (Colored)	25	25	25	16	2	112	69	64	40 - -	12 8 -
45	Plan of Madras (Drainage report)	300	300	21	12	1	108	525	-	25 3 3	94 8 -
46	4 Plans (Drainage report) 300 copies each	1200	1200	12	8	2	96	800	-	38 6 4	144 - -
47	Plan of Madras Harbour, printed in 2 colors	100	200	18	15	3	108	375	-	54 - -	67 8 -
48	Section of Piers, Madras Harbour	41	41	15	9	-	135	93	108	13 8 -	16 14 -
49	Specification with diagrams of a Moonsiffs Court for C. E. College	100	200	21	15	2	27	437	72	31 8 -	78 10 5
50	Plan of School House for — do	100	100	21	15	2	27	218	108	31 8 -	38 - -
51	Examination Plans. C.E. College	150	150	21	15	2	27	321	26	31 8 -	57 12 10
52	Plan of foundation showing Cracks, 5 pl	1000	1000	15	9	4	99	937	72	67 8 -	167 8 -
53	Peons Badges 2 plates 470 copies each	940	940	12	9	1	72	635	80	21 9 7	144 6 4
54	Plan of foundation showing cracks	300	300	15	9	-	135	280	100	13 8 -	50 8 4
55	Plan illustrative of Indian Civil Engg	20188	20188	12	9	36	108	15141	20	529 3 3	2725 6 4
56	Sketch showing series of Tanks, Tripatoo	200	600	32	24	16	-	3200	-	230 6 4	576 - -
57	Ancient inscription in two sections	35	70	60	48	20	-	1400	-	288 - -	252 - -
58	Geneological tree of the Bungumpilly family	35	35	16	12	1	48	11	36	19 3 3	2 - -
59	Specifications with diagrams for C.E. Col	150	300	21	15	2	27	656	36	31 8 -	118 2 -
60	Examination paper C.E. College	25	25	10	9	-	90	15	90	9 - -	2 11 -
61	Plan showing the route of H.R.H. The Prin	46	46	21	12	1	108	80	72	25 3 3	14 7 -
62	Chalk plates, to illustrate Dr. Bidies Work parasitical plants 216 copies each	1728	1728	15	12	10	-	2159	84	144 - -	388 11 -
		414	828	12	6	1	-	414	-	14 6 4	74 8 -
63	Peons Badges two plates	1012	4047	20	17	2	52	9555	60	34 - -	1719 15 -
64	Anemographical results	1012	4027	13	8	-	104	2922	120	10 6 4	525 15 -
65	Meterogical results	110	110	20	16	2	32	244	64	22 - -	44 - -
66	Chief Engineer Design 1st Class Range	100	100	34	23	5	62	43	8	78 3 3	7 12 -
67	Telescope staves										

Statement shewing the cost of the Government Lithographic Department and the value of the out-turn of work during the month of May 1877.

Plans Maps &c.a Lithographed.	No. of printed Copies	No. of impressions	Size of each drawing in Inches L	B	Area of Drawings Sq. ft	Sq. Ins	Area of printed Copies Sq. ft	Sq. Ins	Value of Plans average market rate For tracing & drawing on transfer paper @ 10 Rs. per 100 Sq. Ins	For printing matter inclusive paper @ 2 annas per 100 Sq. Ins	Grand Total
Plan Elevation and Sections of Bridge C. E. College	170	170	21	30	4	54	743	108	63	123 14	
Cinicona officinalis plates	350	360	12	9	"	108	262	72	60	27	
Specification of Bridge C. E. College	200	200	16	13	1	64	288	128	20	52	
Detail Estimate of Tank sluice. Design no: 8 Cir. 67	215	215	18	15	1	126	403	18	27	72 1	
Plan of Girder C. E. College	25	25	8	5	"	40	6	136	1	6	
Standard design of Furniture for Native Schools	130	130	24	18	3	"	390	"	43	30 1	
Plan of Bridge for Estimating. for C. E. College	150	150	21	20	4	54	656	36	63	118	
Design No: 8 Tank Sluice	215	215	18	15	1	126	403	18		72 1	
Sidhantum Parallel Channel	220	220	22	30	4	84	1008	48		181 8	
Civil Engineering College Certificate on parchment	30	30	14	9	"	126	26	36	2	4 11	
Circular Memo: No: 2 Component Works of Irrigation System	20	20	14	9	"	126	17	2	12	3 2	
								Total	350	628 10	978 10

Work completed on stone and Transfer paper but not yet printed

Lightening Conductors on transfer paper	"	"	24	18	3	"	"	"	43	3 2	
Cinicona Plates on stone	"	"	12	9	"	108	"	"	10	12 9	
Preparing a catalogue of Plans, Maps &c.a on stone	"	"	16	13	1	64	"	"	20	12 9	
Skeleton Map of Tinnevelly Dist. @ 15 Rs. per 100 Sq. Inches	"	"	24	18	3	"			81	12 9	
do Tanjore on stone do do	"	"	28	21	4	42	"	"	88	3 2	
do Godavery do do do	"	"	16	20	2	32	"	"	48		275 12 7

Manuscript Drawings

	No. of Copies	Measurement of Drawings in Inches		Area of Drawings		Cost of drawings @ 3 Rs per 100 Sq. Inches
Map of Neilgherry and Wynaad showing the annexation	1	55	36	13	108	19 12 1
Proposed plan of Lying in Hospital	1	228	36	57	"	123 1 10
Plate Bending machine	1	30	22	4	84	4 12 7
Drawing of Seals	3	6	6	"	108	3 3 12

Diagrams

	No. of copies	No. of impressions	Total No: of Drawings	Total No: of printed Copies	Cost of Drawing @ Rs 3 per Each	Cost of printing @ Rs 2 per Each	
Diagram inserted in G. O. No: 1514	1	195					
do " 786	8	585					
do " 946	10	160					
do " 906	1	16					
Tabular Details of Construction of R. line between Mayaveram & Tanjore	1	16					
Diagrams of specification inserted in G. O. No: 14 W.	8	585					1171
do do " 736	8	52					603
do do 1257	2	15					
do do 29 R.	1	85					
do do 1119	2	60					
do do 1257	2	65	114	1764			

Cheques.

P. W. Cheques 125 Books containing 50 Copies each / Total Number of impressions 45.750 @ Rs 3- per book 375

Miscellaneous Department.

Tracing 6 standard Plans on transfer paper @ 12 annas each: _____
do 3 District Maps do do do _____
4 Maps mounted on Cloth and bound with ribbon @ Rs 1-8-" per Map. _____
200 Copies of standard Plans in 2 sections pasted together _____
Miscellaneous work such as sticking papers making Covers &c.a _____

Store and record Keeper's work valued at amount of Salary received. _____
Sweeper's work valued _____ do _____ do _____

Total Cost of Establishment deducting the Salaries of 2nd and 4th Draughtsmen doing duty in the Technical & Irrigation Departments _____
Approximate Cost of Stationery expended during the month _____
Wear and tare of the 3 presses for the month _____

Hsbt. Balaraw
Supt. and Manager
Govt. Litho: Deptt.

Govt: Litho: Departt.
9th June 1877
Fort St: George

List of Plans Lithographed in the Calendar year 1875. Showing date of receipt and Despatch &c.

Date of receipt	Name Plans	From what Department	Date of despatch	No. of copies printed	Valuation	Remarks
1st May 75	Sig. Plans of Filter Carts &c. by Dr. Nicholson	Gazette Press	4 June 20 July 75	3450		
29 June	Plan of Cantonment of Cheyetmyo	"	19 April 2 June	1220		
2 April 5 April	Level of Cantonment of Cheyetmyo	"	2 June 75	305		
20 May	Plan of Regimental Gymnasium	P. W. Secretariat	25 April "	80		
5 April	Standard Plan of Bath or wheels for N. Troops	"	26 July "	180		
1 May	Standard Design for N. Regt. School	"	do do	160		
15 July	Standard Plan of Cantonment Rangoon	Gazette Press	15 May "	165		
2 May	Revised standard Plan of Racket Court Ball Court	P. W. Secretariat	30 August	85		
24 Augt	Military Standard Plan of Kneeding room for Battery	"	16 September	180		
3 Septr	Standard Plan of Armorers shop for N. Regiment	"	5 October	62		
16 do	Standard Plan of Wooden Stand for Hospitals N. I.	"	26 January	190		
11 Janr	Standard Plan of Armorers shop for Eur. Inf. or Cavy.	"	15 February	210		
25 do	Chilkalgudam N. I. Lines Secunderabad	Gazette Press	22 do	180		
4 Febr	Two Military Standard Plans of Sowery doors	P. W. Secretariat	1st Decr	114		
8 October	Twelve plates and title pages of Military Standard. Barrack &c.	"	do	741		
14 do	Cantonment of Tarlghoo	Gazette Press	1 May 1875	165		
14 do	First Class Gymnastic Apparatus 20 plates	P. W. Secretariat	10 August	1360		
2 April	Regimental Gymnastic Apparatus 9 do	"	10 do	999		
7 July	Plan of 2 Ovens use of Hospitals Allahbad	"	24 Decr	66		
7 do:	Standard Plan of Hospital furniture, Meat safe	"	2 March	180		
16 Decr	27 drawings of human figures to illustrate Dr Balfour Manual 380 copies each	Gazette Press	5 February	10260		
19 Febry	do: 4 Plates to illustrate mode of recovering patient from partially drowning	"	5 do:	1520		
18 Decr	Plan of Dry earth shed, Bona Barrack	"	8 do:	60		
2 do:	Sketch showing the prolongation, Bracket (1)	"	22 December	82		
4 Febry 74	Sketch showing 9 Pr R M.L. Wagon Proh	"	22 do:	82		
	5 Vaccination plates 1000 Copies each of 5 impressions	J. Mess	14 January	2000		
22 April 75	Revised standard design of District Monsiffs Court	P. W. Secretariat	14 May 1875	197		
22 do:	Details of Monsiffs Cutcherry in 2 sections	"	13 do:	197		
10 May	Plan of Tricklore Bungalow	"	22 March	160		
14 Janr	Table showing Mayr Minr & Mean Temparature	Gazette	27 January	180		
22 July	Portions of Standard Plan Taluq Cutcherry	P. W. Secretariat	27 July	10		
16 June	Standard Plan of Central Jail	"	30 July	110		
24 Septr	Survey Beypore Colored	Chief Engr	24 Septr	25		
8 Novr	Plan of Govt and Chelpauk Compound in 3 Colors & lily	P. W. Secretariat	19 Novembr	60		
3 do:	Rayapooram Tarmino Plan in 3 Colors	"	4 do:	33		
17 do:	Plan of Madras Harbour in 2 Colors	"	18 do:	70		
17 do:	Section of Piers, Madras Harbour	"	18 do:	70		
3 do	Geneological tree of Tondiman family, Colored	Press	12 do	35		
13 do:	Do Sandur family	"	20 do:	35		
24 Septr	Plan of Beypore (Colored)	Chief Engr	24 Septr	25		
8 April	Plan of Madras (Drainage report)	P. W. Secretariat	19 April	300		
3 do:	4 Plans (drainage report)	"	3. 5 and 9 April 75	1200		
10 do:	Plan of Madras Harbour in 2 Colors	Gazette Press	23 June	100		
10 do:	Section Piers (do)	"	23 do	41		
19 do:	Specification with diagrams of a Monsiffs Court &c	C. E. College	3 May 1875	100		
22 April	Plan of School House C. E. College	"	4 do:	100		
4 May	Examination Plan — do —	"	10 do:	150		
9 June 5	Plan of Foundation showing Cracks	P. W. Secretariat	9 June 10 July	1300		
9 do 10 Mond	Peon Badges	Gazette & P. W. Dept	6 July 23 Mond	1354		
16 Octr 74	Plan illustrative of Indian C. E. Plates 49.	C. E. College	21 Novr 1875	20188		
27 Augt	Sketch showing series Tanks, Tripatore Range	P. W. Secretariat	20 September	200		
2 Septr	Ancient inscription in two sections	"	16 October 75	35		
Novr	Geneological tree of the Bungumpilly family	Gazette Press	13 Novr	35		
do:	Specification of Diagrams C. E. College	C. E. College	23 do	150		
9 do:	Examination Paper do:	"	23 do:	150		
8 Decr	Plan showing the route of H. R. H. the Prince of Wales	P. W. Secretariat	11 Decr 1875	46		
5 Septr 74	8 Chalk plates to illustrate Dr Bedies work on Parasitical Plants 216 Copies each	Gazette Press	31 March 75	1728		
25 July 74	Anemographical and Meterogical results	Govt Astronomer	24 Septr	1012 1012		
6 July	Chief Engrs Design 1st Class range office	P. W. Secretariat	3 March 1875	110		
16 Novr 74	Tellescope stands	P. W. Store	20 Febry	100		
8 Febry 75	Design for a Road Tunnel and Sluice Combined	Irrigation Dept	25 Febry 1875	200		
8 do	do — for a Karinpaly Sluice Veeranum Tank	do	25 do	200		
1 June	Design of Surplus Weir	do	15 do	200		

List of Lables showing receipt and Despatch &c

Date of receipt	From What Deptt	No. of Copies	Date of despatch
17th February 1875	P. W. Secretariat	5[illegible]	8th March 1875
15 March "	——do——	200	8 May "
14 June "	——do——	200	6 October "

Lithographed Maps and Plans issued in 1875, irrespe[illegible] of those entered in the statement of Work

	Name of Maps and Plans	To whom given	Remarks.
	Copy of Cavaroor Ghaut showing present road mounted on cloth	P. Secretariat	
	Copy of Talug Cutcherry and Subsidiary Jail	Co. Architect	
1	——do—— ——do—— ——do——	do	
6	Copies of Trunk road Map Coimbatore District	P. Secretariat	
3	Copies of Road Map ——Ganjam——do——	do	
2	Copies of 17 districts Trunk road Maps	do	
2	Copies of Outline Map of Madras Presidency	do	
3	Copies of Road Map Nellore District	do	
2	Copies of Cocanada Chart, one mounted on cloth	do	
1	Copy of Map of Madras, mounted on Cloth	do	
24	Sheets Section Paper, scale of tenths.	do	
1	Copy Cantonment Kangoon	do	
2	Copies of each of 19 Districts Trunk road Maps	do	
	Copy of 19 Trunk Road Maps	Land Commr.	
	Copy of 3 Districts of Tinnevelly, Vizina, and Nellore	Irrign Deptt	
	Copy of 19 districts road Maps	P. Secretariat	
	Copy of Police Station (standard Plan)	do	
1	Copy of Madras	Jo. Secretary	
1	Copy of 10 Trunk road Maps	P. Secretariat	
1	Copy of Madras Presidency, mounted on Cloth	do	
1	——do—— ——do——	do	
1	Copy of Trunk road Map, Ganjam District	do	
1	Copy of Madras Map, mounted book form	do	
2	Copies of each 290 Standard Plans of Civil and Military Buildings, one set mounted on cloth	do	

Total Maps 147 Value Rupees —128-8-"
Total Plans 607 —"— —"— —607-"-"

Govt. Lithg. Deptt
Fort St. George.
22nd February 1876

/Signed/ R. I. Baldrey
Supte and Manager

/True Copy/

R. I. Baldrey
Supte and Manager
Govt. Litho. Deptt

Summary of number and value of Maps &c. turned out in 1875.

Plans.

Total number of Copies of Plans Lithographed.	Actual cost of each copy at expenditure, vizly - Rs.	of total	Cost per Plans Market rate.

Maps.

Total number of Copies of Maps Lithographed.	Actual cost of each copy at expenditure, vizly Rs	of total	Cost of Maps. Market rate.

Diagrams.

Total number of Copies of Diagrams Lithographed.	Actual cost of each copy at expenditure vizly Rs.	of total	Cost of Diagrams Market rate.

Cheques.

Total number of Copies of Cheques Lithographed	Actual cost of each copy at expenditure vizly - Rs	1/3 of total	Cost of Cheques Market rate.

Manuscript Drawings.

Total number of Copies of Manuscript Drawings	Actual Cost of each copy at expenditure vizly Rs	of total	Cost of Manuscript Drawings, Market rate.

Moochies Work.

Total number of Copies of Plans mounted on Cloth qrs	Actual Cost per each copy qrs at 1/12 of total expenditure Rs		Cost of moochies work, market rate

Govt. Litho: Departt
Fort St. George
22d February 1876

/Signed/ R. I. Baldrey
Suptt and Manager.

/True Copy/

R. I. Baldrey
Suptt and Manager.

Municipal Committee Shahdol

Annual Confidential Statement

Remarks

APPENDIX B.

Statement showing the proposed changes in the Establishment of the Public Works Department, Madras Presidency, under sanction accorded in letter from the Government of India. No. 681G, dated 5th May, 1881.

Present Scale.			Proposed Scale.			Increase.		Decrease.		Grounds of proposition.	Remarks.
Number.	Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.		
				ENGINEER ESTABLISHMENT.							
				Chief Engineers.							
1	Chief Engineer, 1st Class	2,500	1	Chief Engineer, 1st Class	2,500	0	0	0	0		
1	Chief Engineer, 2nd Class	2,000	1	Chief Engineer, 2nd Class	2,000	0	0	0	0		
2	Chief Engineers	4,500	2	Chief Engineers	4,500	0	0	0	0		
				Superintending Engineers.							
3	Superintending Engineers, 1st Class at 1,600	4,800	3	A Superintending Engineers, 1st Class at 1,600	4,800	0	0	0	0		A Includes the appointment of the Consulting Engineer for Guaranteed Railways, which is at present held by Colonel Shaw-Stewart, R. E., Chief Engineer, 3rd Class.
1	Superintending Engineer, 2nd Class	1,350	2	Superintending Engineers, 2nd Class at 1,350	2,700	1	1,350	0	0		The number (7) of Superintending Engineers suggested by the Government of India in letter No. 681 G., dated 5th May 1881, para 5, has been divided into the scale of 3, 2 and 2 with reference to para 66, Chap. I, Madras P. W. D. Code.
1	Superintending Engineer, 3rd Class	1,100	2	Superintending Engineers, 3rd Class at 1,100	2,200	1	1,100	0	0		
5	Superintending Engineers.	7,250	7	Superintending Engineers.	9,700	2	2,450	0	0		
				Executive Engineers.							
7	Executive Engineers, 1st Grade, at 950.	6,650	10	Executive Engineers, 1st Grade, at 950.	9,500	3	2,850	...	...		B Includes the two Deputy Consulting Engineers. and one Asst.
8	Executive Engineers, 2nd Grade, at 800.	6,400	11	Executive Engineers, 2nd Grade, at 800.	8,800	3	2,400	...	...		In Government of India, letter No. 681, G., dated 5th May, 1881, quoted above, the scale proposed for Executive Engineers, is 9, 10, 10, 3,=32; to this has been added the four additional Executive Engineers, viz.
7	Executive Engineers, 3rd Grade, at 650.	4,550	11	Executive Engineers, 3rd Grade, at 650.	7,150	4	2,600	...	...		For Madras Irrigation and Canal Company 1
4	Executive Engineers, 4th Grade, at 550.	2,200	4	Executive Engineers, 4th Grade, at 550.	2,200	...	...	...	...		,, Sungum Project 1
B 26	Executive Engineers.	19,800	B 36	Executive Engineers.	27,650	10	7,850	...	...		Omission from the scale submitted by Madras Government, to Government of India, in not putting down the proper number of Executive Engineers. For 10 per cent. required to take the place of absentees, only 1 being given instead of 3 2
											Total... 4

Present Scale.		Proposed Scale.			Increase.		Decrease.		Grounds of proposition.	Remarks.
Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.		
					ASSISTANT ENGINEERS.					
Assistant Engineers, 1st Grade, at 450. Assistant Engineers, 2nd and 3rd Grades, at 350 and 250.	9,000 5,400	26 21	Assistant Engineers, 1st Grade, at 450. Assistant Engineers, 2nd and 3rd Grades.	11,700 7,050	6 5	2,700 1,650	...	...		To the scale of 24 and 19—43, suggested by the Government of India, in letter No. 681, G., quoted above, has been added 2 and 2=4, viz., For Madras Irrigation and Canal Company... ... 2 „ Sungum Project... ... ... 2 Total... 4
Assistant Engineers.	14,400	47	Assistant Engineers.	18,750	11	4,350	...	...		The 21 Assistant Engineers of the 2nd and 3rd Grades, now proposed, have been divided into 18, 2nd Grades, and 3, 3rd Grades.
Total Engineer Establishment.	45,950	92	Total Engineer Establishment.	60,600	23	14,650	...	...		
				UPPER SUBORDINATE ESTABLISHMENT.						
				SUB-ENGINEERS.						
9 Sub-Engineers, 1st Grade at Rs.400.	2,000	9	Sub-Engineers, 1st Grade at 400	3,600	4	1,600	...	...		
9 Do 2nd Grade at Rs.300.	1,200	9	Do 2nd Grade at 300	2,700	5	1,500	...	...		
17 Do 3rd Grade at Rs.250.	2,250	17	Do 3rd Grade at 250	4,250	8	2,000	...	...		
35 Sub-Engineers.	5,450	35	Sub-Engineers	10,550	17	5,100	...	...		The total number 185 of Upper Subordinates has been divided amongst the several grades in accordance with Code proportions, vide Government of India, P.W.D. Code, Chap. I, paras 51 to 54 as amended by S. O. No. 110 of 2nd February, 1881. See also Government of India Resolution No. 1789 G., dated 15th October, 1880.
				SUPERVISORS.						
14 Supervisors, 1st Grade at 200	2,800	22	Supervisors, 1st Grade at 200	4,400	8	1,600	...	...		
22 Supervisors, 2nd Grade at Rs. 150	3,300	36	Do 2nd Grade at 150	5,400	14	2,100	...	...		
36 Supervisors	6,100	58	Supervisors	9,800	22	3,700	...	...		
				OVERSEERS.						
32 Overseers, 1st Grade at 100	3,200	28	Overseers, 1st Grade at 100	2,800	...	...	4	400		The distribution into 1st, 2nd, and 3rd Grades of the 92 Overseers has been made as follows :— 1st Grade $\frac{3}{10}$ of total No. of Overseers ... 28 2nd do $\frac{3}{10}$ do do do ... 28 3rd do $\frac{4}{10}$ do do do or remainder... 36 Total... 92
32 Do 2nd Grade at Rs.80	2,560	28	Do 2nd Grade at Rs.80	2,240	...	...	4	320		
42 Do 3rd Grade at Rs.60	2,520	36	Do 3rd Grade at Rs.60	2,160	...	...	6	360		
106 Overseers	8,280	92	Overseers	7,200	...	...	14	1,080	Net increase Rs.7720	
160 Total Upper Subordinate Establishment	19,830	185	Total Upper Subordinate Establishment	27,550	59	8,800	14	1,080		
				SURVEYORS RANKING AS UPPER SUBORDINATES.						These Surveyors have been provided for the four Project Divisions which are to be formed for the preparation of projects for Famine Relief Works, &c. Vide para 7 of Government of India letter, No. 681 G., dated 5th May, 1881. Amounts noted as pay include Travelling Allowances.
... ...	...	4	Surveyors at 200	800	4	800	..	...		
... ...	...	4	Do do 150	600	4	600	...	...		
... ...	...	4	Do do 100	400	4	400	...	...		
... ...	...	4	Do do 80	320	4	320	...	...		
... Surveyors	...	16	Surveyors	2,120	16	2,120	...	...		
160 Grand Total Upper Subordinates	19,830	201	Grand Total Upper Subordinates	29,670	55	10,920	14	1,080		
				LOWER SUBORDINATE ESTABLISHMENT.						The numbers and amounts entered in column "Present Scale" represent the Establishment of the Trichinopoly, Kurnool and Vizagapatam District at the close of last official year 1880-81. Since then the Local Fund works and establishment of the Vizagapatam District have been tranferred to Local Fund Boards. The numbers 5 and 14 shown in column "Proposed Scale" represent the actual existing Lower Subordinate Establishment in Trichinopoly and Kurnool Districts.
5 Sub-Overseers, 1st Grade at 60	300	5	Sub-Overseers, 1st Grade at 60	300						
... Sub-Overseers, 2nd Grade	...	...	Sub-Overseers, 2nd Grade	...			1	20		
15 Sub-Overseers, Third Grade at Rs.20.	300	14	Sub-Overseers, Third Grade at Rs.20.	280						
20 Total Lower Subordinate Establishment.	600	19	Total Lower Subordinate Establishment.	580			1	20		
				PETTY ESTABLISHMENT.						
				STORE-KEEPERS.						The numbers entered in the column "Present Scale" are those for which provision was made in the Provincial Budget for 1881-82. (G. O. No. 1204 W. dated 20th May 1880.) To these numbers have been added 5 additional Storekeepers for the 5 new Divisions, the grading of each being given with reference to the classification of the new Divisions.
4 Storekeepers @ 30	120	4	Storekeepers at 30	120						
6 Do. @ 25	150	7	do at 25	175	1	25				
7 Do. @ 20	140	8	do at 20	160	1	20				
3 Do. @ 15	45	6	do at 15	90	3	45				
20	455	25		545	5	90				
				MEDICAL ESTABLISHMENT.						The amounts entered in columns "Present" and "Proposed Scale" represent contributions by the Public Works Department for the pay of the Medical Establishment at Bezwada, Dowlaishvaram and Vizagapatam. Vide G. O.s No. 1346 W. 1382 W., 1935 W, dated 8th and 14th June 1880 and 12th August 1880.
1 Assistant Apothecary.	62½	1	Assistant Apothecary.	62½						
4 Hospital Assistants with Jeypore Allowance for one at Rs.25 per mensem. 1 at 60=60 1 at 40=40 2 at 25=50	175	4	Hospital Assistants with Jeypore Allowance for one at Rs.25 per mensem. 1 at 60=60 1 at 40=40 2 at 25=50	175						
Jeypore Allowance. } Rs.25.			Jeypore Allowance. } Rs.25.							
11 Lascars, Toties, Cook, &c., of the Medical Establishment. 1 at 7 = 7 3 at 6 =18 1 at 4 = 4 1 at 3½= 3½ 4 at 2½=10 1 at 2 = 2	44½	11	Lascars, Toties, Cook, &c., of the Medical Establishment. 1 at 7 = 7 3 at 6 =18 1 at 4 = 4 1 at 3½= 3½ 4 at 2½=10 1 at 2 = 2	44½	...					
1 Gumastah.	5	1	Gumastah.	5						
17	287	17		287	...					

Present Scale.			Proposed Scale.		Increase.		Decrease.		Grounds of proposition.	Remarks.
Number.	Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.		
1	Maistry.	40	1	Maistry.	40	...	...	...	...		For the Cuddapah Division, specially sanctioned by G.O. No: 1882 W. dated, 7th August 1880.
49	Lascars at 6.	2,460	495	Lascars at 6.	2,970	85	510	...	...		The number (495) entered in the column 'Proposed Scale' has been arrived at as follows:—
											6 Superintending Engineers' Offices at 4 each 24
											24 Divisions at 3 each 72
											1 Consulting Architect 2
											50 Sub-Divisions at 3 each 150
											182 Detached Officers, viz. 6 Asst. Engineers, 84 Sub-Engineers and Supervisors, and 92 Overseers, at 1 each ... 182
											Buckingham Canal Division—Vide G. O., No. 1081, dated 25th April 1881 5
											P. W. Stores 12
											Examiner's Office 3
											Total. 450
											Add 10 per cent for Contingencies 45
											Total. 495
448	Total Petty Establishment.	3,242	538	Total Petty Establishment.	3,842	90	600	...	...		

OFFICE ESTABLISHMENT.

For Chief Engineer and Secretary to Government, P. W. Department.

1	Chief Assistant.	600	1	Chief Assistant.	600					
1	Second Assistant.t	300	1	Second Assistant.	300					
1	Clerk I Class 3rd Grade.	225	1	Clerk I Class 3rd Grade.	225					
2	Clerks II Class, 2nd Grade at 140.	280	2	Clerk II Class, 2nd Grade at 140.	280					
1	Clerk II Class, 3rd Grade.	110	1	Clerk II Class, 3rd Grade.	110					
5	Clerks III Class 2nd Grade at 70.	350	5	Clerks III Class 2nd Grade at 70.	350					
3	Clerks III Class 3rd Grade at 55.	165	3	Clerks III Class, 3rd Grade at 55.	165					
1	Clerk IV Class, 1st Grade.	45	1	Clerk IV Class 1st Grade.	45					
2	Clerk IV Class, 2nd Grade at 35.	70	2	Clerks IV Class, 2nd Grade at 35.	70					
1	Clerk IV Class, 3rd Grade.	25	1	Clerk IV Class, 3rd Grade.	25					
18		2,170	18		2,170					
2	Draughtsmen, 1st Class at 60.	120	2	Draughtsmen, 1st Class at 60.	120					
1	Draughtsmen, 2nd Class	42½	1	Draughtsmen 2nd Class	42½					
3		162½	3		162½	...	...	...	...	
2	Muchis at 13 and 14...	27	2	Muchis at 13 and 14...	27					
2	Head Messengers at 9 and 12.	21	2	Head Messengers at 9 and 12.	21					
7	Messengers 3 at 7 and 4 at 8.	53	7	Messengers 3 at 7 and 4 at 8.	53					
11		101	11		101	...	...	...	...	
32	Total P. W. Secretariat Office Establishment.	2433½	32	Total Public Works Secretariat Office Establishment.	2433½	...	...	...	...	

Lithographic Establishment.

1	Superintendent ...	250	1	Superintendent ...	250					
1	Head Draughtsman ...	120	1	Head Draughtsman ...	120					
1	Second do ...	100	1	Second do ...	100					
1	Third do ...	80	1	Third do ...	80					
1	Fourth do ...	60	1	Fourth do ...	60					
1	5th do ...	40	1	5th do ...	40					
1	6th do ...	30	1	6th do ...	30					
1	7th do ...	25	1	7th do ...	25					
1	8th do ...	20	1	8th do ...	20					
1	9th do ...	15	1	9th do ...	15					
1	10th do ...	10	1	10th do ...	10					
1	Tracer & Recordkeeper	25	1	Tracer & Recordkeeper	25					
1	Tracer and Muchi ...	16	1	Tracer and Muchi ...	16					
1	Head Printer ...	20	1	Head Printer ...	20					
1	2nd do ...	12	1	2nd do ...	12					
1	3rd do ...	12	1	3rd do ...	12					
2	Pressmen at 9 ...	18	2	Pressmen at 9 ...	18					
6	do at 8 ...	48	6	do at 8 ...	48					
2	do at 7 ...	14	2	do at 7 ...	14					
2	do at 5 ...	10	2	do at 5 ...	10					
28	Total Lithographic Establishment.	925	28	Total Lithographic Establishment.	925	...	...	...	...	

Present Scale.			Proposed Scale.			Increase.		Decrease.		Grounds of proposition.	Remarks.
Number.	Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.		
				For Chief Engineer and Joint Secretary to Government, (Irrigation Branch.)							
1	Clerk I Class, 3rd Grade.	225	1	Clerk I Class, 3rd Grade.	225						
1	Do. II do. 2nd do...	140	1	Do. II do. 2nd do...	140						
1	Do. II do. 3rd do...	110	1	Do. II do. 3rd do...	110						
1	Do. III do. 1st do...	90	1	Do. III do. 1st do...	90						
1	Do. III do. 2nd do...	70	1	Do. III do. 2nd do...	70						
1	Do. III do. 3rd do...	55	1	Do. III do. 3rd do...	55						
2	Do. IV do. 1st Grade at 45	90	2	Do. IV do. 1st Grade at 45	90						
3	Do. IV do. 2nd Grade at 35	105	3	Do. IV do. 2nd Grade at 35	105						
1	Do. IV do. 3rd do...	25	1	Do. IV do. 3rd do...	25						
12		910	12		910						
1	Draughtsman 1st Class	60	1	Draughtsman 1st Class.	60						
2	Do. 2nd do. at 42-8-0	85	2	Do. 2nd do at 42-8-0	85						
3		145	3		145						
2	Draughtsmen 3rd Class at 25	50	2	Draughtsmen 3rd Class at 25	50						
5		195	5		195						
1	Reference Picker ...	10	1	Reference Picker ...	10						
1	Mushi ...	10	1	Mushi ...	10						
1	Head Messenger ...	8	1	Head Messenger ...	8						
2	Messengers at 7 ...	14	2	Messenger at 7 ...	14						
2	Do. at 6 ...	12	2	Do. at 6 ...	12						
3	Lascars at 7 ...	21	3	Lascars at 7 ...	21						
10		75	10		75						
27	Total Office Establishment for Chief Engineer for Irrigation.	1180	27	Total Office Establishment for Chief Engineer for Irrigation.	1180						
				For Superintending Engineers.							
1	Clerk II Class 3rd Grade	110	1	Clerk II Class 3rd Grade	110						The one additional Clerk IV Class, 3rd Grade, provided for in current year's (1881-82) Budget for each Superintending Engineer's Office has been added in the column "Proposed Scale," and allowed for the three additional Superintending Engineers' Offices also.
1	Do III do 2nd do...	70	1	Do III do 2nd do...	70						
1	Do IV do 1st do...	45	1	Do IV do 1st do...	45						
1	Do IV do 2nd do...	35	1	Do IV do 2nd do...	35	1	25				
1	Do IV do 3rd do...	25	2	Do IV do 3rd do ...	50						
1	Draughtsman 1st Class	60	1	Draughtsman 1st Class.	60						
1	Do 2nd do ...	42½	1	Do 2nd do ...	42½						
1	Messenger at 8 ...	8	1	Messenger at 8 ...	8						
3	Do at 6 ...	18	3	Do at 6 ...	18						
		413½	12		438½	1	25				
11		827	24	Add similar establishment for two more Superintending Engineers	877	2	50				
22	Add similar establishment for two more Superintending Engineers		36	Add similar establishment for 3 additional Superintending Engineers' Offices	1,315½	36	1,315½				
33	Total Office Establishment of Superintending Engineers	1,240½	72	Total Office Establishment of Superintending Engineers	2,631	39	1,390½				
				For Presidency Division.							
1	Clerk III Class 2nd Grade	70	1	Clerk III Class, 2nd Grade	70	...	...				The numbers and amounts shown in column "Present Scale" represent the scale for a 1st Class Division as laid down in Appendix C, No.5, to G.O. No.3674, W, dated 18th September 1878. To these have been added the additional establishment provided in the Provincial Budget, for the current year 1881-82, and the totals thus obtained have been shown in the column "Proposed Scale."
1	Clerk IV Class 1st Grade	45	1	Clerk IV Class 1st Grade	45	...	...				
1	Do IV do 2nd do...	35	2	Do IV do 2nd Grade at 35	70	1	35				
1	Do IV do 3rd do...	25	3	Do IV do 3rd Grade at 25	75	2	50				
	Do V do 1st do...	...	2	Do V do 1st Grade at 17½	35	2	35				
1	Draughtsman 1st Class.	60	1	Draughtsman 1st Class.	60	...	...				
	Do 2nd do ...	...	1	Do 2nd do ...	42½	1	42½				
1	Do 3rd do ...	25	3	Do 3rd Class at 25	75	2	50				
1	Messenger at 7 ...	7	1	Messenger at 7 ...	7	...	...				
1	Do at 6 ...	6	1	Do at 6 ...	6	...	...				
8	Total Office Establishment ~~Superintendent of Works~~, Presidency.	273	16	Total Office Establishment ~~Superintendent for Works~~, Presidency.	485½	8	212½				

	Present Scale.		Proposed Scale.		Increase.		Decrease.		Grounds of proposition.	Remarks.
	Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.	
	For Godavari Eastern and Kistna Eastern Divisions.									
1	Clerk, III Class, 2nd Grade	70	1	Clerk, III Class, 2nd Grade	70	...	...	...	...	The above remark applies equally to this Establishment.
1	Do IV do. 1st do.	45	1	Do. IV do. 1st do.	45	...	...	...	...	
1	Do. IV do. 2nd do.	35	1	Do. IV do. 2nd do.	35	...	...	...	...	
1	Do. IV do. 3rd do.	25	3	Do IV do 3rd do at 25	75	2	50	...	...	
1	Draughtsman, 1st Class	60	1	Draughtsman, 1st Class	60	...	...	...	...	
1	Do. 3rd do.	25	1	Do. 3rd do.	25	...	...	...	...	
1	Messenger, at 7	7	1	Messenger at 7	7	...	...	...	...	
1	Do. at 6	6	1	Do. at 6.	6	...	...	...	...	
8		273	10		323	2	50	...	...	
8	Add similar Establishment for one more office.	273	10		323	2	50	...	...	
16	Total Office Establishment Godavari Eastern and Kistna Eastern Divisions.	546	20		646	4	100	...	...	
	For 7 *1st Class Divisions.									
1	Clerk, III Class, 2nd Grade.	70	1	Clerk, III Class, 2nd Grade.	70	...	...	...	...	The foregoing remark applies equally to this Establishment. To the existing number (6) excluding Godavari Eastern and Kistna Eastern, of 1st Class Executive Divisions, has been added the "Madras Irrigation and Canal" Division, which has also been ranked as 1st Class.
1	Do. IV do. 1st do.	45	1	Do. IV do. 1st do.	45	...	...	...	...	
1	Do. IV do. 2nd do.	35	1	Do. IV do. 2nd do.	35	...	...	...	...	
1	Do. IV do. 3rd do.	25	2	Do. IV do. 3rd do. at 25.	50	1	25	...	...	
1	Draughtsman, 1st Class	60	1	Draughtsman, 1st Class	60	...	...	...	...	
1	Do. 3rd do.	25	1	Do. 3rd Class.	25	...	...	...	...	
1	Messenger at 7.	7	1	Messenger at 7.	7	...	...	...	...	
1	Do. at 6.	6	1	Do. at 6.	6	...	...	...	...	
8		273	9		298	1	25	...	...	
40	Add similar Establishment for five more 1st Class Divisions.	1365	45	Add similar Establishment for five more 1st Class Divisions.	1490	5	125	...	...	* 1. Godavari Western. 2. Kistna Western. 3. Madras Irrigation and Canal. 4. South Arcot. 5. Buckingham Canal. 6. Tanjore. 7. Tinnevelly.
			9	Add similar Establishment for one additional office (Madras Irrigation & Canal.)	298	9	298	...	...	
48	Total Office Establishment 6, 1st Class Divisions	1638	63	Total Office Establishment for 7, 1st Class Divisions.	2086	15	448			
	For 9, 2nd Class Divisions.*									The Establishment for 2nd Class Executive Divisions remains in accordance with the scale laid down in Appendix C. No. 6, to G. O. No. 3674 W. dated 18th September 1878, no additional Establishment having been provided in current year's Budget. To the existing number (8) of 2nd Class Divisions, has been added the "Sungum Project Division," which has also been ranked as 2nd Class. *1. Nellore, 2. Cuddapah, 3. West Coast, 4. Coimbatore, 5. North Arcot, 6. Chingleput, 7. Trichinopoly, 8. Negapatam, 9. Sungum Project Division.
1	Clerk, III Class, 2nd Grade.	70	1	Clerk, III Class, 2nd Grade.	70					
1	Clerk, IV Class, 2nd Grade.	35	1	Clerk IV Class, 2nd Grade.	35					
2	Clerks, IV Class, 3rd Grade at 25.	50	2	Clerks, IV Class, 3rd Grade at 25.	50					
1	Draughtsman 1st Class	60	1	Draughtsman, 1st Class	60					
1	Do 3rd Class.	25	1	Do. 3rd Class	25					
1	Messenger at 7 ...	7	1	Messenger at 7 ...	7					
1	Do at 6 ...	6	1	Do at 6 ...	6					
8		253	8		253					
56	Add similar Establishment for 7 more 2nd Class Divisions.	1,771	56	Add similar Establishment for 7 more 2nd Class Divisions.	1,771					
			8	Add similar Establishment for one 2nd Class additional division (Sungum Project Division.)	253	8	253			
64	Total Office Establishment for 8 2nd Class Divisions.	2,024	72	Total Office Establishment for 9 2nd Class Divisions.	2,277	8	253	...	...	
	For 5, 3rd Class Divisions.*									The Establishment for the 3rd Class Divisions also remains in accordance with the scale laid down in Appendix C, No. 7 to G. O. No. 3674 W., dated 18th September 1878. To the existing number (2) of 3rd Class Divisions have been added the following three new Divisions, which have been ranked as 3rd Class :— Ganjam Bellary Madura *1. Ganjam. 2. Vizagapatam. 3. Bellary. 4. Salem. 5. Madura.
1	Clerk, III Class, 3rd Grade.	55	1	Clerk, III Class, 3rd Grade.	55					
1	Clerk, IV Class, 2nd Grade.	35	1	Clerk, IV Class, 2nd Grade.	35					
2	Clerk IV Class, 3rd Grade at 25.	50	2	Clerks, IV Class 3rd Grade at 25.	50					
1	Draughtsman 2nd Class	42½	1	Draughtsma 2nd Class	42½					
1	Do 3rd Class.	25	1	Do 3rd Class.	25					
1	Messenger at 7.	7	1	Messenger at 7	7					
1	Do 6.	6	1	Do 6	6					
8		220½	8		220½					
8	Add similar Establishment for one more 3rd Class Office.	220½	8	Add similar Establishment for one more 3rd Class Office.	220½					
			24	Add similar Establishment for 3 additional 3rd Class Division Officers	661½	24	661½			
16	Total Office Establishment for 2, 3rd Class Divisions.	441	40	Total Office, Establishment for 5, 3rd Class Divisions.	1,102½	24	661½	...	...	

Present Scale.			Proposed Scale.			Increase.		Decrease.		Grounds of proposition.	Remarks.
Number.	Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.		
				For the Consulting Architect.							
1	Clerk, IV. Class, First Grade.	45	1	Clerk, IV. Class, First Grade.	45						
1	Draughtsman & Estimator	145	1	Draughtsman & Estimator	145						
1	Draughtsman 2nd Class	42½	1	Draughtsman 2nd Class	42½						
1	Do. 3rd do.	25	1	Do 3rd do.	25						
1	Messenger at 7.	7	1	Messenger at 7.	7						
1	Do. at 6.	6	1	Do. at 6.	6						
6	Total Office Establishment of Consulting Architect.	270½	6	Total Office Establishment of Consulting Architect.	270½						
				For Public Works Stores.							
1	Clerk, II Class, Second Grade.	140	1	Clerk, II Class, Second Grade	140						
1	Do. III do.	70	1	Do. III do.	70						
1	Do. IV do.	35	1	Do. IV do.	35						
1	Do. IV 3rd do.	25	1	Do. IV 3rd do.	25						
1	Messenger	8	1	Messenger.	8						
2	Do. at 7	14	2	Do at 7	14						
2	Do. at 6½	13	2	Do at 6½	13						
9	Total Office Establishment, P. W. Stores.	305	9	Total Office Establishment, P. W. Stores.	305						
				Office Establishment for 2 Superintendents of Works (Godavari and Kistna.)							
1	Clerk, III Class, 2nd Grade.	70								The offices close under the new arrangements and therefore no provision for it has been made.	
1	Clerk, IV Class, 1st Grade.	45									
1	Clerk, IV Class, 2nd Grade.	35									
1	Clerk, IV Class, 3rd Grade.	25									
1	Draughtsman, 1st Class	60									
1	Draughtsman, 3rd Class	25									
1	Messenger at 7	7									
1	Messenger at 6.	6									
8		273									
8	Add similar Establishment for one more Superintendent of Works office.	273									
		546						10	549		
				For the four New Project Divisions.							
Nil.			2	Draughtsmen, 1st Class at 60.	120	2	120				
			2	Draughtsmen, 2nd Class at 42½.	85	2	85				
			1	Clerk, IV Class, 2nd Grade.	35	1	35				
			1	Clerk, V Class, 1st Grade.	17½	1	17½				
			1	Messenger at 7.	7	1	7				
			1	Messenger at 6.	6	1	6				
			8	Total for each office.	270½	8	270½				
			24	Add similar Establishments for 3 more such offices.	811½	24	811½				
			32	Total Office Establishment, Project Divisions.	1,082	32	1,082				
				For 50 Sub-Divisional Offices.							
1	Clerk, IV Class, 3rd Grade	25	1	Clerk, IV Class, 3rd Grade	25					To the existing number (40) of Sub-Divisions have been added the 10 additional Sub-Divisions as follows :— For Sungum Project... ... ... 2 „ Madras Irrigation and Canal ... ... 2 „ Ganjam ... ... 2 „ Bellary ... ... 3 „ Madura ... ... 2 Total...10 And Office Establishment provided for each in accordance with the scale given in Appendix C. No. 10 to G. O. No. 3674 W. dated 18th September 1878.	
1	Messenger	6	1	Messenger	6						
2	Total for one Office	31	2	Total for one Office	31						
78	Add similar Establishment for 39 more Sub-Division Offices	1,209	78	Add similar Establishment for 39 more Sub-Division Offices	1,209						
			20	Add similar Establishment for 10 additional Offices	310	20	310				
80	Total Sub-Divisional Office Establishment	1,240	100	Total Sub-Divisional Office Establishment	1,550	20	310				
				For 88 Detached Officers,							
1	Clerk Apprentice, 1st Grade, now called 5th Class, 1st Grade	17½	1	Clerk, IV Class, 3rd Grade	25		7½				
39	Add similar Establishment for 39 more detached Officers (Upper Subordinates above the grade of Overseer)	682½	39	Add similar Establishment for 39 more detached Officers	975		292½				

Present Scale.			Proposed Scale.			Increase.		Decrease.		Grounds of proposition.	Remarks.
Number	Designation.	Amount of Pay.	Number	Designation.	Amount of Pay.	Number	Amount of Pay.	Number	Amount of Pay.		
				For 88 Detached Officers—(*Continued.*)							
			88	All similar Establishment for 48 additional detached Officers, viz: Officers and Upper Subordinates above the rank of Overseer who are not in charge of Sub-Divisions	1,200	48	1,200				
40	Total Office Establishment, detached Officers	700	88	Total Office Establishment, detached Officers	2,200	48	1,500				
				For 92 Overseers.							
			1	Clerk, IV Class, 1st Grade.	17½	1	17½				A provision of one Clerk, V Class, 1st Grade, has been made for each Overseer.
			91	All similar Establishment for 91 more Overseers.	1592½	91	1592½				
			92	Total Office Establishment for Overseers	1610	92	1610				
				Office [Toll] Establishment, Buckingham Canal.							
72	Clerks, &c.	761	72	Clerks, &c.	761						
				Abstract of Office Establishment.							
32	Chief Engineer and Secretary to Govt., P. W. Department.	2,433½	32	Chief Engineer and Secretary to Govt., P. W. Department.	2,433½						
28	Lithographic Establishment.	925	28	Lithographic Establishment.	925						
27	Chief Engineer for Irrigation.	1,180	27	Chief Engineer for Irrigation.	1,180						
33	Superintending Engineer's Offices.	1,240½	72	Superintending Engineer's Offices.	2,631	39	1,390½				
8	Superintendents of Works, Presidency Division.	272	18	Presidency Division.	480½	8	213½				
16	Godavari and Kistna Eastern Division.	646	20	Godavari and Kistna Eastern Division.	646	4	100				

48	Six 1st Class Executive Divisions	1,638	63	Seven 1st Class Executive Divisions	2,086	15	448				
64	Eight 2nd Class Executive Divisions	2,024	72	Nine 2nd Class Executive Divisions	2,277	8	253				
16	Two 3rd Class Executive Divisions	441	40	Five 3rd Class Executive Divisions	1,102½	24	661½				
6	Consulting Architect's Office	270½	6	Consulting Architect's Office	270½	...	...				
9	Public Works Stores	305	9	Public Works Stores	305	...	...				
16	Office Establishment, Superintendent of Works, Godavari and Kistna	546	...	...	...	...	...	16	546		
...	...	...	32	Office Establishment, Project Divisions	1,082	32	1,082				
80	Sub-Divisional Offices	1,240	100	Sub-Divisional Offices	1,550	20	310				
40	Office Establishment, Detached Officers	700	88	Office Establishment Detached Officers	2,200	48	1,500				
...	...	...	92	Office Establishment, for Overseers	1,610	92	1,610				
72	Office (Toll) Establishment Buckingham Canal	761	72	Office (Toll) Establishment Buckingham Canal	761	...	...				
495	Total Office Establishment	14,523½	769	Total Office Establishment	21,545	290	7,567½	16	546		
				Irrigation Establishments.							
	Water Regulation	7,528		Water Regulation	7,528						
	Navigation	2,462		Navigation	2,462						
	River Conservancy	260		River Conservancy	260						
	Total Irrigation Establishment	10,250		Total Irrigation Establishment	10,250						
				Abstract of Executive Branch.							
69	Engineer Establishment	45,950	92	Engineer Establishment	60,600	23	14,650				
160	Upper Subordinate ...	19,830	201	Upper Subordinate ...	29,670	55	10,920	14	1,080		
20	Lower do ...	600	19	Lower do ...	580			1	20		
448	Petty Establishment...	3,242	538	Petty Establishment...	3,842	90	600				
495	Office do ...	14,523½	769	Office do ...	21,545	290	7,567½	16	546		
	Irrigation do ...	10,250		Irrigation do ...	10,250						
	Total Executive Branch	94,395½		Total Executive Branch	126,487		33,737½		1,646		

Present Scale.			Proposed Scale.			Increase.		Decrease.		Grounds of proposition	Remarks.
Number.	Designation.	Amount of Pay.	Number.	Designation.	Amount of Pay.	Number.	Amount of Pay.	Number.	Amount of Pay.		
				ACCOUNTS BRANCH.							
				Examiners.							
1	Examiner 3rd Class ...	1,100	1	Examiner 3rd Class ...	1,100						The number of officers at present attached to this Presidency has been taken as the "Present Scale," to which has been added, one to Deputy Examiner, 1st Grade, and the totals thus arrived at have been shown as the "Proposed Scale." The provision of the extra Deputy Examiner has been made in view to the more frequent inspection of the Executive Engineer's Officers, considered to be absolutely essential with the introduction of the new forms of account, and also in view to the proposed large increase to the operations of the Department.
1	Deputy Examiner 1st Grade.	550	2	Deputy Examiners 1st Grade at 550	1,100	1	550				
1	Assistant Examiner 2nd Grade.	250	1	Assistant Examiner 2nd Grade.	250						
3	Total Examiner Establishment.	1,900	4	Total Examiner Establishment.	2,450	1	550				
				Accountants.							
1	Accountant 1st Grade	400	1	Accountant 1st Grade	400						The numbers entered in column "Proposed Scale" have been arrived at thus :—
3	Accountants 2nd Grade at 295	885	3	Accountants 2nd Grade at 295	885						For 25 Executive Divisions ... 25 Accountants
4	Accountants 3rd Grade at 200	800	6	Accountants 3rd Grade at 200	1,200	2	400				For Central Office, one Accountant for every 3 Divisions, and one for any fraction $\frac{3}{4}$ or 9 Do
10	Accountants 4th Grade at 115	1,150	15	Accountants 4th Grade at 115	1,725	5	575				Extra ... . 1 Do
34	Accountants 5th Grade at 57½	1,955	31	Accountants 5th Grade at 57½	1,782½			3	172½		Total ...35
52	Total Accountant Establishment	5,190	56	Total Accountant Establishment	5,992½	7	975	3	172½	Net Increase Rs.802½	and this total has been distributed with reference to P.W.D. Code, Chap. I, Para 77. as follows :— 1st and 2nd Grades $\frac{3}{4}$ 4 (omitting fraction less than half) 2nd Grade to be always more than 1st Grade, *i.e.*, 1st Grade = 1 at 400 = 400 2nd Grade = 3 at 295 = 885 3rd Grade $\frac{3}{4}$ = 9 at 200 = 1800 4th Grade (remainder) = 22 at 115 = 2,530 (adding 1 for fraction more than half) Total...35 Costing Rs.5,615
											Recasting the above to bring in the 5th Grade Accountants the Establishment will be— 1st Grade 1 at 400 = 400 2nd Do 3 at 295 = 885 3rd Do 6 at 200 = 1200 4th Do 13 at 115 = 1,495 5th Do 28 at 57½ = 1,607½ 53 Costing = 5,992½
											Add one Accountant each for Presidency and Dowlaishwaram Workshops, one for Madras Harbour Works and one for Central Office = ¼ *i.e.* 2, 4th Grades at 115 = 230 2, 5th do at 57½ = 115 Total...56 Costing 5,992½
				Office Establishment.							
1	Clerk II Class 2nd Grade	140	1	Clerk II Class 2nd Grade	140						To the present number of Clerks have been added four Clerks (2, III Class, 2nd Grade at 70 each, and 2, III Class 3rd Grade at 55 each) on account of the four Project Divisions for which no Accountants have been provided. A small addition of two Clerks (1, IV Class, 1st Grade at 45, and 1, IV Class, 3rd Grade at 25) has also been made to the existing establishment on account of the increase in number from 20 to 25 of Executive Divisions, which necessarily will entail an increase in the clerical work of the Central Office.
1	Do III do 1st do...	90	1	Do III do 1st do...	90						
1	Do III do 2nd Grade at 70	70	3	Do III do 2nd Grade at 70 at 55/-	210	2	140				
3	Clerk III do 3rd do...	165	5	Clerk III do 3rd do...	275	2	110				
5	Do IV do 1st Grade at 45	225	6	Do IV do 1st Grade at 45	270	1	45				
6	Clerk IV do 2nd Grade at 35	210	6	Clerk IV do 2nd Grade at 35	210						
10	Clerk IV do 3rd Grade at 25	250	11	Clerk IV do 3rd Grade at 25	275	1	25				
3	Clerk V do 1st Grade at 17½	52½	3	Clerk V do 1st Grade at 17½	52½						
30	Total Clerks ...	1202½	36	Total Clerks ...	1,522½	6	320				
	Menial Servants ...	102½	1	Moochi at 10 ...	10						
			1	Do at 8 ...	8						
			1	Head Messenger ...	10						
			1	Head Messenger	8						
			4	Messengers at 7	28						
			6	Do. at 6	36						
			2	Rollers at 5	10						
			16		110	0	7½				
	Total Office Establishment.	1,305	52	Total Office Establishment.	1,632½		327½				
				Abstract of Accounts Branch.							
3	Examiners	1,900	4	Examiners	2,450	1	550		...		
52	Accountants	5,190	56	Accountants	5,992½	7	975	3	172½		
	Office Establishment	1,305	52	Office Establishment	1,632½		327½		...		
	Total Accounts Branch	8,395		Total Accounts Branch	10,075		1,852½		172½		

ABSTRACT.

Executive Branch	1,26,487			
Accounts Branch	10,075			
Grand Total...	1,36,562	per mensem or per annum ...	Rs.	16,38,744
Add.—Approximate amount on account of Military pay and allowances of Military Officers, per mensem ...	Rs. 8,000			
Approximate amount on account of Military pay and allowances of Military Subordinates, per mensem...	„ 1,500	or per annum...	Rs.	1,14,000
	„ 9,500			
Sub-Divisional Allowance for 15 Upper Subordinates at 30...	„ 450	or per annum...	Rs.	5,400
Local allowances, approximate, Upper Godavari allowance per mensem...	50			
Wynaad allowance per mensem ...	200			
Potinghy Ghat or Jeypore allowance per mensem	600			
	850			
Charge allowance for Fifth Grade Accountants recommended in letter No. 241 W. dated 19th March 1881, from the Examiner P. W. Accountant to the Local Government	Rs. 400			
Do do Presidency allowance, & Presidency house rent, Executive Branch	Rs. 1,200			
Accounts Branch	„ 1,650			
	2,850		Rs.	45,600
Total Permanent Establishment salaries...			Rs.	18,98,344
Travelling allowance Executive Branch*	Rs. 16,666⅔			
Accounts Branch	„ 400			
	„ 17,066⅔			
Contingencies.— Executive Branch	„ 4,000			
Accounts Branch	„ 400			
	... „ 4,400			
Total Permanent Establishment...				20,64,344

*Per mensem to give in round numbers 2,00,000 for the year.

Temporary Establishment.

Executive Branch.

	Per mensem. Rs.	Per annum. Rs.
Irrigation Survey	1,250	15,000
Special Revenue Investigation Establishment... ...	1,000	12,000
Temporary Executive Branch — ...	2,083⅓	25,000
	4,333⅓	52,000

Accounts Branch.

Temporary Establishment for the preparation of Capital & Revenue Accounts of Irrigation works.	800	9,600
	5,133⅓	61,600
		...Rs. 81,600
Grand Total Establishment... ...		21,45,944

Grand Total Establishments .... Rs. 21,26,544

Executive Branch.

Deduct.

	Per mensem. Rs.	Per annum. Rs.	
Pay and allowances of Consulting Engineer and two Deputy Consulting Engineers for Railways chargeable to Imperial ...	4,023	48,276	
Moiety of pay and allowance of Superintendent P. W. Stores and Workshops chargeable to Workshops	335	4,020	
Pay of two Upper Subordinates chargeable to Workshops ...	400	4,800	
Accounts Branch.			
Pay and allowances of four Accountants chargeagble to P. W. workshops (Dowlaishvaram and Presidency) and Madras Harbour Works	445	5,340	
			62,436
Net Total Establishment Permanent and Temporary including Travelling allowances and contingencies			20,64,108

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So 3674 (d)

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Statement of details of Establishments in each Public Works Division as it actually stood on the 1st April 1876 divided under

Engineer
1 Upper Subordinates
Lower — do —

Petty Establishments
Office
Accounts.

S 364W
1897

434

Lt Conway-Gordon -

Exam: of P. W. cases -

Architect Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 2nd Grade Charge Allowance	100 " "	
1			100 " "
	Upper Subordinates		
	Nil		
	Lower Subordinates		
	Nil		
	Petty Establishment		
	Nil		
	Office		
1	Estimator	145 " "	
1	Clerk	50 " "	
1	Draftsman	30 " "	
1	Do	25 " "	
2	Peons at 7 each	14 " "	
1	Do	6 " "	
7			270 " "
	Accounts		
1	Accountant	50 " "	
1			50 " "
		Grand Total	420

Bangalore Division

	Particulars	Amounts	Total
	Engineers		
1	Executive Engineer 2nd Grade	900 " "	
	Acquirrunt Pay		
	Engr Proper	182 10 "	
			1082 10 "
1			
	Upper Subordinates		
1	Superviser 2nd Grade	100 " "	
	Military allowance	80 " "	
1	Overseer 1st Grade	100 " "	
	Military allowance	39 3 11	
1	Overseer 2nd Grade	80 " "	
			399 3 11
3			
	Lower Subordinates		
	— Nil —		
	Petty Establishments		
1	Superintendent	60 " "	
1	Do	40 " "	
1	Registry	45 " "	
1	Do	30 " "	
1	Do	25 " "	
1	Do	10 " "	
1	Do	10 " "	
1	Lascar	9 " "	
1	Peon	6 " "	
			235 " "
9			
	Office		
1	Clerk	50 " "	
1	Do	40 " "	
1	Draftsman	30 " "	
1	Do	40 " "	
1	Clerk	25 " "	
2	Do at 15 each	30 " "	
1	Store keeper	40 " "	
2	Peons at 6 each	12 " "	
2	Sub Divisional Lascars	14 " "	
2	Jobing Overseers Lascars at 6 each	24 " "	
			325 " "
17			
	Accounts		
1	Accountant	60 " "	60 " "
1			
	Grand Total		2101 13 11

Bapatla Division

	Particulars	Amounts	Total
	Engineers		
1	Assistant Engineer 1st Grade	450 " "	
	Military Pay	70 " "	
1			520 " "
	Upper Subordinates		
1	Overseer 1st Grade	100 " "	
	Military allowance	39 3 11	
1			139 3 11
	Lower Subordinates		
1	Sub Overseer	60 " "	
1	Do	20 " "	
1	Do	20 " "	
3			100 " "
	Petty Establishments		
1	Store-keeper	9 " "	
1			9 " "
	Office		
1	Clerk	25 " "	
1	Draftsman	30 " "	
1	Writer	15 " "	
1	Do	15 " "	
3	Divisional Lascars at 7 each	21 " "	
2	Overseers Do at 6 each	12 " "	
1	Sub Overseers Do	6 " "	
10			124 " "
	Accounts		
1	Accountant	50 " "	
1			50 " "
	Grand Total		942 3 11

Bellary Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 2nd Grade	200 " "	
	Military allowance	180 " "	
1			380 " "
	Upper Subordinates		
1	Supervisor 2nd Grade	100 " "	
	Military allowance	100 " "	
1	Overseer 1st Grade	100 " "	
	Military allowance	39 3 11	
1	Overseer 2nd Grade	80 " "	
	Military allowance	24 9 3	
1	Overseer 2nd Grade	80 " "	
4			523 13 2
	Lower Subordinates		
1	Sub Overseer	60 " "	
2	Do at 20 each	40 " "	
3			100 " "
	Petty Establishments		
1	Mapistry	40 " "	
1	Do	35 " "	
1	Do	27 " "	
2	Do at 15 each	30 " "	
5			132 " "
	Office		
1	Clerk	35 " "	
1	Do	30 " "	
1	Do	25 " "	
1	Do	20 " "	
1	Draftsman	40 " "	
1	Sub-Divisional Writer	25 " "	
3	Overseers do at 15 each	45 " "	
1	Local Guard do	15 " "	
4	Divisional Lascars at 7 each	28 " "	
2	Sub Divisional do at 7 each	14 " "	
6	Overseers do at 6 each	36 " "	
1	Local Guard do	6 " "	
23			319 " "
	Accounts		
1	Accountant	70 " "	
1			70 " "
	Grand Total		1524 13 2

Barrampur Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 2nd Grade	350	
1			350 " "
	Upper Subordinates		
1	Subervisor 2nd Grade	150 " "	
1	Overseer 2nd	60 " "	
1	Do 3rd Grade	60 " "	
3			290 " "
	Lower Subordinates		
2	Sub Overseers at 60 each	120 " "	
4	Do at 20 each	80 " "	
6			200 " "
	Petty Establishments		
1	Gunnastah	30 " "	
2	Gunnastahs at 15 each	30 " "	
1	Do	10 " "	
1	Storekeeper	5	
5			75 " "
	Office		
1	Clerk	30 " "	
1	Do	20 " "	
1	Draftsman	40 " "	
1	Clerk	25 " "	
3	Overseers Writers at 15 each	45 " "	
3	Sub Overseers do at 15 each	26 " "	
6	Overseers Lascars at 6 each	36 " "	
2	Sub Divisional do at 7 each	14 " "	
3	Sub Overseers do at 6 each	18 " "	
3	Divisional do at 7 each	21 " "	
22			294 " "
	Accounts		
1	Accountant	60 " "	
1			60 " "
	Grand Total		1269 " "

Banaripur Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 2nd Grade	350	
1			350 ..
	Upper Subordinates		
1	Supervisor 2nd Grade	150 ..	
1	Overseer 2nd	80 ..	
1	Do 3rd Grade	60 ..	
3			290 ..
	Lower Subordinates		
2	Sub Overseers at 60 each	120 ..	
4	Do at 20 each	80 ..	
6			200 ..
	Petty Establishments		
1	Gurrastah	60 ..	
2	Gurrastahs at 15 each	30 ..	
1	Do	10 ..	
1	Store-peon	5	
5			75 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
1	Clerk	25 ..	
3	Overseers Writers at 15 each	45 ..	
3	Sub Overseers do at 15 each	45 ..	
6	Overseers Lascars at 6 each	36 ..	
2	Sub Divisional do at 7 each	14 ..	
3	Sub Overseers do at 6 each	18 ..	
3	Divisional do at 7 each	21 ..	
25			294 ..
	Accounts		
1	Accountant	60 ..	
1			60
	Grand Total		1269 ..

Bellari Division

(43)

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 3rd Grade	200 ..	
	Military allowance	180 ..	
1			380 ..
	Upper Subordinates		
1	Supervisor 2nd Grade	100	
	Military allowance	100	
1	Overseer 1st Grade	100	
	Military allowance	39 3 11	
1	Overseer 2nd Grade	80	
	Military allowance	24 9 3	
1	Overseer 2nd Grade	80	
4			523 13 2
	Lower Subordinates		
1	Sub Overseer	60	
2	Do at 20 each	40	
3			100 .. ..
	Petty Establishments		
1	Majistry	40	
1	Do	35	
1	Do	20	
2	Do at 15 each	30	
5			132 .. ..
	Office		
1	Clerk	35	
1	Do	30	
1	Do	25	
1	Do	20	
1	Draftsman	40	
1	Sub Divisional Writer	25	
3	Overseers do at 15 each	45	
1	Local Guard do	15	
4	Divisional Lascars at 7 each	28	
2	Sub Divisional do at 7 each	14	
6	Overseers do at 6 each	36	
1	Local Guard do	6	
23			319 .. ..
	Accounts		
1	Accountant	70	
1			70 .. ..
	Grand Total		1524 13 2

Basseda Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 4th Grade	550 ..	
1			550 ..
	Upper Subordinates		
1	Overseer 2nd Grade	80 ..	
2	Do 3rd Grade at 60 each	120 ..	
3			200 ..
	Lower Subordinates		
2	Sub-Overseers at 20 each	40 ..	
			40 ..
	Petty Establishments		
1	Store-keeper	30 ..	
1	Assistant Do	10 ..	
1	Supervisor Tender	12 ..	
1	Gunnastah	7 ..	
			59 ..
	Office		
1	Clerk	25 ..	
1	Draftsman	40 ..	
4	Overseers Writers at 15 each	60 ..	
3	Divisional Peons at 7 each	21 ..	
8	Overseers Peons at 6 each	48 ..	
			194
	Accounts		
1	Accountant	50 ..	
1			50 ..
	Grand Total		1093 ..

Cudalur Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 1st Grade	450 ..	
1	Do 3rd Grade	350 ..	
2			800 ..
	Upper Subordinates		
1	Supervisor 2nd Grade	150 ..	
1	Overseer 3rd Grade	80 ..	
2	Do 3rd Grade at 60 each	120 ..	
4			350 ..
	Lower Subordinates		
1	Sub Overseer	50 ..	
2	Do at 40 each	80 ..	
3			130 ..
	Petty Establishments		
6	Mapistries at 12 each	72 ..	
6			72 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
1	Sub Divisional Writer	25 ..	
3	Overseers Writers at 15 each	45 ..	
3	Sub-Overseers do at 15 each	45 ..	
3	Divisional Peons at 7 each	21 ..	
2	Sub Divisional do at 7 each	14 ..	
6	Overseers Peons at 6 each	36 ..	
3	Sub-Overseers do at 6 each	18 ..	
14			294 ..
	Accounts		
1	Accountant	60 ..	
1			60 ..
	Grand Total		1706 ..

Cuttack Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 3rd Grade	250 " "	
1			250 " "
	Upper Subordinates		
1	Sub Engineer 3rd Grade	250 " "	
1	Superintendent 2nd Grade	150 " "	
1	Overseer 1st Grade	100 " "	
	Military allowance	40 7 6	
1	Overseer 1st Grade	100 " "	
4	Do 3rd Grade at 60 each	240 " "	
9			880 7 6
	Lower Subordinates		
1	Sub Overseer	60 " "	
1	Do	40 " "	
2			100 " "
	Petty Establishments		
2	Mistries at 15 each	30 " "	
2			30 " "
	Office		
1	Clerk	30 " "	
1	Do	20 " "	
1	Draftsman	40 " "	
1	Sub Divisional Clerk	25 " "	
4	Overseers Writers at 15 each	60 " "	
2	Sub Overseers do at 15 each	30 " "	
3	Divisional Lascars at 7 each	21 " "	
2	Sub Divisional do at 7 each	14 " "	
8	Overseers Lascars at 6 each	48 " "	
2	Extra do at 6 each	12 " "	
3	Sub Overseers do at 6 each	18 " "	
33			318 " "
	Accounts		
1	Accountant	60 " "	
1			60 " "
	Grand Total		1628 7 6

Calicut Division

	Particulars	Amounts	Total
	Engineer		
	Nil		
	Upper Subordinates		
1	Overseer 1st Grade	100 " "	
	Military allowance	40 7 6	
	Imperial allowance	70 3 9	
1	Overseer 2nd Grade	80 " "	
2			290 11 3
	Lower Subordinates		
1	Sub overseer	60 " "	
1	Do	20 " "	
2			80 " "
	Petty Establishments		
2	Superintendents at 90 each	180 " "	
1	Do	40 " "	
1	Do	30 " "	
1	Quartastah	40 " "	
1	Store-Keeper	15 " "	
7			305 " "
	Office		
1	Clerk	30 " "	
1	Do	20 " "	
1	Draftsman	40 " "	
2	Overseers Writers at 15 each	30 " "	
	Imperial allowance	15 " "	
3	Divisional Lascars at 7 each	21 " "	
	Imperial allowance	10 8 "	
4	Overseers Lascars 6 each	24 " "	
	Imperial allowance	12 " "	
1	Sub Overseers Lascar	6 " "	
15			208 8 "
	Accounts		
1	Accountant	60	
1			60 " "
	Grand Total		944 3 3

Colaba Division

No.	Particulars	Amounts	Total
	Engineer		
	Nil		
	Upper Subordinates		
1	Supervisor 2nd Grade	150 ..	
1	Overseer 2nd Grade	60 ..	
2			210 ..
	Lower Subordinates		
1	Sub Overseer	60 ..	
1			60 ..
	Petty Establishments		
1	Superintendent	60 ..	
1			60 ..
	Office		
1	Clerk	20 ..	
1	Do	15 ..	
3	Divisional Peons at 7 each	21 ..	
2	Overseers Do at 6 each	12 ..	
7			68 ..
	Accounts		
1	Accountant	40 ..	
1			40 ..
	Grand Total		438 ..

Carnac Division

No.	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 1st Grade	450 ..	
	Military Pay	70 ..	
1			520 ..
	Upper Subordinates		
1	Overseer 1st Grade	100 ..	
2	Do 2nd Grade at 60 each	120 ..	
3			220 ..
	Lower Subordinates		
1	Sub Overseer	45	
1			45 ..
	Petty Establishments		
	Nil		
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
3	Overseers Writers at 15 each	45 ..	
1	Gumasta	20 ..	
1	Do	12 ..	
1	Do	10 ..	
3	Divisional Peons at 7 each	21 ..	
6	Overseers do at 6 each	36 ..	
16			234 ..
	Accounts		
1	Accountant	60 ..	
1			60 ..
	Grand Total		1079 ..

Canal Division

	Particulars	Amounts	Total
	Engineers		
	— Nil —		
	Upper Subordinates		
1	Supervisors 1st Grade	120 " "	
	Military Pay	80 " "	
3	Overseers 3rd Grade at 60 each	180 " "	
4			380 " "
	Lower Subordinates		
1	Sub-Overseer	45 " "	
1	Do	20 " "	
2			65 " "
	Petty Establishments		
2	Superintendents at 35 each	70 " "	
			70 " "
	Office		
1	Clerk	25 " "	
1	Draftsman	40 " "	
2	Overseers Writers at 15 each	30 " "	
3	Divisional Peons at 7 each	21 " "	
4	Overseers do at 6 each	24 " "	
1	Sub-Overseers do	6 " "	
			146 " "
	Accounts		
1	Accountant	50 " "	
			50 " "
	Grand Total		

Cheroglebat Division

	Particulars	Amounts	Total
	Engineers		
	— Nil —		
	Upper Subordinates		
1	Sub Engineer 3rd Grade	250 " "	
1	Supervisor 1st Grade	200 " "	
1	Overseer 2nd Grade	80 " "	
	Military allowance	39 6 11	
1	Overseer 2nd Grade	60 " "	
2	Do 3rd Grade at 60 each	120 " "	
6	Total Upper Subordinates		769 6 11
	Lower Subordinates		
2	Sub Overseers at 60 each	120 " "	
1	Canal Registry	55 " "	
2	Sub Overseers at 20 each	40 " "	
5	Total Lower Subordinates		215 " "
	Petty Establishments		
1	Registry	15 " "	
1	Do	10 " "	
1	Store-keeper	20 " "	
3	Total Petty Establishments		45 " "
	Office		
1	Clerk	30 " "	
1	Do	20 " "	
1	Draftsman	40 " "	
1	Sub Divisional Writer	25 " "	
4	Overseers Writers at 15 each	60 " "	
2	Sub Overseers do at 15 each	30 " "	
3	Divisional Peons at 7 each	21 " "	
2	Sub Divisional do at 7 each	14 " "	
8	Overseers do at 6 each	48 " "	
2	Sub Overseers do at 6 each	12 " "	
25	Total Office		300 " "
	Accounts		
1	Accountant	60 " "	
1	Total Accounts		60 " "
	Grand Total		1389 3 11

Chittagong Division

Particulars		Amounts	Total
Engineers			
1	Executive Engineer 4th Grade	300	
	Military Allowances	433 10	
			733 10
Upper Subordinates			
1	Overseer 2nd Grade	80	
1	Do 3rd Grade	60	
			140
Lower Subordinates			
1	Sub Overseer	60	
3	Do at 20 each	60	
			120
Petty Establishments			
1	Moistry	20	
1	Store-keeper	15	
			35
Office			
1	Clerk	30	
1	Do	20	
1	Draftsman	40	
8	Overseers Writers at 15 each	45	
3	Divisional Peons at 7 each	21	
6	Overseers do at 6 each	36	
1	Sub Overseers do	6	
			198
Apparent			
1	Apparentstaff	60	
			60
	Grand Total		1286 10

Chittagong Division

Particulars		Amounts	Total
Engineers			
1	Executive Engineer 4th Grade	300	
	Military Allowances	250	
			550
Upper Subordinates			
1	Overseer 3rd Grade	60	
			60
Lower Subordinates			
1	Sub Overseer		
2	Do at 20 each	40	
			100
Petty Establishments			
2	Gunmachies at 15 each	30	
1	Do	10	
1	Store-keeper	12	
1	Watchman	2	
			58
Office			
1	Clerk	25	
1	Draftsman	40	
1	Overseers Writer	15	
1	Sub Overseers do	15	
3	Divisional Peons at 7 each	21	
2	Overseers do at 6 each	12	
1	Sub Overseers do	6	
			134
Apparents			
1	Apparentstaff	50	
			50
	Grand Total		952

Detail amount charged to Kennedy Establishment as difference between 2nd and 3rd Class Division Establishment

Coimbatore Division

Particulars	Amounts	Total
Engineers		
1 Executive Engineer 2nd Grade	650 ..	
Regulation	70 ..	
1 Assistant Engineer 2nd Grade	350 ..	
		1070 ..
Upper Subordinates		
2 Overseers 1st Grade at 100 each	200 ..	
1 Do	100 ..	
Mileage allowance	37 8	
1 Overseer 2nd Grade	60 ..	
1 Do 3rd Grade	60 ..	
		457 8
Lower Subordinates		
1 Sub Overseer	45 ..	
1 Do	25 ..	
2 Do at 20 each	40 ..	
		110 ..
Petty Establishments		
1 Mistry	25 ..	
		25 ..
Office		
1 Clerk	20 ..	
1 Do	20 ..	
1 Draftsman	40 ..	
1 Sub Divisional Writer	22 ..	
3 Overseers do at 15 each	75 ..	
3 Divisional Tascars at 7 each	21 ..	
2 Sub Divisional do	14 ..	
10 Overseers do at 6 each	60 ..	
1 Sub Overseers do	6 ..	
		280 ..
Account		
1 Accountant	60 ..	
		60 ..
Grand Total		2002 8

Coimbatore Irrigation Division

Particulars	Amounts	Total
Engineers		
Nil		
Upper Subordinates		
1 Supervisor 2nd Grade	150 ..	
1 Overseer 1st Grade	100 ..	
2 Do 3rd Grade at 60 each	120 ..	
		370 ..
Lower Subordinates		
1 Sub Overseer	45 ..	
1 Do	25 ..	
		70 ..
Petty Establishments		
Nil		
Office		
1 Clerk	25 ..	
1 Draftsman	40 ..	
3 Overseers Writers at 15 each	45 ..	
3 Divisional Tascars at 7 each	21 ..	
6 Overseers do at 6 each	36 ..	
1 Sub Overseers do	6 ..	
		173 ..
Account		
1 Accountant	50 ..	
		50 ..
Grand Total		663 ..

Dindigul Division

Particulars	Amounts	Total
Engineers		
1 Executive Engineer 2nd Grade Massachusetts Army	900 ..	
1 Assistant Engineer Army Corps	250 ..	
1 Assistant Engineer 2nd Grade	150 ..	
		1650 ..
Upper Subordinates		
1 Overseer 2nd Grade	80 ..	
4 Do 3rd Grade at 60 each	240 ..	
		320 ..
Lower Subordinates		
1 Sub Overseer	60 ..	
2 Do at 20 each	40 ..	
		100 ..
Petty Establishments		
Nil		
Office		
1 Clerk	30 ..	
1 Do	20 ..	
1 Draftsman	40 ..	
1 Sub Divisional Writer	25 ..	
4 Overseers Writers at 15 each	60 ..	
3 Divisional Lascars at 7 each	21 ..	
2 Sub Divisional do at 7 each	14 ..	
8 Overseers do at 6 each	48 ..	
1 Sub Overseers do	6 ..	
1 Writer	40 ..	
1 Do	21 ..	
1 Head Lascar	10 ..	
3 Lascars at 7 each	07 ..	
		362 ..
Accounts		
1 Accountant	60 ..	
		60 ..
Grand Total		2512 ..

Dumraguidaroo Division

Particulars	Amounts	Total
Engineer		
1 Executive Engineer 2nd Grade	800 ..	
		800 ..
Upper Subordinates		
Nil		
Lower Subordinates		
Nil		
Petty Establishments		
1 Store-keeper	50 ..	
2 Cash Peons at 7 each	14 ..	
4 Store Peons at 7 each	28 ..	
1 Hospital Assistant	60 ..	
Special Attendance	20 ..	
		172 ..
Office		
1 Clerk	30 ..	
1 Do	20 ..	
3 Lascars at 7 each	21 ..	
		71 ..
Account		
1 Accountant	50 ..	
		50 ..
Grand Total		1093 ..

East Coast Canal Division

	Particulars	Amounts	Total
	Engineers		
1	Assistant Engineer 2nd Grade	200 " "	
	Military allowance	265 " "	
1			465 " "
	Upper Subordinates		
1	Supervisor 1st Grade	200 " "	
1			200 " "
	Lower Subordinates		
1	Operah Apothecary	55 " "	
1			55 " "
	Petty Establishments		
	— Nil —		
	Office		
1	Clerk	30 " "	
1	Draftsman	40 " "	
4	Lascars at 7 each	28 " "	
6			98 " "
	Account		
	— Nil —		
	Grand Total		918 " "

Ellua Division

	Particulars	Amounts	Total
	Engineers		
1	Assistant Engineer 1st Grade	450 " "	
1			450 " "
	Upper Subordinates		
1	Overseer 3rd Grade	60 " "	
1			60 " "
	Lower Subordinates		
2	Sub Overseers at 60 each	120 " "	
4	Do — at 20 each	80 " "	
6			200 " "
	Petty Establishments		
2	Guarastahs at 15 each	30 " "	
1	Hospital Assistant	25 " "	
3			55 " "
	Office		
1	Clerk	25 " "	
1	Draftsman	40 " "	
1	Overseer's Writer	15 " "	
2	Sub-Overseers do at 15 each	30 " "	
3	Divisional Lascars at 7 each	21 " "	
2	Overseers Lascars at 6 each	12 " "	
2	Sub-Overseers do	12 " "	
1	Superintendent	15 " "	
4	Lascars	34 " "	
17			174 " "
	Account		
1	Accountant	50 " "	
1			50 " "
	Grand Total		1009 " "

Not Office Conservancy

Godavary Eastern Delta Division

No.	Particulars	Approvals	Total
	Engineer		
1	Executive Engineer 2nd Grade	900 " "	
	Pay & Poker	140 " "	
3	Assistant Engineers 2nd Grade at 350 each	1050 " "	
4			1990 " "
	Upper Subordinates		
2	Supervisors 1st Grade) at 200 each	400 " "	
1	Overseer 1st Grade	100 " "	
1	Do 2nd Grade	80 " "	
	Military allowances	24 9 3	
1	Overseer 3rd Grade	60 " "	
5			664 9 3
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 " "	
2	Do at 20 each	40 " "	
4			160 " "
	Petty Establishments		
1	Mystry	30 " "	
1	Do	25 " "	
1	Do	20 " "	
3	Gurrastahs at 10 each	30 " "	
1	Hospital Assistant	40 " "	
1	Jasoar	7 " "	
1	Sweeper	4 " "	
11			156 " "
	Office		
1	Clerk	30 " "	
1	Do	25 " "	
1	Do	20 " "	
1	Draftsman	30 " "	
1	Do	30 " "	
3	Sub Divisional Writers at 25 each	75 " "	
3	Overseers Writers at 15 each	45 " "	
1	Extra Writer	22 " "	
2	Sub-Divisional Overseers do at 15 each	30 " "	
4	Divisional Lascars at 7 each	28 " "	
6	Sub-Divisional do at 7 each	42 " "	
6	Overseers do at 6 each	36 " "	
2	Sub Overseers do at 6 each	12 " "	
41			445 " "
	Account		
1	Accountant	70 " "	
1	Do	40 " "	
2			110 " "
	Grand Total		3525 9 3

Gedaroor Water Bolt Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 2nd Grade Sub pay	100 ..	
1	Assistant Engineer 1st Grade	450 ..	
	Allowance (Pathan cavalry)	70 ..	
1	Assistant Engineer 2nd Grade	250 ..	
	Allowance (Pathan cavalry)	70 ..	
1	Assistant Engineer 3rd Grade	150 ..	
1	Do 3rd Grade	150 ..	
			1866 ..
	Upper Subordinates		
1	Overseer 1st Grade	100 ..	
5	Do 2nd Grade at 60 each	240 ..	
			340 ..
	Lower Subordinates		
2	Sub Overseers at 60 each	120 ..	
2	Do at 20 each	40 ..	
	Petty Establishments		
1	Writer	12 ..	
1	Do	10 ..	
1	Moistry	30 ..	
3	Do at 25 each	76 ..	
1	Do	20 ..	
			157 ..
	Office		
1	Clerk	80 ..	
1	Do	25 ..	
1	Draftsman	20 ..	
1	Do	30 ..	
2	Sub Overseers Writers at 25 each	50 ..	
2	Overseers Writers at 15 each	30 ..	
2	Sub Overseers do at 15 each	60 ..	
4	Divisional Peons at 7 each	28 ..	
4	Sub Divisional do at 7 each	28 ..	
2	Overseers do at 6 each	12 ..	
2	Sub Overseers do at 6 each	12 ..	
			411 ..
	Account		
1	Accountant	70 ..	
1	Do	40	
			110 ..
	Grand Total		3032 12 ..

Gedaroor Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 1st Grade	450 ..	
			450 ..
	Upper Subordinates		
	Nil		
	Lower Subordinates		
2	Sub Overseers at 60 each	120 ..	
3	Do at 20 each	60 ..	
			180 ..
	Petty Establishments		
	Nil		
	Office		
1	Clerk	20 ..	
1	Do	15 ..	
1	Overseers Writers	15 ..	
1	Sub Overseers do	15 ..	
3	Divisional Peons at 7 each	21 ..	
2	Overseers do at 6 each	12 ..	
1	Sub Overseers do	6 ..	
			104 ..
	Account		
1	Accountant	40 ..	
			40 ..
	Grand Total		774 ..

Gooty Division

Particulars	Amounts	Total
Engineer		
1 Assistant Engineer 2nd Grade	350 " "	
1 Do	350 " "	
2		700 " "
Upper Subordinates		
2 Overseers 1st Grade at 100 each	200 " "	
1 Do 2nd Grade	80 " "	
2 Do 3rd Grade at 60 each	120 " "	
5		400 " "
Lower Subordinates		
1 Sub-Overseer	60 " "	
3 Do at 20 each	60 " "	
4		120 " "
Petty Establishments		
1 Magistry	25 " "	
1 Do	10 " "	
2		35 " "
Office		
1 Clerk	35 " "	
1 Do	25 " "	
1 Draftsman	40 " "	
1 Sub-Divisional Clerk	25 " "	
5 Overseers Writers at 15 each	75 " "	
1 Sub-Overseers do	15 " "	
3 Divisional Lascars at 7 each	21 " "	
2 Sub-Divisional do at 7 each	14 " "	
10 Overseers Lascars do at 6 each	60 " "	
1 Sub-Overseers do	6 " "	
27	Total Office	316 " "
Accounts		
1 Accountant	50 " "	
1	Total Accounts	50 " "
	Grand Total	1621 " "

Hospital Division

	Particulars	Amounts	Total
	Engineers		
	Nil		
	Upper Subordinates		
1	Superintendent 2nd Grade	150 ..	
1	Overseer 1st Grade	100 ..	
2	Do 2nd Grade at 80 each	160 ..	
2	Do 3rd Grade at 60 each	120 ..	
7			530 ..
	Lower Subordinates		
2	Sub Overseers at 60 each	120 ..	
2	Do at 20 each	40 ..	
4			160 ..
	Petty Establishments		
1	Mistry	26 ..	
1	Do	25 ..	
5	Do at 20 each	100 ..	
1	Sakaid	10 ..	
8			160 ..
	Office		
1	Clerk	65	
1	Draftsman	40	
5	Overseers Writers	75	
1	Sub-Overseer do	15	
3	Divisional tascars at 7 each	21	
10	Overseers do at 6 each	60	
2	Sub-Overseers do at 6 each	12	
23			248 ..
	Accounts		
1	Accountant	50 ..	
1			50 ..
	Grand Total		1148 ..

Jeypur Trial Division

	Particulars	Amounts	Total
	Engineers		
	Nil		
	Upper Subordinates		
	Nil		
	Lower Subordinates		
	Nil		
	Petty Establishments		
1	Overseer	100 ..	
1	Writer	15 ..	
2	Lascars at 6 each	12 ..	
1	Hospital Assistant	25 ..	
	Jeypur allowance	25 ..	
1	Hospital Servant	6 ..	
6			183 ..
	Office		
1	Draftsman	40 ..	
1	Gumasta	15 ..	
3	Divisional tascars at 7 each	21 ..	
5			76 ..
	Accounts		
1	Accountant	40 ..	
1			40 ..
	Grand Total		299 ..

Nundydroog Division

	Particulars	Appointments	Total
	Engineers		
	Nil		
	Upper Subordinates		
1	Supervisor 1st Grade	200 " "	
1	Overseer 2nd Grade	80 " "	
2	Do 3rd Grade at 60 each	120 " "	
			400 " "
	Lower Subordinates		
1	Sub Overseer	60 " "	
2	Do at 20 each	40 " "	
			100 " "
	Petty Establishments		
1	Mistry	25 " "	
			25 " "
	Office		
1	Draftsman	50 " "	
1	Clerk	40 " "	
2	Overseers Writers at 15 each	30 " "	
1	Sub Overseers do	15 " "	
3	Divisional Peons at 7 each	21 " "	
4	Overseers do at 6 each	24 " "	
1	Sub Overseers do	6 " "	
			186 " "
	Accounts		
1	Accountant	60 " "	
			60 " "
	Grand Total		771 " "

Karnul Division

	Particulars	Appointments	Total
	Engineers		
1	Assistant Engineer 2nd Grade	350 " "	
			350 " "
	Upper Subordinates		
1	Overseer 1st Grade	100 " "	
1	Do 2nd Grade	80 " "	
1	Do 3rd Grade	60 " "	
			240 " "
	Lower Subordinates		
2	Sub Overseers at 20 each	40 " "	
			40 " "
	Petty Establishments		
1	Mistry	25 " "	
2	Do at 15 each	30 " "	
1	Store Writer	7 " "	
1	Hospital Assistant	25 " "	
			87 " "
	Office		
1	Clerk	30 " "	
1	Do	20 " "	
1	Draftsman	40 " "	
4	Overseers Writers at 15 each	60 " "	
1	Sub Overseers do	15 " "	
3	Divisional Peons at 7 each	21 " "	
8	Overseers do at 6 each	48 " "	
1	Sub Overseers do	6 " "	
			240 " "
	Accounts		
1	Accountant	60 " "	
			60 " "
	Grand Total		1017 " "

Kavambwada Division

	Particulars	Amounts	Total
	Engineers		
1	Executive Engineer 1st Grade	550 ..	
	Mofussil allowance	275 ..	
1			825 ..
	Upper Subordinates		
1	Overseer 1st Grade	100 ..	
	Mofussil allowance	50 ..	
1	Overseer 3rd Grade	60 ..	
	Mofussil allowance	30 ..	
2			190 ..
	Lower Subordinates		
1	Sub Overseer	20 ..	
1			20 ..
	Petty Establishments		
1	Sub Overseer	45 ..	
1	Mistry	30 ..	
1	Do	15 ..	
3			90 ..
	Office		
1	Draftsmans	40 ..	
1	Clerk	25 ..	
1	Overseers Writers	15 ..	
1	Do	15 ..	
3	Divisional Lascars at 7 each	21 ..	
4	Overseers Lascars	24 ..	
			160 ..
	Accounts		
1	Accountant	50 ..	
1			50 ..
	Grand Total		1335 ..

Mudamakale Division

	Particulars	Amounts	Total
	Engineers		
1	Assistant Engineer 1st Grade	450 ..	
1			450 ..
	Upper Subordinates		
1	Supervisor 2nd Grade	150 ..	
1	Overseer 2nd Grade	80 ..	
3	Do 3rd Grade at 60 each	180 ..	
5			410 ..
	Lower Subordinates		
4	Sub Overseers 1st Grade at 60 each	240 ..	
4			240 ..
	Petty Establishments		
1	Mistry	20 ..	
1			20 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsmans	40 ..	
1	Sub Divisional Writer	25 ..	
4	Overseers Writers	60 ..	
4	Sub Overseers do	60 ..	
3	Divisional Lascars at 7 each	21 ..	
2	Sub Divisional do do	14 ..	
8	Overseers do	40 ..	
4	Sub Overseers do	24 ..	
47			342 ..
	Accounts		
1	Accountant	60 ..	
1			60 ..
	Grand Total		1522 ..

Madras Harbor

No.	Particulars	Amount	Total
	Engineers		
1	Superintendent	1050 ..	
1	Assistant Engineer	500 ..	
			1550 ..
	Upper Subordinates		
1	Overseer of Masons	100 ..	
	Presidency Allowance	20 ..	
1	Subordinate (of Quarry)	100 ..	
1	Sub Engineer	60 ..	
	Presidency allowance	60 ..	
	Do House rent	20 ..	
1	Mechanical Assistant	320 ..	
	Presidency House rent	20 ..	
			1280 ..
	Lower Subordinates		
	Nil		
	Petty Establishments		
1	Store-keeper	350 ..	
1	Writer	16 ..	
2	Lascars	12 ..	
			37 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
3	Divisional Lascars	21 ..	
1	Clerk	30 ..	
1	Draftsman	40 ..	
3	Lascars	21 ..	
2	Do	14 ..	
1	Writer	15 ..	
2	Lascars	12 ..	
			243 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		2430 ..

Madura Division

No.	Particulars	Amount	Total
	Engineers		
1	Executive Engineer 3rd Grade	650 ..	
1	Total Engineers		650 ..
	Upper Subordinates		
1	Supervisor 1st Grade	200 ..	
1	Overseer 1st Grade	100 ..	
1	Do 3rd Grade	80 ..	
	Personal allowance	20 ..	
1	Overseer 3rd Grade	80 ..	
4	Total Upper Subordinates		480 ..
	Lower Subordinates		
2	Sub-Overseers 1st Grade at 60 each	120 ..	
4	Do at 20 each	80 ..	
7	Total Lower Subordinates		200 ..
	Petty Establishments		
1	Lascar	7 ..	
1	Total Petty Establishments		7 ..
	Office		
1	Clerk	30 ..	
1	Do	25 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
1	Sub-Divisional Writer	25 ..	
3	Overseers Writers at 15 each	45 ..	
2	Sub-Overseers Do	30 ..	
4	Divisional Lascars	28 ..	
2	Sub-Divisional Do	14 ..	
6	Overseers Do	36 ..	
2	Sub-Overseers Do	12 ..	
1	Sub-Divisional Clerk-Saumbers	30 ..	
1	Storekeeper	25 ..	
1	Carpenter	15 ..	
1	Smith	15 ..	
1	Hammerman	11 ..	
1	Tindal	9 ..	
1	Bellows boy	5 ..	
4	Saumbers Sub-Divisional Lascars	28 ..	
30			443 ..
	Accounts		
1	Accountant	70 ..	
1			70 ..
	Grand Total		1850 ..

Mpanjaka Division

Particulars	Approvals	Total
Engineer		
Nil		
Upper Subordinates		
1 Sub Engineer 2nd Grade	250 ..	
3 Overseers 2nd Grade at 60 each	180 ..	
		430 ..
Lower Subordinates		
1 Sub Overseer	60 ..	
3 Do at 20 each	60 ..	
		120 ..
Petty Establishments		
2 Mestries at 15 each	30 ..	
1 Do	10 ..	
		40 ..
Office		
1 Clerk	25 ..	
1 Draftsman	40 ..	
1 Sub Divisional writer	25 ..	
2 Overseers Do	30 ..	
1 Sub Overseers Do	15 ..	
3 Divisional Peons	21 ..	
2 Sub Divisional Do	14 ..	
4 Overseers Do	24 ..	
1 Sub Overseers Do	6 ..	
		200 ..
Accounts		
1 Accountant	50 ..	
		50 ..
Grand Total		840 ..

Mpanjaka Division

Particulars	Approvals	Total
Engineer		
1 Assistant Engineer 1st Grade	450 ..	
		450 ..
Upper Subordinates		
1 Supervisor 2nd Grade	150 ..	
1 Overseer 1st Grade	100 ..	
1 Do 2nd Grade	80 ..	
3 Do 3rd Grade at 60 each	180 ..	
		510 ..
Lower Subordinates		
1 Sub Overseer	60 ..	
1 Do	45 ..	
1 Do	30 ..	
2 Do at 25 each	50 ..	
		185 ..
Petty Establishments		
Nil		
Office		
1 Clerk	30 ..	
1 Do	20 ..	
1 Draftsman	40 ..	
1 Sub Divisional Writer	25 ..	
4 Overseers Writers at 15 each	60 ..	
3 Divisional Peons at 7 each	21 ..	
2 Sub Divisional Do	14 ..	
8 Overseers Do	48 ..	
2 Sub Overseers Do	12 ..	
		270 ..
Accounts		
1 Accountant	60 ..	
		60 ..
Grand Total		1475 ..

Manufacturing Division

	Particulars	Amounts	Total
	Engineers		
1	Executive Engineer 4th Grade	550 ..	
	Dry Nurse	70 ..	
1	Assistant Engineer 2nd Grade	350 ..	
			970 ..
	Upper Subordinates		
1	Supervisor 1st Grade	200 ..	
3	1 Overseer 1st Grade	100 ..	
	Military allowance	40 76	
1	Overseer 1st Grade	100 ..	
	Do 3rd Grade	60 ..	
			500 76
	Lower Subordinates		
1	Sub Overseer	60 ..	
2	Do at 20 each	40 ..	
			100 ..
	Petty Establishments		
1	Stationery	8 8.	
1	Hospital	12 ..	
			20 8.
	Offices		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	20 ..	
1	Sub-Divisional Writer	40 ..	
3	Overseers Writers at 15 each	26 ..	
1	Sub-Overseers Do	16 ..	
3	Divisional Lascars	15 ..	
2	Sub-Divisional Do	21 ..	
6	Overseers Do	42 ..	
1	Sub-Overseers Do	6 ..	
1	Draftsman	6 ..	
1	Writer	40 ..	
4	Lascars	30 ..	
			350 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		2,000 156

Management Division

	Particulars	Amounts	Total
	Engineers		
1	Executive Engineer 4th Grade	550 ..	
			550 ..
	Upper Subordinates		
2	Supervisors 1st Grade at 200 each	400 ..	
2	Overseers 2nd Grade at 80 each	160 ..	
1	Do 3rd Grade	60 ..	
			620 ..
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 ..	
3	Do at 20 each	60 ..	
			180 ..
	Petty Establishments		
2	Magistries at 15 each	30 ..	
1	Do	10 ..	
			40 ..
	Offices		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	20 ..	
2	Sub-Divisional Writers at 25 each	40 ..	
3	Overseers Writers at 15 each	50 ..	
2	Sub-Overseers Do at 15 each	45 ..	
3	Divisional Lascars at 7 each	30 ..	
4	Sub-Divisional Do at 7 each	21 ..	
6	Overseers Lascars at 6 each	28 ..	
2	Sub-Overseers do at 6 each	36 ..	
			312 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		1800 ..

Museum Division

	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 2nd Grade	350 ..	
			350 ..
	Upper Subordinates		
2	Overseers 1st Grade at 100 each	200 ..	
			200 ..
	Lower Subordinates		
1	Sub-Overseer	60 ..	
2	Do at 20 each	40 ..	
			100 ..
	Petty Establishments		
1	Majistry	25	
1	Do	18	
1	Do	15	
1	Gunnasta	8	
			66 .. ..
	Office		
1	Clerk	25	
1	Draftsman	40	
2	Overseer's Writers at 15 each	30	
1	Sub-Overseers Do	15	
3	Divisional Lascars at 7 each	21	
4	Overseers Do at 6 each	24	
1	Sub-Overseers Do	6	
			161 .. ..
	Accounts		
1	Accountant	50	
			50 .. ..
	Grand Total		927 .. ..

Steam Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 1st Grade	350 ..	
	Sup Salary	100 ..	
1	Assistant Engineer 2nd Grade	350 ..	
			1040 .. ..
	Upper Subordinates		
1	Supervisor 2nd Grade	150 ..	
1	Overseer 2nd Grade	80 ..	
	Military allowance	39 64	
1	Overseer 3rd Grade	60 ..	
			329 64
	Lower Subordinates		
1	Sub-Overseer	60 ..	
1	Do	20 ..	
			80 .. ..
1	Majistry	25	
1	Do	18	
1	Gunnasta	14 8 ..	
1	Storekeeper	15	
			72 8 ..
	Office		
1	Clerk	36	
1	Do	30	
1	Do	25	
1	Draftsman	20	
1	Sub-Divisional Writer	40	
2	Overseers Writers at 15 each	25	
1	Sub-Overseers Do	20	
4	Divisional Lascars	45	
2	Sub-Divisional Do	22	
4	Overseers Do	16	
1	Sub-Overseers Do	24	
			6 .. ..
	Accounts		292 .. ..
1	Accountant	60	
			60 .. ..
	Grand Total		1898 .. ..

Kandial

	Particulars	Approvals	Total
	Engineer		
	Nil		
	Upper Subordinates		
1	Sub Engineer 3rd Grade	250 " "	
1	Supervisor 2nd Grade	150 " "	
1	Overseer 1st Grade	100 " "	
1	Do 2nd Grade	80 " "	
1	Do 3rd Grade	60 " "	620 " "
	Lower Subordinates		
1	Sub Overseer	60 " "	
2	Do at 20 each	40 " "	100 " "
	Petty Establishments		
2	Registries at 15 each	30 " "	
1	Peon	15 " "	
1	Do	15 " "	60 " "
	Office		
1	Clerk	25 " "	
1	Draftsman	40 " "	
1	Extra Writer	23 " "	
3	Overseers do at 15 each	45 " "	
1	Sub Overseers do	15 " "	
3	Divisional Lascars at 7 each	21 " "	
2	Extra Do at 7 each	14 " "	
6	Overseers Do at 6 each	36 " "	
1	Sub Overseers Do	6 " "	224 " "
	Accounts		
1	Accountant	50 " "	50 " "
		Grand Total	1054 " "

Northern Division

	Particulars	Approvals	Total
	Engineer		
1	Executive Engineer 2nd Grade	330 " "	
1	Asst Engineer	70 " "	400 " "
	Upper Subordinates		
1	Supervisor 2nd Grade	150 " "	
1	Overseer 2nd Grade	80 " "	230 " "
	Lower Subordinates		
1	Sub Overseer	60 " "	
2	Do at 20 each	40 " "	100 " "
	Petty Establishments		
2	Registries at 15 each	30 " "	
1	Peon	15 " "	
1	Do	15 " "	60 " "
	Office		
1	Clerk	25 " "	
1	Draftsman	40 " "	
1	Sub Divisional Writer	25 " "	
2	Taking Officers at 15 each	30 " "	
1	Sub-Overseers Writer	15 " "	
3	Divisional Lascars at 7 each	21 " "	
2	Sub-Divisional do at 7 each	14 " "	
4	Overseers Lascars at 6 each	24 " "	
1	Sub-Overseers do	6 " "	200 " "
	Accounts		
1	Accountant	50 " "	50 " "
		Grand Total	1054 " "

Sellur Central Division

	Particulars	£	Amounts £	Total £
	Engineer			
	— Nil —			
	Upper Subordinates			
1	Sub-Engineer 1st Grade	250		
	Military allowance	106	1 4	
	Population allowance	43	4 8	
1	Overseer 1st Grade	100		
	Military allowance	39	6 11	
1	Overseer 1st Grade	100		
	Military allowance	39	6 11	
1	Overseer 2nd Grade	80		
	Military allowance	40	7 6	
1	Overseer 3rd Grade	60		
				858 15 4
	Lower Subordinates			
1	Sub-Overseer	35		
1	— Do	20		
				55
	Petty Establishments			
1	Mistry	27	10	
1	Store-keeper	8		
1	Lascar	5		
				40
	Office			
1	Clerk	25		
1	Draftsman	40		
1	Sub-Divisional Writer	25		
4	Overseers Writers at 15 each	60		
1	Sub-Overseers — Do	15		
3	Divisional Lascars at 7 each	21		
2	Sub-Divisional Do at 7 each	14		
8	Overseers Lascars at 6 each	48		
1	Sub-Overseers — Do	6		
				254
	Accounts			
1	Accountant	50		
				50
	Grand Total			1257 15 4

Nellore Northern Division

	Particulars	Amounts	Total
	Engineers		
	— Nil —		
	Upper Subordinates		
1	Sub-Engineer 1st Grade	400 " "	
3	Overseers 3rd Grade at 60 each	180 " "	
			580 " "
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 " "	
			120 " "
	Petty Establishments		
1	Mistry	15 " "	
			15 " "
	Office		
1	Clerk	30 " "	
1	Draftsman	25 " "	
3	Overseers Writers at 15 each	45 " "	
2	Sub-Overseers Do at 15 each	30 " "	
3	Divisional Peons at 7 each	21 " "	
6	Overseers Do at 6 each	36 " "	
2	Sub-Overseers Do at 6 each	12 " "	
			209 " "
	Accounts		
1	Accountant	50 " "	
			50 " "
	Grand Total		974 " "

Nellore Southern Division

	Particulars	Amounts	Total
	Engineers		
	— Nil —		
	Upper Subordinates		
1	Sub-Engineer 2nd Grade	300 " "	
1	Supervisor 2nd Grade	150 " "	
1	Overseer 1st Grade	100 " "	
2	Do 2nd Grade at 80 each	160 " "	
5			710 " "
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 " "	
2	Do at 35 each	70 " "	
			190 " "
	Petty Establishments		
1	Gumasta	10 " "	
1	Store-keeper	8 " "	
			18 " "
	Office		
1	Clerk	30	
1	Do	20	
1	Draftsman	40	
1	Sub Divisional Writer	25	
3	Overseers Writers at 15 each	45 " "	
2	Sub-Overseers Do at 15 each	30 " "	
2	Do at 10 each	20 " "	
3	Divisional Peons at 7 each	21 " "	
2	Sub Divisional Do at 7 each	14 " "	
6	Overseers Do at 6 each	36 " "	
4	Sub-Overseers Do at 6 each	24 " "	
			305 " "
	Accounts		
1	Accountant	60 " "	
			60 " "
	Grand Total		1283 " "

Nilgiri Division

Particulars	Separate	Total
Engineers		
1 Executive Engineer 2nd Grade	200 ..	
Assistant	120 ..	
		320 ..
Upper Subordinates		
1 Overseer 1st Grade	100 ..	
Salary allowance	20 ..	
1 Overseer 2nd Grade	80 ..	
		200 ..
Lower Subordinates		
1 Sub-Overseer	75 ..	
1 Do	55 ..	
3 Tascars at 8 each	60 ..	
		190 ..
Office		
1 Draftsman	45 ..	
1 Store-keeper	45 ..	
2 Overseer's Writers at 15 each	30 ..	
4 Divisional tascars at 7 each	28 ..	
4 Overseer's Do at 6 each	24 ..	
1 Sub-Overseer's Do	6 ..	
		223 ..
Accounts		
1 Accountant	70 ..	
1 Do	60 ..	
1 Do	45 ..	
		175 ..
Grand Total		1732 ..

Palakkad Division

Particulars	Separate	Divisions
Engineers		
1 Assistant Engineer 1st Grade	450 ..	
		450 ..
Upper Subordinates		
1 Overseer 3rd Grade	60 ..	
Military allowance	25	210
2 Overseers 3rd Grade at 60 each	120 ..	
		205 210
Lower Subordinates		
1 Sub-Overseer	45 ..	
2 Do at 25 each	50 ..	
		95 ..
Petty Establishments		
Office		
1 Clerk	25 ..	
1 Draftsman	40 ..	
3 Overseer's Writer at 15 each	45 ..	
3 Divisional tascars at 7 each	21 ..	
6 Overseer's Do at 6 each	36 ..	
		167 ..
Accounts		
1 Accountant	50 ..	
		50 ..
Grand Total		967 210

Remainder Division

Particulars	Amounts	Total
Engineers		
— Nil —		
Upper Subordinates		
1 Supervisor 2nd Grade	100	
Military allowance	100	
1 Supervisor 2nd Grade	150	
1 Overseer 1st Grade	100	
Military allowance	40 7 6	
1 Overseer 1st Grade	100	
3 Do 3rd Grade at 60 each	180	
		770 7 6
Lower Subordinates		
3 Sub-Overseers at 20 each	60	
		60 .. ..
Petty Establishments		
2 Kopistics at 15 each	30	
1 Do	10	
		40 .. ..
Office		
1 Clerk	25	
1 Draftsman	40	
1 Sub-Divisional Writer	25	
4 Overseers Writers at 15 each	60	
3 Divisional Tasmen at 7 each	21	
2 Sub-Divisional Do at 7 each	14	
8 Overseers Do at 6 each	48	
1 Sub-Overseers Do	6	
		239 .. ..
Accounts		
1 Accountant	50	
		50 .. ..
Grand Total		1159 7 6

Stores Assistant Division

Particulars	Approvals	Total
Engineers		
1 Assistant Engineers 2nd Grade	650	
Mutharyattavarcu	70	
		420 ..
Upper Subordinates		
— Nil —		
Lower Subordinates		
— Nil —		
Petty Establishments		
— Nil —		
Office		
— Nil —		
Accounts		
— Nil —		
Grand Total		420 ..

Stores Division

Particulars	Approvals	Total
Engineers		
— Nil —		
Upper Subordinates		
1 Sub-Engineer 3rd Grade	250	
1 Supervisor 2nd Grade	150	
1 Overseer 2nd Grade	80	
1 — Do — 3rd Grade	60	
		540 .. ..
Lower Subordinates		
1 Sub-Overseer	60	
2 — Do — at 20 each	40	
		100 .. ..
Petty Establishments		
2 Mpistries at 25 each	50	
		50 .. ..
Office		
1 Clerk	25	
1 Draftsman and	40	
3 Overseer's Writers at 15 each	45	
3 Divisional Peons at 7 each	21	
6 Overseer's — Do — at 6 each	36	
1 Sub-Overseers — Do —	6	
		173 .. ..
Accounts		
1 Accountant	50	
		50 .. ..
Grand Total		913 .. ..

Penderyn

Particulars	Separate	Total
Engineer		
1 Superintending Engineer 2nd Grade	800 ..	
Forage Master	182 10 ..	
1 Assistant Engineer 3rd Grade	200 ..	
Lieutenancy allowance	195 ..	
Forage Master	70 ..	
Horse keep	40 ..	
1 Assistant Engineer 2nd Grade	200 ..	
Military allowance	195 ..	
Forage Master	70 ..	
Horse keep	40 ..	1996 ..
Ulster Subordinates		
1 Superintendent 1st Grade	120 ..	
Military allowance	80 ..	
Horse keep	10 ..	
1 Overseer 1st Grade	100 ..	
Horse keep	10 ..	
3 Overseers 2nd Grade at 60 each	180 ..	
Horse keep at 10 each	30 ..	630 ..
Lower Subordinates		
Nil		
Petty Establishments		
1 Store-keeper	25 ..	
1 Gunsmith	25 ..	
1 Foreman	20 ..	
1 Clerk of Cut	17 ..	
1 Do	17 ..	
1 Gunsmith	16 ..	
1 Clerk of Cut	10 ..	
	11 4 .	140 4 .
Office		
1 Clerk	25 ..	
2 Assistants at 50 each	100 ..	
1 Draftsman at 50 and 40 ards	90 ..	
2 Do at 25 each	50 ..	
6 Overseers Writers at 15 each	90 ..	
2 Horses at 6 each	12 ..	
2 Overseers Horses at 6 each	12 ..	428 ..
Accounts		
1 Accountant	80 ..	
1 Do	80 ..	
1 Do	40 ..	240 ..
Grand Total		3388 4 ..

Particulars	Separate	Total
Engineer		
Nil		
Ulster Subordinates		
1 Sub-Engineer 1st Grade	400 ..	
2 Overseers 3rd Grade at 60 each	120 ..	520 ..
Lower Subordinates		
1 Sub-Overseer	45 ..	
2 Do at 30 each	60 ..	105 ..
Petty Establishments		
Nil		
Office		
1 Clerk	25 ..	
1 Draftsman	40 ..	
2 Overseers Writers at 15 each	30 ..	
3 Divisional Tuscars at 7 each	21 ..	
4 Overseers Do at 6 each	24 ..	
1 Sub-Overseers Do	6 ..	146 ..
Accounts		
1 Accountant	50 ..	50 ..
Grand Total		821 ..

Permanent

	Particulars	Amounts	Total
	Engineers		
1	Assistant Engineer 1st Grade	150 ..	
			450 ..
	Upper Subordinates		
1	Overseer 2nd Grade	80 ..	
			80 ..
	Lower Subordinates		
2	Sub Overseers at 60 each	120 ..	
2	Do at 20 each	40 ..	
			160 ..
	Petty Establishments		
1	Gunnastè	10 ..	
			10 ..
	Office		
1	Clerk	25 ..	
1	Draftsman	40 ..	
1	Overseer's Writer	15 ..	
2	Sub-Overseers Do at 15 each	30 ..	
3	Divisional tascars at 7 each	21 ..	
2	Overseers Do at 6 each	12 ..	
2	Sub Overseers Do	12 ..	
			155 ..
	Accounts		
1	Accountant	50 ..	
			50 ..
	Grand Total		905 ..

Repairs

1857

	Particulars	Amounts	Total
	Engineers		
1	Executive Engineer 4th Grade	550 ..	
			550 ..
	Upper Subordinates		
1	Sub-Engineer 3rd Grade	260 ..	
1	Overseer 2nd Grade	80 ..	
1	Do 3rd Grade	60 ..	
			390 ..
	Lower Subordinates		
1	Sub Overseer	60 ..	
2	Do at 20 each	40 ..	
			100 ..
	Petty Establishments		
1	Gunnastè	15 ..	
			15 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
1	Sub-Divisional Writer	25 ..	
1	Overseers Writer	15 ..	
1	Sub-Overseers Do	15 ..	
3	Divisional tascars at 7 each	21 ..	
2	Sub Divisional Do at 7 each	14 ..	
2	Overseers tascars at 6 each	12 ..	
1	Sub-Overseers Do	6 ..	
			198 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		1313 ..

Salwee Division

Particulars	Amounts	Total
Engineers		
1 Executive Engineer 3rd Grade	650 ..	
1 Assistant Engineer 2nd Grade	350 ..	
		1000 ..
Upper Subordinates		
1 Supervisor 2nd Grade	150 ..	
1 Overseer 1st Grade	100 ..	
1 Do 2nd Grade	80 ..	
2 Do 3rd Grade at 60 each	120 ..	
		450 ..
Lower Subordinates		
1 Sub Overseer	60 ..	
2 Do at 20 each	40 ..	
		100 ..
Petty Establishments		
4 Registrars at 10 each	40 ..	
1 Do	7 ..	
		47 ..
Office		
1 Clerk	30 ..	
1 Do	20 ..	
1 Draftsman	40 ..	
1 Extra Writer	20 ..	
4 Overseers Writers at 15 each	60 ..	
3 Divisional Tascars at 7 each	21 ..	
2 Extra Do at 7 each	14 ..	
8 Overseers Do at 6 each	48 ..	
		255 ..
Accounts		
1 Accountant	60 ..	
		60 ..
Grand Total		1812 ..

Shevaroy Division

Particulars	Amounts	Total
Engineers		
Nil		
Upper Subordinates		
1 Supervisor 2nd Grade	150 ..	
1 Overseer 2nd Grade	80 ..	
Military allowance	39 11	
1 Overseer 2nd Grade	80 ..	
1 Do 3rd Grade	60 ..	
		409 11
Lower Subordinates		
1 Sub Overseer	60 ..	
2 Do at 20 each	40 ..	
		100 ..
Petty Establishments		
Nil		
Office		
1 Clerk	30 ..	
1 Do	20 ..	
1 Draftsman	40 ..	
1 Sub Divisional Writer	25 ..	
3 Overseers Do	45 ..	
1 Sub Overseers Do	15 ..	
3 Divisional Tascars at 7 each	21 ..	
2 Sub Divisional Do	14 ..	
6 Overseers Do	36 ..	
1 Sub Overseers Do	6 ..	
		252 ..
Accounts		
1 Accountant	60 ..	
		60 ..
Grand Total		821 11

Sirdut Division

Particulars	Amounts	Total
Engineers		
Sil		
Ulper Subordinates		
1 Supervisor 1st Grade	120 ..	
Military allowance	100 ..	
1 Supervisor 2nd Grade	150 ..	
2 Overseers 3rd Grade	160 ..	
1 Do 3rd Grade	60 ..	
		590 ..
Lower Subordinates		
1 Sub-Overseer	100 ..	
1 Do	110 ..	
		100 ..
Petty Establishments		
1 Mistry	20 ..	
2 Do at 15 each	30 ..	
		50 ..
Office		
1 Clerk	25	
1 Draftsman	40	
1 Sub-Divisional Writer	25	
3 Overseers Do at 15 each	45	
2 Sub-Overseers Do at 15 each	30	
3 Divisional Peons at 7 each	21	
2 Sub-Divisional Peons at 7 each	14	
6 Overseers Do at 6 each	36	
3 Sub-Overseers Do at 6 each	18	
		254 ..
Accounts		
1 Accountant	50 ..	
		50 ..
Grand Total		1044 ..

Sirdut Division

Particulars	Amounts	Total
Engineers		
1/1 Assistant Engineers 1st Grade	450 ..	
Total Engineers		450 ..
Ulper Subordinates		
1 Supervisor 1st Grade	120 ..	
Military allowance	80 ..	
2 Overseers 3rd Grade at 60 each	120 ..	
Total Ulper Subordinates		320 ..
Lower Subordinates		
1 Sub-Overseer	60 ..	
1 Do	20 ..	
1 Canal Mistry	55 ..	
		135 ..
Petty Establishments		
2 Mistries at 15 each	30 ..	
		30 ..
Office		
1 Clerk	30 ..	
1 Do	20 ..	
1 Draftsman	40 ..	
1 Sub-Divisional Writer	25 ..	
2 Overseers Writers at 15 each	30 ..	
1 Sub-Overseers Do	15 ..	
3 Divisional Peons at 7 each	21 ..	
2 Sub-Divisional Do	14 ..	
4 Overseers Do	24 ..	
1 Sub-Overseers Do	6 ..	
		225 ..
Accounts		
1 Accountant	60 ..	
		60 ..
Grand Total		1220 ..

Store Division

No.	Particulars	Amounts	Total
	Engineer		
1	Subordinate at	300 "	
	Personal Allowance	100 "	400 "
	Upper Subordinates		
	— Nil —		
	Lower Subordinates		
	— Nil —		
	Office		
1	Store Keeper	200 "	
1	Do	70 "	
1	Do	60 "	
1	Clerk	25 "	
1	Draftsman	9 "	
6	Peons at 7 each	42 "	
12	Lascars at 6 each	72 "	
			450 "
	Servants		
1	Sepoy Orderly	60 "	60 "
		Grand Total	910 "

* The Salaries Rs 300 and Rs 100 - being ordinary and Personal respectively drawn by the Subordinate at present attached to the Store being deducted as Officiating

Gunjore Division

No.	Particulars	Amounts	Total
	Engineer		
1	Assistant Engineer 1st Grade	450 "	
	Pay & Proper	70 "	
1	Assistant Engineer 2nd Grade	350 "	870 "
	Upper Subordinates		
1	Supervisor 1st Grade	120 "	
	Military Allowance	80 "	
1	Overseer 2nd Grade	120 "	
2	Do 3rd Grade at 60 each	120 "	440 "
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 "	
3	Do at 20 each	60 "	180 "
	Petty Establishments		15 "
1	Khaistry	12 "	
1	Topseers	40 "	
4	Do at 10 each	8 "	75 "
1	Do		
	Office		
1	Clerk	30 "	
1	Do	20 "	
1	Draftsmans	40 "	
2	Sub-Divisional Writers at 25 each	50 "	
3	Overseers Writers at 15 each	45 "	
2	Sub-Overseers Do at 15 each	30 "	
3	Divisional Lascars at 7 each	21 "	
4	Sub-Divisional Do at 7 each	28 "	
6	Overseers Lascars at 6 each	36 "	
2	Sub-Overseers Do at 6 each	12 "	
			312 "
	Servants		
1	Sepoy Orderly	60 "	60 "
		Grand Total	1897 "

Yiewsley Division

	Particulars	£ pounds	Total
	Engineers		
1	Executive Engineer 1st Grade	300 ..	
	Military allowance	300 ..	600 ..
	Upper Subordinates		
1	Overseer 3rd Grade	80 ..	
1	Do 5th Grade	60 ..	140 ..
	Lower Subordinates		
1	Sub-Overseer	30 ..	
1	Do	40 ..	70 ..
	Petty Establishments		
1	Mail boy	15 ..	
1	Do	14 ..	
2	Do at 12 each	24 ..	53 ..
	Office		
1	Clerk	90 ..	
1	Do	15 ..	
2	Overseers Writers at 15 each	30 ..	
2	Sub-Overseers Do at 15 each	30 ..	
3	Divisional Peons at 7 each	21 ..	
4	Overseers Do at 6 each	24 ..	
2	Sub-Overseers Do at 6 each	12 ..	152 ..
	Accounts		
1	Accountant	40 ..	
	Total Amount		40 ..
	Grand Total		1015 ..

Yiewsley Division

	Particulars	£ pounds	Total
	Engineers		
1	Assistant Engineers 1st Grade	450 ..	
1	Do 2nd Grade	350	800 ..
	Upper Subordinates		
1	Supervisor 2nd Grade	100 ..	
	Military allowance	100 ..	
2	Overseers 2nd Grade at 80 each	160 ..	
2	Do 3rd Grade at 60 each	120 ..	480 ..
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 ..	
4	Do at 20 each	80 ..	200 ..
	Petty Establishments		
	Silk		
	Office		
1	Clerk	30 ..	
1	Do	25 ..	
1	Draftsman	20 ..	
1	Sub-Divisional Officer	40 ..	
1	Special Establishment Clerk	25 ..	
1	Do Draftsman	30 ..	
4	Overseers Writers at 15 each	40 ..	
2	Sub-Overseers Do at 15 each	60 ..	
4	Divisional Peons at 7 each	28 ..	
2	Sub-Divisional Do at 7 each	14 ..	
4	Special Establishment Peons at 7	28 ..	
8	Overseers Do at 6 each	48 ..	
2	Sub-Overseers Do at 6 each	12 ..	430 ..
	Accounts		
1	Accountant	70 ..	
	Total Amount		70 ..
	Grand Total		1980 ..

Toriwanella Northern Division

Particulars	Separate	Total
Engineers		
Nil		
Other Subordinates		
1 Sub Engineer 1st Grade	400	
1 Overseer 2nd Grade	80	
2 Do 3rd Grade at 60 each	120	
		600
Lower Subordinates		
2 Sub Overseers at 20 each	40	
		40
Establishments		
Nil		
Offices		
1 Clerk	20	
1 Do	30	
1 Draftsman	40	
1 Sub Divisional Workers	25	
3 Overseers Workers at 15 each	45	
3 Divisional Peons at 7 each	21	
2 Sub Divisional Do at 5 each	10	
6 Overseers Do at 6 each	36	
		231
Accounts		
1 Accountant	60	
		60
Grand Total		931

Toriwa Division

Particulars	Separate	Total
Engineers		
Nil		
Other Subordinates		
1 Supervisor 1st Grade	120	
Military allowance	100	
1 Overseer 2nd Grade	80	
Military allowance	39 11	
2 Overseers 3rd Grade at 60 each	120	
		459 11
Lower Subordinates		
Nil		
Establishments		
2 Mistries at 15 each	30	
		30
Offices		
1 Clerk		
1 Do	20	
3 Overseers Workers at 15 each	15	
3 Divisional Peons	45	
6 Overseers Do at 6 each	21	
	36	
		137
Accounts		
1 Accountant	40	
		40
Grand Total		666 11

Workshop Division

		Particulars	Amounts	Total
		Engineer		
1		Superintending Engineer 1st Grade	350 ..	
1		Engineer 2nd Grade	250 ..	
2				600 ..
		Other Subordinates		
1		Overseer 1st Grade	100 ..	
5		Do 2nd Grade at 20 each	100 ..	
1		Do	80 ..	
		Working allowance	40 7b	
7				320 7b
		Lower Subordinates		
1		Sub Overseer	60 ..	
2		Do at 20 each	40 ..	
3				100 ..
		Petty Establishments		
1		Mistry	35 ..	
1		Do	25 ..	
1		Store Keeper	20 ..	
2		Assistants at 15 each	30 ..	
1		Coal Cooly	9 ..	
1		Messenger	8 ..	
1		Watchmen	7 ..	
1		Peon	6 ..	
11				140 ..
		Office		
1		Clerk	30 ..	
1		Do	25 ..	
1		Do	20 ..	
1		Draftsmen	40 ..	
4		Overseers Writers at 15 each	60 ..	
1		Sub Overseers Do	15 ..	
4		Divisional Peons at 7 each	28 ..	
8		Overseers Do at 6 each	40 ..	
1		Sub Overseers Do	6 ..	
21				272 ..
		Accounts		
1		Accountant	70	
1				70 ..
		Grand Total		1802 156

Workshop Division

		Particulars	Amounts	Total
		Engineer		
		Nil		
		Other Subordinates		
1		Sub Engineer 3rd Grade	350 ..	
1		Overseer 3rd Grade	60 ..	
2				410 ..
		Lower Subordinates		
1		Sub Overseer	60 ..	
2		Do at 20 each	40 ..	
3				100 ..
		Petty Establishments		
1		Mistry	28 ..	
1				28 ..
		Office		
1		Clerk	20 ..	
1		Do	15 ..	
1		Overseers Writers	15 ..	
1		Sub Overseers Do	15 ..	
3		Divisional Peons	15 ..	
2		Overseers Do	21 ..	
1		Sub Overseers Do	12 ..	
1		Do	6 ..	
10				104 ..
		Accounts		
1		Accountant	40 ..	
1				40 ..
		Grand Total		582 ..

Upper Division

	Particulars	Amounts	Total
	Engineers		
1	Executive Engineer 2d Grade	550 ..	
			550 ..
	Upper Subordinates		
1	Overseer 1st Grade	100 ..	
1	Overseer 1st Grade	100 ..	
	Military allowances	39 3 11	
1	Overseer 1st Grade	100 ..	
	Military allowances	39 3 11	
1	Overseer 3rd Grade	80 ..	
			458 7 10
	Lower Subordinates		
1	Sub-Overseer	60 ..	
2	Do — at 20 each	40 ..	
			100 ..
	Petty Establishments		
3	Maistries at 10 each	30 ..	
			30 ..
	Office		
1	Clerk	25 ..	
1	Draftsman	20 ..	
3	Overseer's Writers at 15 each	45 ..	
3	Divisional Peons at 7 each	21 ..	
6	Overseer's Do at 6 each	36 ..	
			167 ..
	Accounts		
1	Accountant	50 ..	
			50 ..
	Grand Total		955 7 10

Upper Division

	Particulars	Amounts	Total
	Engineers		
2	Assistant Engineers at 350 each	700 ..	
			700 ..
	Upper Subordinates		
1	Overseer 2nd Grade	80 ..	
	Military allowances	39 3 11	
1	Overseer 2nd Grade	80 ..	
1	Do — 3rd Grade	60 ..	
			259 3 11
	Lower Subordinates		
1	Sub-Overseer	60 ..	
2	Do — at 20 each	40 ..	
			100 ..
	Petty Establishments		
1	Maistry	15 ..	
			15 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	10 ..	
2	Overseer's Writers at 15 each	30 ..	
3	Divisional Peons at 7 each	21 ..	
4	Overseer's Do	24 ..	
1	Sub-Overseer's Do	6 ..	
			171 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		1305 3 11

Vizianagaram Division

Particulars	Amounts	Total
Engineers		
1 Executive Engineer 1st Grade	550..	
1 Assistant Engineer 1st Grade	450..	
		1000..
Upper Subordinates		
1 Supervisor 2nd Grade	100..	
Military allowance	80..	
1 Overseer 1st Grade	100..	
Military allowance	80..	
1 Overseer 3rd Grade	60..	
		420.10
Lower Subordinates		
1 Sub-Overseer	60..	
3 Do at 20 each	60..	
		120..
Petty Establishments		
Nil		
Office		
1 Clerk	30..	
1 Do	20..	
1 Draftsman	40..	
1 Sub-Divisional Writer	25..	
2 Overseers Writers at 15 each	30..	
2 Sub-Overseers Do at 15 each	30..	
2 Divisional Peons at 7 each	21..	
4 Overseers Do at 6 each	24..	
2 Sub-Overseers Do at 6 each	12..	
		246..
Accounts		
1 Accountant	60..	
		60..
Grand Total		1875 12 10

Vizianagaram Division

Particulars	Amounts	Total
Engineers		
1 Executive Engineer 1st Grade	550..	
1 Assistant Engineer 1st Grade	450..	
		1000..
Upper Subordinates		
1 Supervisor 2nd Grade	100..	
Military allowance	80..	
1 Overseer 1st Grade	100..	
Military allowance	80..	
1 Overseer 3rd Grade	60..	
		420.10
Lower Subordinates		
1 Sub-Overseer	60..	
3 Do at 20 each	60..	
		120..
Petty Establishments		
Nil		
Office		
1 Clerk	30..	
1 Do	20..	
1 Draftsman	40..	
1 Sub-Divisional Writer	25..	
2 Overseers Writers at 15 each	30..	
2 Sub-Overseers Do at 15 each	30..	
2 Divisional Peons at 7 each	21..	
4 Overseers Do at 6 each	24..	
2 Sub-Overseers Do at 6 each	12..	
		246..
Accounts		
1 Accountant	60..	
		60..
Grand Total		1875 12 10

Viravachelam Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 3rd Grade	650 ..	
1	Assistant Engineer 3rd Grade	250 ..	
2			900 ..
	Upper Subordinates		
1	Supervisor 3rd Grade	150 ..	
2	Overseers 3rd Grade at 80 each	160 ..	
2	Do 3rd Grade at 60 each	120 ..	
			430 ..
	Lower Subordinates		
1	Sub-Overseer	60 ..	
1	Do	50 ..	
1	Do	40 ..	
			150 ..
	Petty Establishments		
1	Maistry	20 ..	
1	Do	16 ..	
2	Do at 15 each	30 ..	
			66 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
1	Sub-Divisional Writer	25 ..	
4	Overseers Do at 15 each	60 ..	
3	Sub-Overseers Do at 15 each	45 ..	
3	Divisional Lascars at 7 each	21 ..	
8	Overseers Do at 6 each	48 ..	
2	Sub-Divisional Do at 7 each	14 ..	
3	Sub-Overseers Do at 6 each	18 ..	
			321 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		1927 .. ..

Vizianagaram Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 4th Grade	550 ..	
1	Assistant Engineer 1st Grade	450 ..	
			1000 ..
	Upper Subordinates		
1	Supervisor 2nd Grade	100 ..	
	Military allowance	80 ..	
1	Overseer 1st Grade	100 ..	
1	Do 2nd Grade	80 ..	
	Military allowance	29 12 10	
1	Overseer 3rd Grade	60 ..	
			449 12 10
	Lower Subordinates		
1	Sub-Overseer	60 ..	
2	Do at 30 each	60 ..	
			120 ..
	Petty Establishments		
	Nil		
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
1	Sub-Divisional Writer	25 ..	
2	Overseers Writers at 15 each	30 ..	
2	Sub-Overseers Do at 15 each	30 ..	
3	Divisional Lascars at 7 each	21 ..	
2	Sub-Divisional Do at 7 each	14 ..	
4	Overseers Do at 6 each	24 ..	
2	Sub-Overseers Do at 6 each	12 ..	
			246 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		1875 12 10

Valais Division

	Particulars	Approvals	Total
	Engineers		
1	Executive Engineer 1st Grade	300 ..	
1	Military allowance	225 ..	
	Assistant Engineer 2nd Grade	250 ..	
			775 ..
	Upper Subordinates		
1	Overseer 2nd Grade	80 ..	
2	Do 3rd Grade at 60 each	120 ..	
			200 ..
	Lower Subordinates		
2	Sub-Overseers at 60 each	120 ..	
2	Do at 20 each	40 ..	
			160 ..
2	Masons at 17/8 each	35 ..	
1	Watchman	5 ..	
			40 ..
	Office		
1	Clerk	30 ..	
1	Do	20 ..	
1	Draftsman	40 ..	
2	Overseers Writers at 15 each	30 ..	
3	Divisional Peons at 7 each	21 ..	
2	Sub-Divisional Do at 7 each	14 ..	
4	Overseers Do at 6 each	24 ..	
2	Sub-Overseers Do at 6 each	12 ..	
			216 ..
	Accounts		
1	Accountant	60 ..	
			60 ..
	Grand Total		1451 ..

West Coast Canals Division

	Particulars	Approvals	Total
	Engineer		
	Nil		
	Upper Subordinates		
	Nil		
	Lower Subordinates		
	Nil		
	Petty Establishments		
1	Mastery	25 ..	
1	Storekeeper	13 ..	
1	Watchman	7 ..	
			35 ..
	Office		
1	Clerk	30 ..	
1	Draftsman	40 ..	
4	Peons at 7 each	28 ..	
			98 ..
	Accounts		
	Nil		
	Grand Total		133 ..

Cjeconadu Division

	Particulars	Amounts	Total
	Engineer		
1	Executive Engineer 3rd Grade	400 " "	
1	Military allowance	300 " "	
			700 " "
	Upper Subordinates		
1	Overseer 2nd Grade	80 " "	
	Hyderabad allowance	40 " "	
1	Overseer 3rd Grade	60 " "	
			180 " "
	Lower Subordinates		
1	Sub-Overseer	25 " "	
			25 " "
	Petty Establishments		
1	Superintendent	55 " "	
1	Apothecary	20 " "	
			75 " "
	Offices		
1	Clerks	25 " "	
1	Draftsmans	40 " "	
1	Overseer's Writer	15 " "	
	Hyderabad allowance	7 8 "	
1	Overseer's Writer	15 " "	
3	Divisional Cascars at 7 each	21 " "	
2	Overseer's Do at 6 each	12 " "	
	Hyderabad allowance	6 " "	
2	Sub-Overseer's Cascars at 6 each	12 " "	
			153 8 "
	Accounts		
1	Superintendent	50 " "	
			50 " "
	Grand Total		1183 8 "

Petty Establishment for the Budget of 1878/79

District	Division	No	Rate	Amount	Total
	Superintendents				
Bangalore	Bangalore	1	60 " "	60 " "	
	"	1	40 " "	40 " "	
		2			100 " "
Coimbatore	Karur	2	35 " "	70 " "	70 " "
	Caligal	1	60 " "	60 " "	60 " "
Ganjam	Barampur	1	30 " "	30 " "	30 " "
Malabar	Calicut	1	90 " "	90 " "	
	"	1	55 " "	55 " "	
	"	2	40 " "	80 " "	
	"	1	35 " "	35 " "	
	"	5			260 " "
	Kurumbanadu	1	35 " "	35 " "	
	Hyderabad allowance	17½			52 8 "
Tanjore	Tanjore	1	12 " "	12 " "	
	"	4	10 " "	40 " "	
	"	1	9 8 "	9 8 "	
	"	1	8 " "	8 " "	
		7			69 8 "
Vizagapatam	Jeypur Ghat	1	100 " "	100 " "	100 " "
	Total for Superintendents per Annum				747 " "
	Do Do per Annum				8904 " "
	Storekeepers				
Chingleput	Chingleput	1	20 " "	20 " "	20 " "
	Mount	1	25 " "	25 " "	25 " "
	Carried over Rupees				45 " "

3 6 6 7

District	Division	No	Rate	Amount	Total
	Brought forward		Rupees		15 " "
Ganjam	Chikkakol	1	12 " "	12 " "	12 " "
Godavery	Dumagudiam	1	50 " "	50 " "	50 " "
Kistna	Eastern Delta	1	30 " "	30 " "	
	"	1	10 " "	10 " "	
	"	1	8 8 "	8 8 "	
	"	3			48 8 "
	Guntur	1	8 8 "	8 8 "	
	"	2	8 " "	16 " "	24 8 "
	Western Delta	3			
		4	9 " "	9 " "	9 " "
Kurnool	Kurnool	1	12 " "	12 " "	12 " "
Madura	Madura	1	7 " "	7 " "	7 " "
Malabar	Calicut	1	15 " "	15 " "	15 " "
"	Kurumbranad	1	15 " "	15 " "	15 " "
"	Palghat	1	7 " "	7 " "	7 " "
Nellore	Central	1	8 " "	8 " "	8 " "
North Arcot	Southern	1	8 " "	8 " "	15 " "
	Chittur	1	15 " "	15 " "	
Presidency	Presidency	1	25 " "	25 " "	25 " "
	Total for Stone Cutters per Statement				301 " "
	Do Do per Statement				3417 " "
	Masonries				
Bangalore	Bangalore	1	45 " "	45 " "	
"	"	1	30 " "	30 " "	
"	"	1	25 " "	25 " "	
"	"	1	12 " "	12 " "	
"	"	1	10 " "	10 " "	
"	"	5			122 " "
Bellary	Bellary	1	40 " "	40 " "	
"	"	1	35 " "	35 " "	
"	"	1	27 " "	27 " "	
"	"	2	15 " "	30 " "	
		5			132 " "
	Carried over Rupees				254 " "

1894

District	Division	No	Rate	Amount	Total
	Brought forward		Rupees		254 " "
	Gati	1	25 " "	25 " "	
	"	1	17 8 "	17 8 "	42 8 "
	Hospetta	1	17 8 "	17 8 "	
	"	6	20 " "	120 " "	
		7			147 8 "
	Penaikonda	1	17 8 "	17 8 "	
	"	1	15 " "	15 " "	
		2			32 8 "
Cuddapah	Cuddapah	1	20 " "	20 " "	
	"	2	15 " "	30 " "	
		3			50 " "
	Madanapalli	1	20 " "	20 " "	
	"	2	15 " "	30 " "	
		3			50 " "
	Sidout	1	20 " "	20 " "	
	"	2	15 " "	30 " "	
		3			50 " "
Chingleput	Chingleput	1	15 " "	15 " "	
	"	1	10 " "	10 " "	
		2			25 " "
	Mount	1	25 " "	25 " "	
		1	21 " "	21 " "	
		1	14 8 "	14 8 "	
		3			60 8 "
	Sirulur	2	15 " "	30 " "	30 " "
Coimbatore	Coimbatore	1	25 " "	25 " "	25 " "
Godavery	Central Delta	3	20 " "	60 " "	60 " "
	Eastern Dilla	1	25 " "	25 " "	
	"	3	20 " "	60 " "	
		4			85 " "
	Western Delta	1	30 " "	30 " "	
	"	1	25 " "	25 " "	
	"	3	20 " "	60 " "	115 " "
	Carried over Rupees				1027 " "

District	Division	No	Rate	Amount	Total
	Brought forward Rupees				1027
Kurnool	Kurnool	1	25 a a	25 a a	25 a a
	Kurnool	1	25 a a	25 a a	
	"	2	15 a a	30 a a	
		3			55 a a
	Nundial	2	15 a a	30 a a	30 a a
Kistna	Guntur	1	20 a a	20 a a	
	"	1	16 a a	16 a a	
	"	1	11 8 a	11 8 a	
		3			47 a a
Malabar	Palghat	1	25 a a	25 a a	25 a a
Nellore	Coutral	1	27 a a	27 a a	27 a a
	Northern	1	15 a a	15 a a	15 a a
Nilgiri	Nilgiri	1	60 a a	60 a a	60 a a
North Arcot	Chittur	1	20 a a	20 a a	20 a a
	Polur	2	25 a a	50 a a	50 a a
	Vellore	1	15 a a	15 a a	15 a a
	Walaja	2	17 8 a	35 a a	35 a a
Presidency	Presidency	1	20 a a	20 a a	20 a a
	"	1	17 a a	17 a a	17 a a
	"	1	15 a a	15 a a	15 a a
	"	1	11 4 a	11 4 a	11 4 a
		4			63 4 a
Salem	Salem	4	10 a a	40 a a	40 a a
	"	1	7 a a	7 a a	7 a a
		5			47 a a
	Tirupatur	2	15 a a	30 a a	30 a a
	Ussur	3	10 a a	30 a a	30 a a
South Arcot	Cudalore	1	20 a a	20 a a	
	"	2	15 a a	30 a a	
	"	2	14 a a	28 a a	
		5			78 a a
	Carried over Rupees				1679 12 a

District	Division	No	Rate	Amount	Total
	Brought forward Rupees				1679 12 a
South Arcot	Tindivanum	1	15 a a	15 a a	
	"	1	14 a a	14 a a	
	"	2	12 a a	24 a a	
		4			53 a a
	Virudachalam	1	20 a a	20 a a	
	"	2	16 a a	32 a a	
	"	2	15 a a	30 a a	
		5			82 a a
Tanjore	Mayavaram	4	15 a a	60 a a	60 a a
	Manargudi	2	15 a a	30 a a	
	"	1	10 a a	10 a a	
		3			40 a a
	Nagapatam	2	13 a a	26 a a	
	"	2	12 8 a	25 a a	
		4			51 a a
	Tanjore	1	15 a a	15 a a	15 a a
Trichinopoly	Musiri	1	25 a a	25 a a	
	"	1	18 a a	18 a a	
	"	2	15 a a	30 a a	
		4			73 a a
	Trichinopoly	1	40 a a	40 a a	
	"	1	30 a a	30 a a	
	"	1	29 a a	29 a a	
	"	1	15 a a	15 a a	
	"	1	7 a a	7 a a	
		5			121 a a
	Udaiyarpalaiyam	1	20 a a	20 a a	
	"	1	15 a a	15 a a	
	"	1	12 a a	12 a a	
		3			47 a a
	Total per Inclosure	121			2221 12 a
	Do per Annum				26,661 a a

District	Division	No	Rate	Amount	Total
	Gunnastahs.				
Chingleput	Mount	1	15 a.	15 a.	15 a.
Ganjam	Berhampore	2	15 a.	30 a.	
"	"	1	10 a.	10 a.	
		3			40 a.
	Chikkakol	2	15 a.	30 a.	
"	"	1	10 a.	10 a.	
		3			40 a.
Godavery	Central Delta	2	12 a.	24 a.	24 a.
	Eastern Delta	3	10 a.	30 a.	30 a.
	Ellur	2	15 a.	30 a.	30 a.
	Rajamahendri	1	10 a.	10 a.	10 a.
	Western Delta	1	10 a.	10 a.	
"	"	1	12 a.	12 a.	22 a.
		2			
Kistna	Eastern Delta	2	12 a.	24 a.	
"	"	1	7 a.	7 a.	31 a.
		3			
	Western Delta	1	15 a.	15 a.	15 a.
Malabar	Calicut	1	40 a.	40 a.	40 a.
Nellore	Southern	1	10 a.	10 a.	10 a.
Presidency	Presidency	1	25 a.	25 a.	
"	"	1	17 a.	17 a.	
"	"	1	10 a.	10 a.	52 a.
		3			
Vizagapatam	Jeypur Ghat	1	15 a.	15 a.	15 a.
	Total per Measure	27			374 a.
	Do per Annum				4488 a.
	Apothecaries & Hospital Assistants				
Godavery	Dumagudium	1	80 a.	80 a.	80 a.
	Eastern Delta	1	40 a.	40 a.	40 a.
	Ellur	1	25 a.	25 a.	25 a.
Kistna	Eastern Delta	1	35 a.	35 a.	35 a.
Kurnool	Kurnool	1	25 a.	25 a.	25 a.
	Carried over Rupees				255 a.

District	Division	No	Rate	Amount	Total
	Brought forward Rupees				255 a.
Nilgiri	Nilgiri	1	20 a.	20 a.	20 a.
Vizagapatam	Jeypur Ghat	1	50 a.	50 a.	50 a.
	Total per Measure	7			325 a.
	Do per Annum				3900 a.
	Engine Driver				
Godavery	Eastern Delta	1	20 a.	20 a.	20 a.
	Total per Annum				240 a.
	Peons				
Ganjam	Berhampore	1	5 a.	5 a.	5 a.
Bangalore	Bangalore	1	6 a.	6 a.	6 a.
	Total per Measure	2			11 a.
	Do per Annum				132 a.
	Lascars				
Bangalore	Bangalore	1	7 a.	7 a.	7 a.
Bellary	Bellary	2	7 a.	14 a.	14 a.
Chingleput	Mount	1	3 a.	3 a.	3 a.
Ganjam	Chikkakol	1	4 a.	4 a.	
"	"	1	2 a.	2 a.	
		2			6 a.
Godavery	Dumagudium	2	8 a.	16 a.	
"	"	8	7 a.	56 a.	
		10			72 a.
	Eastern Delta	2	8 a.	16 a.	
"	"	1	7 a.	7 a.	
"	"	1	4 a.	4 a.	
		4			27 a.
	Carried over Rupees				129 a.

District	Division	No.	Rate	Amount	Total
	Brought forward Rupees				17[illegible]
Kistna	Eastern Delta	1	3 9 .	3 8 .	
		1	2 8 .	2 8 .	
		2			1 .
	Guntur	1	5 . .	5 . .	5 .
Madura	Dindigal	1	4 . .	4 . .	4 .
	Madura	1	4 . .	4 . .	4 .
Malabar	Palghat	1	3 . .	3 . .	3 .
Nellore	Central	1	5 . .	5 . .	5 .
Nilgiri	Nilgiri	4	8 . .	32 . .	32 .
North Arcot	Walaja	1	3 . .	3 . .	
		1	5 . .	5 . .	8 .
		2			5 .
Presidency	Presidency	1	5 . .	5 . .	
Vizagapatam	Jeypur	3	6 . .	18 . .	
	Total per Diem rate	37			229 .
	Do per Annum				2[illegible] .

Appendix A

Statement showing the present and proposed classifications of Ranges in the Madras Presidency.

District.	Range.	As at present Imperial.	As at present Irrigation.	As at present Non Irrigation.	As at present Provincial.	As proposed Imperial.	As proposed Irrigation.	As proposed Non Irrigation.	As proposed Provincial.
Ganjam	Baraunpur				1				1
	Chikkakole				2				2
Vizagapatam	Golconda	1			11				3
	Vizianagaram				3				4
	Jeypur Ghat				4				5
Godavari	Eastern Delta	2					1		
	Central Delta	3					2		
	Western Delta	4					3		
	Ellore				5		4		
	Rajahmundri				6		5		
	Dumagoodium				7		6		
	Devisseemam	1					7		
Kistna	Kistali	5					8		
	Bapatla	6					9		
	Guntur				8		10		
	Palnad				9		11		
	Nundigama				10		12		
	Bezwada	7					13		
	Masulipatam	8					14		
Nellore	Southern	9					15		
	Central				11		16		
	Northern				12		17		
	East Coast Canal				13		18		
	Anicut	10					19		
Cuddapah	Cuddapah				14				
	Madanapalli				15				
	Sidout				16				

District	Range.	As at present Imperial Irrigation	As at present Imperial Non-Irrigation	As at present Provincial	As proposed Imperial Irrigation	As proposed Imperial Non-Irrigation	As proposed Provincial
	Coimbatore			42			26
Coimbatore.	Caligal			43			27
	Canir			44			28
	Irrigation			45			29
Nilgiri	Nilgiri			46			30
	Cannanur			47			31
	Calicut			48			32
Malabar.	Palghat			49			33
	Cochin			50			34
	North Wainad			51			36
	South Wainad			52			36
South Canara	Mangalur			53			37
	Puttur			54			38
Madura.	Madura			55	34		
	Dindigal			56	35		
Tinnevelli	Tinnevelli			57	36		
	do. Northern	14.			37		
	Shermadevi			58	38.		
Total		14.	5.	58.	38.	1	38.

Fort St George,
25th October 1875

Sgd/ L Conway Gordon
Controller P. W. Accounts.

True copy/

Charles A Hoffman
Supt Correspondence Branch

GLD

District	Range.	As at present Imperial Irrigation	As at present Imperial Non-Irrigation	As at present Provincial	As proposed Imperial Irrigation	As proposed Imperial Non-Irrigation	As proposed Provincial
Bellari	Bellari		2.				
	Hospetta			17			
	Guti			18			
	Sunkondi			19			
Kurnul.	Kurnul			20			
	Nundial			21			
	Kaunbaur			22			
Presidency.	Presidency			23			
	P. W. Store Department		3				
	P. W. Workshop			24			
	Architect			25			
Chenglepat.	Sirukul			26	20		
	Mount				21		
	Chenglepat		4	27	22		
North Arcot	Walaja			28	23		
	Chittur			29	24		
	Tellur			30	25		
	Polur		11		26		
South Arcot	Cudalur			31	27		
	Sedrivanum			32	28		
	Virudachalum		12		29		
Salem.	Salem			33			
	Upper			34			
	Sirumalai			35			
Bangalore	Bangalore		5				
Tanjore	Tanjore		13		30		
	Mayavarum			36	31		
	Negapatam			37	32		
	Mannargudi			38	33		
Trichinopoli	Trichinopoli			39			
	Musiri			40			
	Udaiarpolium			41			

Statement shewing the amount of Stock on 31st August 1875 in Provincial and Imperial Ranges to be transferred to Irrigation and in Imperial Ranges to be transferred to Provincial.

Districts	Ranges	As at present Imperial Irrigation	As at present Imperial Non Irrigation	As at present Provincial	As proposed Imperial Irrigation	As proposed Imperial Non Irrigation	As proposed Provincial
Ganjam	Barampûr						
	Chikhâkôl						
Vizagapatam	Golcondâ						
	Vizianagaram						
	Jeypûr Ghaut						
Godâvari	Eastern Delta						
	Central Delta						
	Western Delta						
	Ellûr				1762	1762	
	Rajamahindri						
	Nimagudiam				77987	77987	
	Poolewaram						
Kistna	Bapali						
	Bapatla						
	Guntûr						
	Palnâd						
	Nandigâma						
	Beswâdâ						
	Masulipatam						
	Carried over				79749	79749	

Districts	Ranges	As at present Imperial Irrigation	As at present Imperial Non Irrigation	As at present Provincial	As proposed Imperial Irrigation	As proposed Imperial Non Irrigation	As proposed Provincial
	Brought over			79749			79749
Nellore	Southern						
	Central						
	Northern						
	East Coast Canal						
	Penner anicat						
Cudapa	Cudapa						
	Sedout						
	Madanapalle						
Bellari	Bellari			2026			
	Hospetta						
	Gooty						
	Pennaikonda						
Kurnool	Kurnool						
	Nandial						
	Kambam						
Presidency	Presidency						
	P.W. Stores Department						
	P.W. Workshops						
	Architect						
Chingleput	Sriperbur				255	255	
	Mount			1286			1286
	Chenglepat				420	420	
North Arcot	Wallaja						
	Chittur						
	Vellur						
	Polur						
South Arcot	Cudalur				3846	3846	
	Tindivanam						
	Virudachalam						
Salem	Salem						
	Ulsur						
	Vaniambadi						
Bangalore	Bangalore			620			620
	Carried over	3932	84270	86556			2646

Districts	Ranges	As at present Imperial Irrigation	As at present Imperial Non Irrigation	As at present Provincial	As proposed Imperial Irrigation	As proposed Imperial Non Irrigation	As proposed Provincial
	Brought over	3932	84270	86556			2646
Tanjore	Tanjore						
	Mayavaram		255	255			
	Negapatam						
	Mannargudi		2860	2860			
Trichinopoli	Trichinopoli						
	Lunsur						
	Udiarpaliam						
Coimbatur	Coimbatur						
	Caligal						
	Carder						
	Irrigation						
Nilgiri	Nilgiri						
Malabar	Cannanur						
	Calicut						
	Palghat						
	Cochin & Travancore Canal						
	North Wainad						
	South Wainad						
South Canara	Mangalur						
	Puttalur						
Madura	Madura		78	78			
	Nindigal		60	60			1
Tinnevelly	Northern Range						
	Tinnevelli						
	Sherrmadevi						
	Total	3932	87523	88809			2646

Office of Conts. J.
P.W. Accts
Fort St. George 26th Nov. 1875

Signed J. Conway-Gordon
Controller of Public Works Accounts

(True Copy)

Charles A. Hayllar Supdt
Correspondence Branch

GD

[Cr. Wks. Form No. 2.]

No. 71 A

FROM

THE CONTROLLER,
PUBLIC WORKS ACCOUNTS,

To

The Accountant General
Public Works Department

FORT SAINT GEORGE, 25th October 1875.

Sir,

In accordance with your letter No. 384 G dated 22nd March 1872, the whole of the Ranges in this Presidency were divided off as Imperial, Irrigation or Provincial. This arbitrary classification, following the instructions contained in para 3 of your letter, was based on expenditure; a Range in which the bulk of expenditure was Provincial being treated as a Provincial Range and so on.-

2. At the present time, not only in the several Ranges has the proportion of expenditure from the several funds considerably altered from what it was at the time the division was made, thus suggesting a new classification of a basis of division by expenditure is to be adhered to, but a classification by Ranges in this Presidency is found

Dr. 7580/2/76

found in practice to be exceedingly inconvenient; the Ranges in this Presidency answering in many respects more to the subdivisional charge than to the Executive Division of Northern India.-

3. To avoid this inconvenience and to smooth the way for any alterations in the system of account that may be required to be carried through by Districts as also to avoid the inconvenience of frequently changing Ranges from one class to another owing to the alterations in the proportion of the expenditure from the several funds, I propose for your approval a new classification by Districts instead of Ranges.- In this classification the Delta Districts which at present do and which always must contain all the principal irrigation works are classified as Irrigation; and the remaining Districts mostly as Provincial.-

4 Appendix A shows the present and proposed classification. In drawing up this classification care has been taken to prevent any disturbance of the Budget by fluctuations in the amounts of the Stocks balances. Appendix B based upon the accounts for August last shows the net transfers of Stock required; the differences are too immaterial to require notice.- In fact leaving out of consideration the Dimagendiam Range (late Central Provinces, Godavari 1st Barrier Division) the changes caused by the transfer will be as follows.-

	Increase	Decrease
Irrigation	10,822	
Imperial		3932
Provincial		6890

and it is certain that under recent orders of the Madras Government almost all the Stock of the Dimagendiam Range will be very shortly sold or transferred.-

5. As several important suggested improvements in the working of this office hinge on the introduction of this classification, I should be much obliged by your communicating your decision by telegraph.-

Have &c
(Sd) L. Conway Gordon
Controller of P.W. Accounts.

(True Copy)

Charles A. Heycock
Superintt. Correspondence Branch.
Office of the Controller of P.W. Accts.

Appendix B

483

Statement showing the transfer of Stock which will be caused by the proposed reclassification of Ranges

District	Range	At present			As proposed		
		Imperial			Imperial		
		Irrigation	Non-Irrigation	Commercial	Irrigation	Non-Irrigation	Commercial
Godavari	Ellur			1762	1762		
Bellari	Bellari		2026				2026
Chengalpat	Sirulur			255	255		
	Mamti		1286		1286		
	Chengalpat			420	420		
South Arcot	Cadalur		3846	3846			
Bangalore	Bangalore		620				620
Tanjore	Mayavaram			255	255		
	Mannargudi			2860	2860		
Madura	Madura			78	78		
	Dindigul			60	60		
			3932	9536	10822		2646
Add Dumagudiam Range which will shortly vanish				77987	77987		
			3932	87523	88809		2646

(True Copy)

For Sain George
October 1875

Charles A Kerr Lieut
Supt. Govt Cotton Investigations
Officiating Controller of Stores

Sig'd L. Conway Gordon
Controller of Pr Accounts

GDL

From

The Accountant General
Public Works Department
Calcutta

To

The Controller of Public Works Accounts
Fort St. George.

Dated 17th November 1875.

Your No. 71 excepting damaged in Stock which must remain provincial proposals sanctioned if Madras Government approve, and if Grant can cover Stock increase).-

(True Copy)

Charles A Stafford Supdt.

Correspondence Branch.

[Cr. Wks. Form No. 2.]

No. 152. W.

From

THE CONTROLLER,
PUBLIC WORKS ACCOUNTS,

To The Secretary to Government,
Public W. Department.

Fort Saint George, 25th November 1875.

Sir

Enclosures 2

I have the honor to forward
you copies of correspondence —
Controller's No. 71 A. — Accountant General's telegram. — with the Account-
ant General, Public Works De-
-partment, relative to a propose d
alteration of the existing classifi-
cation of the Public Works Ranges
in this Presidency under the
several Heads of Service, Irrigation,
Imperial, or Provincial, and with
reference thereto to ask you to be
good enough to submit the pro-
-posal for the favorable consider-
ation of Government, with a
view, should there appear to be
no objection from an Engineering
or Administrative point of view,

to

6 the revised classification being introduced, subject to the condition imposed by the Accountant General with regard to the Stock of the Divisional Range.

2. I may at once observe that this arbitrary and to some extent fictitious classification is almost entirely a question of convenience in accounts - but inasmuch as the classification of the Stock balances follows that of the Ranges, the modification now proposed will cause some trifling fluctuations in the aggregate Stock balances under each head of Service, and to this extent the proposal will affect the Budget grants under these heads.

3. It is of course difficult to say what the fluctuations of Stock under each head of Service may eventually appear at the end of the official year and consequently how the proposed transfer of Stock balances may in the end affect the aggregate of the Budget expenditure. The fluctuation in the Stock balances, which would be caused by the proposed arrangements (as based on the accounts for August) are shown in para 4 of my letter No 71 A to the Accountant General and as the Stock balances vary only slightly from month to month, this may be taken as a fair average statement of the fluctuation that would be caused by the proposal being accepted. The amounts, on the whole, are small, and there would probably be no difficulty in meeting them.

I have the honor to be
Sir
Your most Obed Servant

Conway-Gordon
Controller of P.W. Accounts

Cir: Memo: dy 661 of 5th Inst. pp.

- 14: May - - 405-407.
- 20: Augt 1875 - 338-339.
- 13: Septr - - 314-315

- 30th April - - 650-655

Cy 925- Memo pp 2 dy 571-572

P. W. 1875 Dept
No 580.

From

The Controller of
P.W. accounts

To

The Secretary to Government
P.W. Department

No 152. W.

Dated 25 November 1875.
Despatched - 26-11-75
Received 27/11

E. 2

Requesting to
submit for the favorable
consideration of Govt.
the proposal to alter
the existing classification
of the Districts in the
Presidency under the
several heads of Imperial
Irrigation, Imperial or
Provincial -

Cir: 15-25

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Read the following :—

From

The Contr. of P. W. Accounts } (No. 152 W. dy 25th Nov. 1875)

The Government were casually informed by the Controller's letter No. 65 of 5th April 1872, recorded with G.O. No. 1310 of 14th May 1872 that by order of the Accountant General of the Public Works Dept. the Ranges of the Madras Presidency were classed for convenience of account as Imperial, Irrigation, or

Provincial

Provincial, according as the bulk of the expenditure came under either of those heads. The Controller now reports that he has obtained by Telegram the sanction of the Accountant General, subject to approval of the Madras Government, to a re-classification by Districts instead of by Ranges.

2. It does not appear why the approval of Government is required on this occasion more than on the former. But apart from this consideration the new Classification does not appear to Govt. to be in any wise less arbitrary and fictitious in some particulars than that which it is desired to supersede. The Government cannot approve for instance of the Bellary, Mount, and Bangalore Ranges being transferred from the head of Imperial Navr Irrigation to that of Provincial; nor of the East Coast Canal Range, which is purely Provincial, being made an Irrigation Range. Nor do they understand the entire ignoring

egioning of the heading
Local in the Classifica-
tion, if their opinion
is to be asked on the
subject.

With these remarks
the question is left to be
dealt with (as before), as
one purely relating to
the convenience of the
Account Department.

Lyttl

I do not approve of the scheme of this draft which seems to me unnecessarily contentious and undignified, as representing the opinion of the Govt on a question submitted to them for their approval and consent. The proposed re-classification is avowedly arbitrary & upon the convenience of the accountable as was the former & with the Govt conceded - If the proposed re-classification impedes administration or is in any other way injurious this

to the Controller of Accts should be shewn in an official Memo: If not we should accept the re-classification in ordinary official language.

11 Dec 75. H Wells

Letter from the Controller
No 152 of 25th November.

Submitted for Orders.

The revised classifica-
tion does not appear to
the Secretary to be rea-
sonable. And he pro-
poses to re-classify by
Districts instead of by
single Rangers as proposed
by the organisation of the
P.W. Dept in Madras.
It is looked upon by the
Secretary, in fact, as
an insidious movement
concerted between the
Accountant General
and his Local representa-
tative to secure the way
for assimilating Govt or-
ganization to the Govt
of India system - In
this case have not to

wanting, the duty of the
discussion on the P.
W. Code, of the clause
of the Account Debt. to
make each distinct
an Executive charge,
and each existing
charge only a Sub-Di-
vision.

The Secretary drafted
in the measure, or the
clause, recommended
with a view to putting
a decided stop to mat-
ters which he does
not approve of, and
the object of which is
to declare all independ-
ently must independence
of the action in the part
of the Executive Govt -
Such Members of Council
as do not know what
they are voting to by

yielding no Pay and dis-
-ing Expenses on this
subject. It will result
in a decided clashing
of action in the Pub. Wks
and Pub. Debts respec-
tively, on the subject
of existing Loans and
encumbrances -

The Joint Secretary
was quite unaware
of the Classification of
Ranges when referred
to for explanation on
subject - but it was
only by insisting
there must be some
Official record of it,
that the Secretary
proceeded in finishing
the council notice of
the 14th May 1872 No. 1310.
The subject is now dead

Revised Draft

My opinion regarding
the tone of the draft &
the manner of dealing
with the question remains
not only unchanged but
confirmed by the views
of the Chief Engineer
It is quite preposterous
to use the terms "mandamus"
& "injunction" to the action
of the Govt of India &
which this Govt is

of the District
Engineer having

Govt of India
to respectfully ob-
served, but of the
Govt & Authorities
who are acting in
this matter "Jurisdic-
tion" —

before Govt. in Executive
Council. Secretary elevates
offhand style, simply
to elicit Govt. sanction
of a great step meant
to secure the way to
several others. What
more disrespectful or
unconstitutional than the
proposal to transfer Barrage
Scheme from "Provincial"
to "Military" & "Provincial"
but it is communicated with
the best Govt. to sanction
refusing to allow the
District Engrs Office at
Bangalore to be changed
to "Military", & deleting
it to "Provincial" —

In the above circumstances
the Secretary respectfully
defends to the merits
of his and recommends
his Original Draft —

before Govt. in Captain Conway's Secretary's office, should always be kept in subordinate. If the Chief Engineer is unable to carry out my instructions the papers had better go in circulation —

[signature]

[illegible] Secretary copy of the Despatch to the next Superior and Inferior to the original Draft — [illegible]

Revised Draft

The proposal to re-classify the Pub. Works expenditure by Districts instead of by Ranges appears to the Most Noble the Governor in Council to be objectionable, both from an Engineering and Administrative point of view, in a Presidency where the Range is the Executive Unit of charge & of accounts, the District Engineer having

no Executive change — and keeping us no: : counts.

Apart from which general considerations, he cannot agr: : prove of the proposal to Transfer Brom: : ghurst which is both a Borough & a District in one; in which little but "Milly & Pemalatures has to be accomm: : ed for, from its present classi: : fication as "Imperial, rem: Migration" to that of "Imperial" - Read

P93 54

There are other similar anom: : malies in the proposal; which cannot there: : fore be ab: : proved —

Lyn.W.

Memorandum

It being necessary in order to admit of some of the Superintending Engineers' Circles with the Divisions included in them being constituted to show what number of Divisions will be recommended to Government for adoption, and it being very desirable in order to strengthen the Executive Establishment of the Department that these arrangements should be carried out so far as may be practicable in anticipation of the complete reorganization of the Department, the following scheme of Circles and Divisions has been drawn up to enable the cost and distribution of Office establishments to be determined.

The number and extent of the Circles agree with the arrangements accepted by Government at Ootacamund in June 1870.

	Districts	Divisions	No.	Total Divisions
1st Circle.	Ganjam	Ganjam	1	1
	Vizagapatam	Vizagapatam	2	1
	Godavery	Eastern and Central Deltas	3	3
		Western Delta	4	
		Rajahmundry	5	
		Total 1st Circle		5
2nd Circle.	Kistna	Eastern Delta	6	3
		Western "	7	
		Guntur	8	
	Nellore	Ongole	9	2
		Nellore	10	
		Total 2nd Circle		5
3rd Circle	Bellary	Bellary	11	2
		Anantapore	12	1
	Kurnool	Kurnool	13	1
	Cuddapah	Cuddapah	14	2
		Mundempully	15	
		Total 3rd Circle		5
4th Circle	Presidency	Presidency	16	1
	Chingleput	Chingleput	17	1
	North Arcot	Vellore	18	2
		Chittoor	19	1
	Salem	Salem	20	1
	Bangalore	Bangalore	21	1
		Civil Architect	22	1
		Total 4th Circle		4
5th Circle	South Arcot	Cuddalore	23	2
		Viridachellum	24	1
	Trichinopoly	Trichinopoly	25	1
	Tanjore	Tanjore	26	2
		Negapatam	27	
		Total 5th Circle		5
6th Circle	Coimbatore	Erode	28	2
		Coimbatore	29	1
	Nilgheries	Ootacamund	30	1
	Malabar	Palghaut	31	2
		Calicut	32	1
	South Canara	Canara	33	1
		Total 6th Circle		6
7th Circle	Madura	Dindigul	34	2
		Madura	35	
	Tinnevelly	North	36	2
		South	37	
		Total 7th Circle		4

2. The number of Sub divisional Officers required is shown below as also the number of those sub divisions which should ordinarily be held by Assistant Engineers.

Districts	Divisions	Sub Divisions	Sub Div. Officers: Executive Engineers	Sub Div. Officers: Asst. Engineers	Sub Div. Officers: Supernumerary	Supernumerary Sub Div. Officers	
Ganjam	Ganjam 1	Russelkonda		1			
		Berhampore	1				
Vizagapatam	Vizagapatam 2	Vizianagram	1			1	
		Vizagapatam	1				
Godavery	Eastern & Central Deltas 3	Headworks and Workshops	1			1	
		Eastern Delta	1				
		Central	1			1	
	Western Deltas 4	Eastern	1			1	
		Western	1			1	
Kistna	Rajahmundry 5	East	1			1	
		West	—	—	1	—	
	Eastern Delta 6	Headworks and Workshops	1	1	—	—	
		Northern	1				
		Southern	1			1	
	Western Delta 7	Eastern	1			1	
		Western	1			1	
	Guntur 8	East	1			1	
		West		1			
Nellore	Ongole 9	Ongole			1		
		Cauvely	1			1	
	Nellore 10	Nellore		1			
		Gudur	1			1	
Bellary	Bellary 11	Kudlige			1		
		Bellary		1			
	Anantapore 12	Anantapore	1			1	No 2 Range
		Raidroog	1			1	No 1 & 4 do
		Penukonda		1			No 5 do
Kurnool	Kurnool 13	Kurnool			1		No 3 do
			1			1	No 6 do
		Nundial			1		Gazal Hota, Pattikonda Kurnool & Nundial Roads
		Cumbum		1			Koilkuntla, Nundial and Giddalur Taluqs
							Anantapur & Cumbum Taluqs
			16	7	5	15	

	Districts	Divisions	Sub Divisions	Assistant Engineer	Sub Engineer	Supervisor	Supervisor Draftsman	
				20	15	16	27	
Madura	Dendigul	34	Dendigul	1				
			Periaculum			1		
		Madura	35 Madura	1				
			Shivagunga		1			
Tinnivelly	Palamcotta		Palamcotta	1			1	
			Shermadevy			1		
	Coilpatty		Sherrillipuhur			1		
			Coilpatty		1			
				42	17	19	30	

Add N. Canal

2 / 21 + 30 = 51

Supply Engr — 8
Ea — 1
Asst — 41
Sub Engrs — 42
Supts — 12

	Districts	Divisions	Sub Divisions					
	Coldapah	Coldapah	18	Coldapah	1		1	Schandly, Coldapah and Pallampatt
				Tamalmadagum				Tamalmadagum Subdivision
				Budwail		1		Budwail Taluqs
2nd				Maddapully				Maddapully and Nellore
		Maddapully	19	Maddapully		1		Nyachetti & Coilpaud
				Nyachetti	1			
	Guntoor	Guntoor	16		1	1	1	Tenalee & Ponnary
	Chingleput	Chingleput	17	Northern	1		2	Sydapett Taluq
3d				Mount	1		1	Chingleput Conjeveram & Sundavanum Taluqs
				Chingleput	1			
							1	
	Nellore	Nellore	18	Nellore	1			
				Wallajo		1		
		Rhellarey		West	1			
				East		1		
4th	Salem	Salem	20	Coffeer	1			
				Tripatore		1		
							1	
		Bangalore				1		
		Cittledrug	21 22					
	Cuddalore	Cuddalore	23	Tittivanum		1		Tindivanum
				Cuddalore	1		1	Collapuram Cuddalore
		Verdachellum	24	Verdachellum		1		
				Chellumbrum	1			
	Trichinopoly	Trichinopoly	25	Trichinopoly	1		1	
				Northern		1	1	
	Tanjore	Tanjore	26	Tanjore	1	1	1	
6				Trangambar	1		1	
		Negapatam	27	Negapatam	1		1	
				Pattukotta	1		1	
	Combatore	Combatore	28	Combatore	1			
				Carore		1		
		Dindigul	29	Dhavanp	1			
7	Wolghnie	Wolghnie	30	Collegal		1		
	Malabar	Calicut	31	South Wynaad		1		
				Calicut	1			
				Palghaut		1		
		Cannanore	32	Cannanore	1			
	Canara	Canara	33	Wynaad		1		
				North	1	0	1	
				South	0	1	0	

Exhd.

Public Works Department
Organisation

In order to render fully available the services of the Chief Engineer and generally to obtain increased Supervision, the Government have agreed to separate the offices of Secretary and Chief Engineer - to diminish the number of ranges and to increase the number of supervising officers

It is proposed to reduce the ranges to about 35, distributed into 7 Circles of Supervision

With regard to the Establishment needed for the ranges or Executive divisions in charge of the consolidated ranges or divisions the Chief Engineer has submitted a scheme distributing the ranges into 3 classes and

giving Establishments cost
ing Rupees.

The Examiner points out
that each of these elapses
is similar to one of that found
necessary in Bombay & or
Bengal and suggests a scheme
of the Office Establishment
somewhat of a compromise
between the schemes of the
Chief Engineer and that
in force elsewhere, and
with regard to Account branch
basis his arrangement ge-
nerally on the assumption
that it is desirable that
Accountants in Madras
Presidency should be assimi
lated in respect to pay and
allowances with those in
other parts of India.
It appears to me that
this idea of uniformity
may be carried too far. That
if ordinary rates of pay of
living of house rent are
lower in Madras than else-
where the Government should
have the advantage in
their Scales of pay. It is
true that the Code prescribes
that Accountants above the
Grade are said to be trans-
ferrable, but I do not see in
that proviso any inducement
or obligation on Madras to
pay Extra for this purpose,
nor can I imagine such
was ever the intention and
the Examiner himself
even suggests for Madras
a special fifth class not
existing elsewhere for
purposes apparently to keep
down a Scale unduly high
because of the adoption
of other rates of pay & allow-
ances. Not again in con
nection with the Office
Establishment do I think

that because Bombay or any other Presidency can carry on the business of a pauper spending a certain sums per annum with a certain staff it follows as a matter of Course that a similar staff with suffice or perhaps be required for a pauper spending the same amount in the Madras Presidency. The area of the pauper, the nature of the works, their relative position - the means of communications - the number of departments to be communicated with, are all material points in determining the sufficiency or necessity of a greater or less Establishment - I am therefore averse to enunciating the principle of assimilating

the scale of pay & allowances to those drawn by Officers in Public Offices in any department which principle if adopted will in all probability react upon other departments & tend to raise the scale of allowances or create dissatisfaction in other branches -

In considering the scheme for office Establishment proposed I would therefore keep in mind the following general facts -

That the total average annual work or Expenditure in the Presidency will not be increased - therefore the Staff ~~& Establishment~~ needs no increase -

That 35 distinct offices being abolished - there will be 35 less accounts to be Examined in the Account branch - 35 fewer sets of books - 35 less managing or

1 Head Clerks required.
That there will be 35 pensn
Correspondents to be corr.
2 responded with by the Auditor
by other official Establishment or
by the Chief Office). 35
sets of books will be abolished
thus there will be less
clerkage).

In this Scheme for Con-
solidation I find 7 ranges
4 with pensions unaltered
in extent —
1 Bangalore
2 Salem
3. Presidency
4 Trivandrum
5 Nilgherries
6 Madura
7 Dindigul
which are 2 in
Mudimpilly 1
Permacondu
are only slightly changed
by annexing 1 Taluk to the
first and 2 Taluks to the second -
so that very little Audit work
will be thrown on these 2 -
I find however in the

Scheme proposed that the
4 pensns of the 7 first
named unchanged pay
with the increased pens

Rs. 1150
to Rs. 1421
Excep 271 × 12 = 3252 annually.

which the 2 latter pays
will be increased pens.

Rs. 197
to Rs. 432
Excep. 235 × 12 = 2820

Rs. 6072

I fail to perceive the necessity
for this increase

Testing the schemes in
the arrangements for the
amalgamated ranges
I find e.g. 2
Nellore ranges postponed
to be 2. 2d class. = 256 × 2 = 512
which are 6 stations. Cuddapah Rs. 111
N Nellore " 81
S Nellore " 111
E Nellore " 86

Rs. 394

difference = " 118
= Rupees 14.16 annually

being an Excess by proposed arrangement - Get the work of the 2 Consolidated ranges cannot be more than that now done in the 4 ranges -

The books to be Kept will be less -

The correspondence less - Only 2 office managers or Head Clerks needed instead of 4 -

Only 2 Officers to travel therefore fewer Lascars.

Cuddapah.

This Consolidated range proposed to have an establishment to Cost Rupees 256

will include the two
Cuddapah Rs 111
Sidout - 86

197

Difference being an excess 59 = Rs 705 annually

and it is proposed to have a staff of 6 Clerks & 5 Lascars against 5 & 6.

I do not follow the receipt of each Excess - In the latter case the books to be Kept are halved in number

Only one Officers diary to be Copied instead of two - only one set of pictures to be filled up instead of two - yet a Clerk is proposed to be added.

The basis of an Office Establishment must be the work to be done ie the average number of letters in & out - the numbers of entries in the several books - the number of periodical pictures to be filled up and entries in them - The average number of works in hand for plans Estimates & Measurements - the number of Departments to correspond with -

In Consolidations of ranges I fail to see how any more of these can be increased by consolidating 2 Offices into one -

The average number of letters will not be increased - a slight diminution should occur because there will be only one office Establishment to correspond about.

The number of books to be kept up will be halved although the entries will not be reduced in proportion.

The number of returns to be made up will be halved, but the entries in them is not reduced so much.

The average number of works for measurement calculation & plan drawing will be the same -

The number of departments to correspond with, the same -

It is probably not possible that the work of each range now consolidated can be accurately estimated except by

Examination on the spot, & I would therefore suggest that the establishment for the new ranges should be formed as regards the offices on the basis that where no change is made in the ranges no increase takes place in the number or pay of Clerks -

That where 2 ranges are amalgamated into one, the same establishment as now be allowed - That where 3 or more are amalgamated into one - a reduction of one Clerk should take place -

If this suggestion were adopted Superintending Engineers could speedily on their visits ascertain what further changes were needed -

The number of Lascars should be considered with reference to the camping duties of the Officers; but

I confess I do not understand why if 3 Lascars can pitch tents now 5 should be needed in future - Nor what additional duties there may be, needing an increased number of Lascars.

In the Account branch as I before observed I am averse to the principle of assimilating the pay & allowances throughout - For the Accountants in unchanged ranges, the pay which sufficed should still suffice - For Consolidated ranges the ~~increase~~ amount of the amounts ~~declared~~ may render necessary the selection of higher class men, but for similar duty no increase of pay appears necessary -

Appendix B.

Circle	District	Division	Area	Extent
First	Ganjam	1. Ganjam	4274	~~2 Ranges~~
	Vizagapatam	2. Vizagapatam	3003	3 —"—
	Godavery	3 Eastern Godavery	4323	~~3 Ranges~~ - All the District East of the Godavery.
		4 Western Godavery	3211	~~2 Ranges~~ - All the District West of the Godavery.
Total of First Circle			4811	
Second	Kistna	5. East Kistna	3030	~~2 Ranges~~ - All the District East of the Kistna.
		6. West Kistna	4753	~~4 Ranges~~ - All the District West of the Kistna.
	Nellore	7. North Nellore	5173	Northern Range, and Cumbum Range of Kurnool.
		8. South Nellore	4273	Central and Southern Ranges of Kurnool.
Total of Second Circle			17229	
Third	Kurnool	9 Kurnool	5380	The whole District except Cumbum Range.
	Cuddapah	10 Cuddapah	3916	The Cuddapah & Sidhout Ranges less Pooliendla Talook.
		11 Madenpilly	4134	Madenpilly Range and Pooliendla Talook.
	Bellary	12. Bellary	6701	Bellary and Gooty Ranges, less Raidroog & Anantapoor Talooks.
		13. Pennacunda	4489	Pennacunda Range with Raidroog and Anantapoor Talooks.
Total of Third Circle			24612	

Circle	District	Division	Area	Extent
Fourth	Bangalore	14. Bangalore	11	Bangalore Cantonment
	Salem	15. Salem	3166	Salem Range
		16. Tripatore	4438	Tripatore and Coffee Ranges.
	North East	17. Vellore	2585	Vellore & Polore Ranges with Gooty & Wallajah Talooks.
		18. Chittoor	4269	Chittoor and Wallajah Ranges with Gooty Attem and Wallajah Talooks
	Chingleput	19. Chingleput	2619	~~2 Ranges~~
	Madras	20. Presidency	27	Madras Town.
Total of Fourth Circle			17115	
Fifth	South East	21. Tinnevelly	2611	Tinnevelly Range with Wallajah Talook.
		22. Cuddalore	2525	Cuddalore & Virdachellum Ranges & Villapooram Talook.
		23. Porchmopoly	3584	~~2 Ranges~~
	Tanjore	24. Tanjore	2221	Tanjore and Mayaveram Talooks
		25. Negapatam	1518	Negapatam & Mayaveram Talooks
Total of Fifth Circle			12259	
Sixth	Coimbatore	26. Erode	2777	Erode and Irrigation Ranges
		27. Coimbatore	3494	Coimbatore and Carroor Ranges
	Nielgherries	28. Nielgherries	1000	Nielgherry Hills.
	Malabar	29. Palghaut	3454	Ernad & Palghaut Ranges
		30. Cabinet	2947½	Cannanore, Cabinet & Coorumbranad Ranges.
	Canara	31. Mangalore	4393	~~2 Ranges~~.
Total of Sixth Circle			17065½	
Seventh	Madura	32. Madura	4886½	Madura Range
		33. Dindigul	3903½	Dindigul Range
	Tinnevelly	34. Tinnevelly	3065	Tinnevelly & Shermadevi Ranges & Ettapooram Talook.
		35. Northern	2752	Northern Range with Ettapooram Talook
Total of Seventh Circle			13606½	

Superintending Engineers Establishment.

Manager	Rs. 100
Head Clerk	80
Draftsman	60
Do	45 +
Record Keeper	40 + 10
Writer	30 —
Do	25 +
1 Peon & 5 Lascars	43 — 20
	Rs 423

For 7 Superintending Engrs. at Rs 423 = 2961 × 12 = 35,53

Note - Supt Engrs from 1863 to 1874, have Office contingt Rs 672 per annum —
4 × 42 — 752 —

Appendix C.

1st Class Division Offices

		Establishment		
1	East Godavery	Head Clerk	Rs	70
2	West do	Draftsman		50
3	East Kistna	do		40
4	West do	do		40
5	Chingleput	Writer		30
6	Tanjore	do		25
7	Negapatam	do		20
8	Bellary	5 Lascars		36
			Rs:	311

For 8 1st Class Division Offices at 311 = 2488 x 12 = 29856

2d Class Division Offices

		Establishment		
1	Ganjam	Head Clerk		60
2	Vizagapatam	Draftsman		45
3	North Nellore	do		40
4	South do	Writer		30
5	Kurnool	do		25
6	Cuddapah	do		20
7	Trichinopoly	5 Lascars		36
8	Calicut			256
9	Canjanore			
10	South Tinnevelly			

For 10 2d Class Division Offices at 256 = 2560 x 12 = 30720

3d Class Division Offices.

		Establishment		
1	Maddenpilly	Head Clerk		50
2	Pennacondah	Draftsman		40
3	Salem	do		30
4	Tripatore	Writer		25
5	Vellore	do		20
6	Chittoor	do		15
7	Tinderanum	5 Lascars		36
8	Cuddalore			216
9	Errode			
10	Coimbatore	Former Range Office		86
11	Palghaut			56
12	Madura			
13	Dindigul			
14	North Tinnevelly	District Engineers		

For 14 3d Class Division Offices at 216 = 3024 x 12 = 36288

Total 76,105.228

Appendix C continued

Name of Division	Assistant Engineers	Sub Engineers	Supervisors	Total of per District
1 Ganjam	1		2	4
2 Vizagapatam	1		2	4
3 East Godavery	2	1	2	6
4 West do	2	1	2	6
5 East Kistna	2	1	1	5
6 West do	2	1	1	5
7 North Nellore	2		1	4
8 South do	2		1	4
9 Kurnool	1			2
10 Cuddapah	1	1	1	4
11 Maddenpilly	1		1	3
12 Bellary	1	2	1	5
13 Pennacondah	1		1	3
14 Bangalore	1			2
15 Salem	1		1	3
16 Tripatore	1		1	3
17 Vellore	1		1	3
18 Chittoor	1		1	3
19 Chengleput	1	1	4	7
20 Presidency	1	1	1	4
21 Tinderanum	1	1		3
22 Cuddalore	1	1		3
23 Errode	1		1	3
24 Coimbatore	1		1	3
25 Neilgherries	1			2
26 Palghaut	1		1	3
27 Calicut	1		2	4
28 Canara	1	1	1	4
29 Trichinopoly	1	1	1	4
30 Tanjore	2		3	6
31 Negapatam	1	1	2	5
32 Madura	1		1	3
33 Dindigul	1		1	3
34 South Tinnevelly	1		2	4
35 North do	1		1	3
	42	14	42	98

Assistant Engineer's Establishment.

1 Writer — 30
1 do. — 12
4 Lascars — 28
70

For 42 Assistant Engineers at Rs 70 = 2940 × 12 = 35,280

Upper Subordinates Establishment.

1 Tindal — 25
3 Lascars — 21
46

For 56 Upper Subordinates at Rs 46 = 2576 × 12 = 30,912

— Sermoor Scale. —

No.	Designation	Amount of salaries
	Superintending Engineer's Estab^t.	
1	Manager	200
1	Head Clerk & Examiner	70
1	Accountant	50
1	Writer	40
2	Cuppjeto (30 and 25)	55
1	Record Keeper	30
1	Draftsman	60
2	Estimate makers (60 and 50)	110
1	Moochee	8
8	Lascars (two at 7 and six at 6)	50
1	Sweeper	5
	Total for one	678.
	Total for seven	4746
	Supp^g. Engr^s. 4^th Division	
1	Manager	200
1	Head Clerk and Examiner	70
4	Clerks (40, 30, 25 and 20)	115
1	Accountant	50
1	Record Keeper	30
1	Draftsman	60
4	Estimate makers (60, 50, 30 and 25)	165
1	Moochee	8
2	Peons	14
6	Lascars	36
1	Sweeper	5
	Total	753.
	Total for eight	5499

Service as proposed here organization

It is proposed that there should
(below rates)

1 Chief Engineer — 1st Class.
1 Do — 2d — (Brig.)

But that the duties of Secy to
Govt. should be performed by a
Supt Engineer of the (3d) Grade —
In addition to whom there should be
7 Supt Engineers of Circles —
The number of Executive Engi-
neers to be 36 no at present
including the Corps Inspector & Secy
Secy and the number of
Executive Divisions to be the
same — No change to be made
in the number of Asst. Engrs
or of Upper Subordinates — Two
Asst. Engrs 1st Grade to be attach-
to the Chief Engineers — The
financial effect of the above
arrangements will be an in-
crease of

1 Supt Engr 1st Gr. at £1,600
1 Do 2d — — 1350
1 Do 3d — — 1100 Increase
12 × £1 4050 = £18600 —

Office Establishments.

The Chief Engineers, their Asst.
and the Secretary to have con-
ing them the Secretariat &
Irrigation Branch, and portion
of the Lithographic Establishment

No change of Office Establishment is made in the Presidency, Sanitation or Civil Engineers. The total changes (~~reducing the Establishments which remain as before~~) are Rs 1,72,420, as against Rs 1,22,802, showing an excess of Rs 48618 — A result saving of Rs 1,861,0 accrues from dispensing with the services of 2 Mechanical Surveyors who have not been sanctioned for some years — Rs 4000 at least are saved in Upward Allowances by the Retrenchment of the Executive charges of that Province — And Rs 1938 at present charged against construction cannot be dispensed with and is shown as a saving —

The balance of increased charges against savings above recorded amounts to Rs 26225½ in excess of the current year's Budget, and that sum may be easily made good from the savings in the Salaries of Divisional Establishments to the present requirements

Subject?

8

according to Major Scott's proposals put into circulation, but upon which no Orders have been passed — Appendix A gives the details of the distribution, Major Scott's proposals involved a transfer of Rs 5400 of the present charge for the Lithographic Establishment to the Revenue Survey Dept. and a consequent Saving of Rs 5400 in the Pub. Wks Dept of

Appendix B gives the details of the Superintending Establishments; the latter amount of which shows an increase of Rs 35532 over the present charge of Rs 47736 as the proposals of Major Scott involve a transfer of Rs 83268 for Divisional Establishments under District Engineers Superintendence —

Appendix C shows the classification of the ~~the~~ 32 ~~Districts~~ Executive Divisions into 3 classes, with the details of Establishments for each, since the distribution of Asst. Engineers, Sub-Engineers, and Supervisors with details of these Establishments

₹, 52380, as their numbers will be reduced one half. It is proposed also that Sub Overseers be not allowed Writers; and that Overseers' Writers shall be discontinued as they travel only over one Taluk - It will not be possible however to work the Establishments as proposed to be reorganized unless Rs 21¾ Lakhs -

GMW
5.7.

Rec'd 10 Aug

[Cr. Wks. Form No. 111.]

GOVT. OF MADRAS. } 1876. { P.W. DEPT.

CONTROLLER, P. W. ACCOUNTS.

Madras, July 12th 1876.

OFFICE NOTE.

To

The Hon'ble R. S. Ellis. C.S.
Secy. to Govt.

KEEP-WITH.

Genl. No. dated 187 .

On the Chief Engineer's proposals as regards the number & extent of the new Divisions and Circles, I probably am not called upon to express an opinion - But I may say that the number of Executive Divisions appears suitable, while that of the Circles of Superintendence appears larger than is absolutely necessary -

2. But as regards the

Establishment proposed for three Divisions or Circles, I observe that the scheme involves increased numbers with a consequent increase of expenditure, and I may at once say that this alone without going into detail appears to me sufficient to condemn the proposals as undesirable under present circumstances.

3. In the first place, I may point out that to reorganize existing Establishments is, with slight restrictions, within the power of this Govt; but that a change of Establishts involving increased expenditure cannot be carried out by this Govt without the previous sanction of the Govt of India.

4. The Chief Engineer not only proposes to rearrange present Establishts, but to increase the number of Officers of the rank of Superintending Engrs from 5 to 8 at a cost of Rs48,600, doubtless forgetting that this proposal, by entailing a reference to the Govt of India, will probably delay for a considerable time the ultimate solution of the question now before Govt.

5. That question, as I understand it, is how to reorganize the present Establishts so as to secure better administration at Head Quarters, better supervision outside &

most Competent when in
charge of the Executive units;
in short to apply the means
at our disposal in the most
Effective way, or still better
if possible by introducing
a simpler organization, more
personal responsibility, and
a well-defined division of
labor to secure with an
actual reduction of our
existing means results as
good as, if not superior to,
those already attained -

6. The Chief Engr's proposal
to increase the number of
Officers in the rank of Supg
Engineer will certainly not
increase the Efficiency of the

For Railways & other Public Depts
first organized - 1854

of the Dept - There the
Senior Superintending Engineers
are, I presume, to be supplied
in the ordinary way - Three
of the present Executive Engineers
will be promoted to the rank of
Supg. Engineer, and it will
follow that three of the present
Assts Engineers will be promoted
to the rank of Executive Engineer -
These promotions made, Govt
will have merely the means
when to carry out their work,
the rank and pay of six of
the present Officers will be
increased at the Expense of
Provincial Funds, but there
will be no increase in the
Efficiency even of these Six
Officers - As a whole, there
will not even be an increase

as his number of P. W. Officers.

At present there are Several Supernumeraries, and positively the only return I can see that Govt would derive from this proposed additional Expenditure of Rs 48.600 would be that certain Supernumerary 2nd Grade Assistant Engineers now at the head of the list would be absorbed in the new appointments -

7. Not only would this proposal fail in improving matters, but it would, if admitted, very Seriously tie the hands of Govt when they came to deal with the personal side of the question - The proposal is based on a presumed association of the two meanings of the word 'Superintending' Engineer, i.e the rank with the corresponding pay, and the duties of the Sup.g. Eng.r as a Supervising Officer - It presumes in fact that the duties of the Supervising Officer are in all cases to be Carried out by an Officer of the rank of Sup.g Engineer - The proposal has no meaning (unless it is assumed that the Seven Superintending Engineers are to be the Seven Supervising Officers, or in other words that the present five Sup.g Engineers Supplemented by two others are to be the Supervising Officers of the future -

This was certainly not my intention - The Supervising Officers were to be specially chosen irrespective of the men who may now have the name of Superintending Engineer without the functions

8. The acceptance of such a proposal would, I think,

be fatal to the interests proposed; it would prevent Govt from selecting from amongst the Officers on the present Estt. those who physically and professionally are most competent to undertake the duties of a Supervising Officer—

Q. I am therefore strongly in favor of not increasing the Engineer Estt., and this I recommend not only as the best course to pursue, but also as the only practical course open to Govt— At the present time, when our Provincial Budget shows an amount of Rs 5,23,432 to be expended on Estt as compared with Rs 7,46,568 to be expended on works;— when the Supreme Govt have already reduced their Imperial Grants thus bringing an increased amount of Estt charges on Provincial Funds;— when Exchange is daily falling and every penny (about) of fall brings a loss of 2½ lacs of rupees on the Imperial Exchequer, thus clearly pointing to a probable further reduction of the Imperial Grants;— (and lastly) when the charge for P.W. Estt has actually just been reported by the Supreme Govt as "burdensome beyond measure", it would, I declare, be not only preposterous, it would almost be indecent to propose to the Supreme Govt

21. Competent Supervising Officers and some 76 to 79 Competent Executives –

11. At present, the Madras System is to employ when of the ranks of Superintending Engr., Executive Engr., and Asstt Engr. as Supervising Officers; and to employ when of the ranks of Executive Engineer, Asstt Engr. Sub Engineer, Inspectors & Overseers as Executive Officers – This System it is of course undesirable to change more than is absolutely required – The Engg Engrs of the least of the Exec Engrs can therefore continue to be employed as Supervising Officers, and the best of the Exec. Engineers with a few of the Senior Asstt Engrs can take charge of the Exec Divns

Within a few days of the Submission of this report that these very P.W. Establishments should be increased –

10. In this mind, I consequently assume that no increase will be made in the present Engineer Establt, and that Govt will choose from the present Establt the Seven best men for the Supervising Officers, and the 35 next best men for the Executive Divisions – To furnish 7 Competent Supervising Officers, 35 Executive Officers, a Secy & an Asstt Secy surely cannot be too severe a strain on an Establt which at the present time is supposed to include no less than

The remaining Assts can be employed as Personal Assts to the Chief Engineer, as Pers.l Assts to the Supg Engineers, and as Assts in charge of Sub-divisions -

12. To Exec. Engrs in charge of Circles, and to Assts Engineers in charge of divisions I should allow the regular Pay allowances prescribed by the P.W. Code - The expenditure on this account would be covered by the present charge allowances now drawn by Asst Engrs when in charge of Districts, and by Overseers when in charge of Ranges -

Upper Subordinate Establishment

13. For the same reasons

as I have before given in regard to the Engineer Establt, I agree with the Chief Engineer in considering it inadvisable to make any changes in the Upper Subordinate Establt

Lower Subordinate Establt

Pay &c.

14. As regards these two Establishments, the Chief Engr says absolutely nothing - This surprises me, for it is in this direction that I think economy can be best effected - It would be well for these Establts to be taken up, and definitely fixed for each division -

Office Establt

Chief Engr's Secretary

15 - On the arrangements

proposed for the Office of Chief Eng.r & Secy.r I can make no remark, for Appendix A referred to as containing these proposals is not amongst the papers furnished to me.—

Superintending Eng.r

16 The Overlooking India the most important Member of the Supg. Engineer's Office is his Personal Asstt.,— usually one of the young Asstt Engineers — With the Supg. Engineer away in Camp for weeks & months together, it is absolutely necessary to have attached to his Office Some one who can look after the Office hands, who can answer a routine letter without all the delay of sending it

out to the Supg. Eng.r Camp, who can direct the Office draughtsman, who can check Estimates, assist in criticising plans, write small précis, and see generally that the work is sent out to the Supg. Eng.r in such a form as will enable him finally to deal with it — The Supg. Eng.r wants in fact an Educated professional Asstt —

17. To attach a young Asstt Engineer to each of the Supg. Eng.rs Offices costs nothing. It is an excellent School for him to join on his first arrival in the Country, he gets acquainted with Office routine, & the duties being comparatively light he has an opportunity of

acquiring the vernacular languages - I would therefore strongly recommend that one of the young Assist^{ts} be attached to each Supg. Sup^{rs} Office, as is done universally elsewhere -

18. The office Establ^{t} proposed for the Supg. Engineers Office appears to be suitable - The clerks & draughtsmen should however be properly graded, and all peculiar designations, such as 'Manager', 'Record-keeper' 'Writer' &c should be dropped. Every man should be a 'clerk', and carry out whatever duties may be assigned to him -

19. Peons are Office Establ^{t}.

While Lascars proper are not - I think two or three Peons should be allowed to each Supg. Sup^{rs}, and the remaining 3 or 4 Lascars wd more properly be dealt with under Petty Establ^{t} - I may however here say that I think a great deal of money is expended on Lascars in this Presidency -

20. I should therefore propose the following Scale of Establ^{t} for the Supg. Sup^{rs} Office.

	Class.	Grade.	max^{m}	min^{m}
1. Clerk.	III.	1st	100	80.
1. D^{o}	III.	2nd	80.	60.
2 D^{o}	IV.	2nd	80	60
1. D^{o}	IV.	3rd	30	20.
Total Clerks			290	220
1. Draughtsman	I.	3rd	60.	50
	II.	1st	50.	40.
3. Peons.			22.	22.
			422	332.

or a total Expenditure of
Rs 377 per mensem -

21. The Office Establt proposed for the Divisional Office, compared with the Scale allowed in Bombay & Mysore, seems to be very high - Although the division is enlarged in area, the Office work will not be increased proportionally with the new organization will I presume be introduced a Code of Regulations, and a better System of finance, and account - The Code itself will place a limit on the sudden returns now required from the Dist. Offices and will substitute personal Supervision for many of the present forms

checks. A Considerable amount of the present Office work can be simplified by the use of printed forms, and by the Accounts Branch undertaking its fair share of the work - All things considered, I do not think the future work of the Divisional Office will be much heavier than it is at present -

22. The Office Establt of a 1st Class Bombay division, under the System to be adopted here, is as follows

2 Clerks @	50/-	Rs. 100
1. Do.	30/-	30.
2. Do.	25/-	50
3. Menials		20
Total		Rs 200

as Compared with Rs 311 proposed for the Divisional Office in Madras, and there can be

the question that the Cost of
Labor in Bombay is much
higher than it is here — The
Cost of the 3d Class Bombay Estt
is Rs 125 against Rs 216 here
as per Statement No 2

The Cost of the Engine
Divisions including Pelly
Estabt, varies from about Rs 227
to about Rs. 184 —

23. The present Cost of the Office
Estabt of the 1st 2nd & 3d Class
Divisions is respectively Rs 111,
Rs 86 and Rs 56 — The Chief
Engr proposes to increase the
Cost of these Estabts to Rs 311,
Rs 256, and Rs 216; and
proposals which almost treble
the cost of the 1st & 2nd Divns &
nearly quadruple the Cost of the
3d Class Divisions appear to

the Entrance.

24. I consider the following
Establishment will be ample:

1st Class Division

No.	Class.	Grade	Maxm	Minm
1.	Clerk	III.	3d	60	50
1.	Do	IV.	2d	40	30
2.	Do	"	3d	60.	40
1.	Draughtsman	II.	1st	50.	40
1.	Do	"	2nd	40.	30
2.	Peons			13.	13
			Total. Rs.	263	203
			Average		233.

2nd Class Division

1.	Clerk. IV.	1st	50.	40
1	" "	2d	40	30
1	" "	3d	30.	20
1	Apprentice.		20.	10
1.	Draughtsman II.	1st	50	40
2.	Peons.		13.	13
		Total. Rs.	203	153
		Average		178.

3rd Class Division.

Appn.	Grade.	Max^m.	Min^m.
1. Clerk.	II.	1st 50.	40
1. Do.		3rd 30.	20
2. Apprentices		40.	20.
1. Draughtsman	II.	2nd 40.	30
2. Peons		13.	13.
		Rs. 173.	123.

Averag^e. 148.

25 What is I propose an averag^e Establ^t. of Rs 233, Rs 178, and Rs 148 against the present Establ^t. of Rs 111, Rs 86, and Rs 56 for the three classes of Divisions - This appears to me more than is absolutely required -

26 For the Subdivisional Establishments for both Assist^t Engineers, Sub Engineers and Supervisors, the following is sufficient.

Appn.	Grade.	Max^m.	Min^m.
1. Clerk.	II.	3rd 30.	20
1. Peon		7.	7.
		Rs 37.	27.

Averag^e. Rs 32.

27. I am doubtful whether an Overseer requires any Establ^t. at all - I should certainly allow him nothing more than an apprentice clerk with an averag^e Salary of Rs 15 per mensem -

28. The effect of all these proposals on the Establ^t. Budget Estimate of the year 1876-77 is shown in the accompanying Statement, but many questions still remain which are not dealt with at all in the Ch. Engr^s Memo^m.

29. Briefly I should say

that a Saving of at least
a lac, or a lac and a half
might be made. The reductions
proposed by me in the letters that
have been Considered by no
means appear to me all that
could be carried out were more
Systems introduced into the
Dept, and I say this more
particularly with regard to my
own Branch. The simpler the
System, the cheaper I shall be
able to work.

30. In Conclusion I would
strongly recommend that any
reductions determined upon
be carried out by simply with
filling up vacancies as they
naturally occur. This will
avoid any hardships to the present
Staff, and enable us to get easily
through any slight confusion consequent
on the reorganization.

A

Districts	Executive Divisions	
Tanjore	Kumbakonam	
Tanjore	Trichinopoly	
Tanjore	Trichinopoly	
Tanjore	Trichinopoly

that a Saving of at least a lac, or a lac and a half might be made. The reductions proposed by us in the items that have been considered by us will not appear to us all that could be carried out. were more System introduced into the Dept, and I beg this more particularly with regard to my own Branch. The simpler the System, the cheaper I shall be able to work.

30. In conclusion I would strongly recommend that any Reductions determined upon be carried out by simply not filling up vacancies as they naturally occur. This will avoid any hardship to the present Staff, and enable us to get safely through any slight confusion consequent on the reorganization.

Lly. 13/7

A

P.W. Res. 18 Sept 1878 No 3574 W.

Districts	Executive Divisions	Sub-divisions	Talugs.	Pay. Establishment.				Fee. Superintendence	Extra allowance	Gross
				Gazetted	Rank & File	Superior Service	Inferior Service			
			Berhampore							
			Gomsoor	2			4			
Ganjam	Ganjam		Chicacole							
			Zemindaries							4274
			Cuttack							
			Innasiddy							
Vizagapatam	Vizagapatam		Zemindaries	3	—	1	3			
			Jeypore							
										507½
	Eastern Delta (Coast division)	Western Delta / Godavery Delta / Central Delta	Ramachundrapuram	3	1					437
			Amalapur	7						944½
										450
										416
			Innapore							366½
	Vizianagram (Chittagong)	Eastern	Bhimavaram	2						729
			Tanuku							1961
		Western	Ellore							
										1249½
			Upparpatnam							2058
			Rajahmundry	1	—	1				505
	Rajahmundry (Rajahmundry)		Peddapore							485½
			Zemindaries							4628
										677
			Bandar							389
	Eastern Delta (Bezwada)	Bezwada	Bezwada							533
			Kaikalur	2						1599
Kistna		Gudivada	Gudivada							622
			Zemindaries							694
			Repalle	7						
			Narsapatam	2						1808
			Guntur							
										1093
										557
										674
			Palnad							621
			Vinukonda							600
			Nuzvid	1	1					931
			Bellamkonda							4376
			Gundigamma							
			Zemindaries	15	2	3				

Northern (Rugby)	2 Subdiv	Rugby	695
		Southam	722
	Eastern	Rugby	595
	Western	Rugby	533
		Rugby	750
			4005
Southern (Kellow)		Kellow	626
		Burton	813
		Napton	541
		Oxhill	008
		Tysoe Rural	537
			3145
Bellary		Bellary	925
		Hospet	468
	2 Subdiv	Hospet Sandur	670
		Hospet	673
		Kudligi	530
		Harpanhalli	1165
		Harpanhalli	901
			4581
		Gooty	947
		Penukonda	578
		Penukonda	810
		Tadpatri	846
		Dharmavaram	839
			3920
		Dharmavaram	1098
		Penukonda	908
Southern (Tumakuru)		Hindupur	424
		Madakasira	457
			2887

Kurnool

Kurnool

Nundial

Shimoga Shimoga

Chikkaballapur Chikkaballapur (Mount).

Southern (Kellow)

Northern (Chitoor)

Southern (Cuddapah)

Bellary

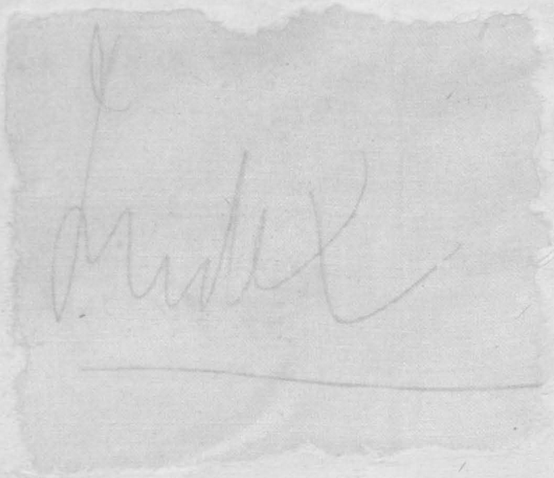
Northern (Trichinopoly)

Tanjore Tanjore

Northern (Pudukottai)

Southern

Northern



Officers	Now placed	Charges	Now filled
		Madura Division	Mr Harrington
		Madura Sub division	Mr Stubbings
		Shivagunga do	Mr Stent
		Ramnad Asst Engr	Asst Engr
		Palamcottah Divn	Mr Grant Supt
		Extra Supernumerary	Mr G Hooker
		Palamcottah Sub divn	Mr Bertie
		Shermadevy do	
		Tuticorin Divn	Mr Hughes
		Sternlipoothoor Sub division	Mr Watkins
		Tuticorin do	Mr McNair

Supervisors 1st grade

Conductor P. Schonrey	Cuddapah Sub division
" J. Nicholson	Cavoor Sub division
Mr J. W. Lackey	Extra. Mount Sub divn
Conductor W. C. Weeb	Tripatore Subdivision
Mr W. V. Baker	Extra. Jaggiroy Sub do
" R. S. Harris	Extra Office. Kackeru Delta Subdivn
Sub Conductor J. B. Sanderson	Extra. Chingleput Sub do
A Katiah	Godavery
Sub Conductor A. Milne	Sunderamukin Sub division
Mr B. Stephens	Extra Office. Ongole Sub do
Conductor R. Lennon	Virdachellum Sub do
Mr J. H. Stephens	Tyndur Sub division
C. Mahomed Kaseem Sahib	Trichinopoly
Mr S. Francis	Extra Bakalore Residency
Sub Condr J. Gomez	Extra Office. Kunedy Esq
Sub Condr J. Lalor	Extra Office. Bellary Sub do
Conductor D. Falvey	Extra. Immut Sub do
Mr J. D'Mello	

Supervisor 2nd grade

Mr T. Watkins	Sternlipoothoor Subdivision
" J. O'Leary	Bellary Extra
" J. D'Mello	Extra. Cuddapah Sub do
" F. A. Nicken	Peracaulum Subdivision
" H. C. Bertie	Shermadavy Subdivision
G. Venkata Row Canturlu	Kunedy
Mr C. Mahony	Extra. Salem Sub do
" W. H. Nicey	Callegal Sub division
Meershumseedeen Sahib	West Subdivision Guntur
Condr J. A. Power	Buckingham Canal. Extra
A. Veeraraganiah Canturlu	Extra. Cuddalore Sub do
Serjt C. Stewart	Chittoor. East Subdivision
Condr W. Jack	Pennaconda Sub division
Serjt R. W. Ward	Extra. Cuttiroffah Sub do
Mr H. Arbuthnot	Extra. Nagapatam Sub do
S. Mahadeva Iyer	Extra. Trangueper Sub do
Serjt J. W. Taylor	Cuddapah

Special

Buckingham Canal. Madras	Mr A Shanganeppy
Northern Sub dn	Supr C Mr W. Matthews
Southern —do—	Supr C Condr J Power

Officers	Now placed	Charges	Now filled
			338
Chief Engr 1st Class.			
Col R a Foord RE	Ch Engr & Secy to Govt		
Chief Engr 2d Class.			
Lt Col J. Mullins RE	Ch Engr for Irrign & St Secy to Govt		
Chief Engr 3d Class			
Lt Col Jas Sc Shaw Stewart RE	Consg Engr for Roy & St Secy to Govt		
Subg Engrs 1st Grade.			
Col W. F. Farewell	By Ch Engr & Under Secy to Govt		
Major Genl C. V. Wilkinson RE	Farewell		
Subg Engrs 2d grade			
Major J. Beatty RE	1st Circle		
Subg Engr 3d Grade			
Major J. O Hasted	2d Circle		
		1st Circle	Lt Col Beatty RE
		Ganjam Division	Mr J. Harris
		Russelendah Subdivision	Mr C H. T. Harper Asst Engr
		Berhampore do	Supt Cond Carnac
		Extra Supernr Remedy	(Venkatarow Pantulu)
		Do Asst Engr do	
		Vizagapatam Division	(Cal J. J. Fraser. RE.) Mr J. D Upjohn
		Vizianagram Subdivision	Mr de Morgan
		Vizagapatam do	(Sub Cond Sabon) Mr Asst Engr Carbon
			Extra
		Rachem and Central Deltas Dn	Mr Walch
		Head works & Workshops Subdiv	Mr Burkin
		Rachem Delta do	Mr Young
		Central do	Mr Ellis
		Extra Officer Workshops	Dy Asst Comy J. Joyce
		Do Supernr	Mr R. S. Harris
		Do do	(Serjt Chapman)
		Do do	(A. Kelsick)
		Western Delta Division	Lt Darwent RE
		Eastern Sub Division	Mr de Venishen
		Western do	Lt Langley
		Rajahmundry Division	Lt Rawlins
		East Sub Division	Subbiah Naidoo
		West do	Mr Taylor
		Kurnagudiem Special Dn	Mr Vanstavern
		Extra Supernr	Serjt Lyons
		2d Circle	Major Jo Hasted RE
		Eastern Delta Division	Mr Peters
		Head works & Workshops Subdiv	Lt Swart
		Northern Subdivision	Mr C M Smith
		Southern do	Mr Lambert

Officers — Now placed — Charges — Now filled

Ko Engrs 3d Grade Cadets

Mr F B Haines — Ganjam Division
Capt A Anderson RE — Coimbatore Division
Mr R F Forbes — Bijapur Division
R E Brownrigg — Canara Division
Lieut & Qr Comp H Bailey — Vellore Division
Capt S C Clarke RE — Chingleput Division
Capt F J Smith — Canara Division
Mr E A Blaquiere

Ko Engrs 4th Grade

Mr R J Lowry — Chittoor Division
Lt & Qr Mr Neill Campbell RE — Madura Salem Division
Mr G R Loggin — Nagapatam Division
Mr J Hannah — Western Delta Division
W R Harris
Capt R F Harris
Mr G B Wyborn
C J Peters
J W Watkins
F D Grant
F Rickwell
W Hughes
H Carmichael
J M Bell

Assistants 1st Grade

Mr J N Grainger — Extra Presidency Walajah
Lt & Asst Comp J Smithes — Anantapore Sub division
Lt F G Simcox — Kurnool Wallajah & Nellore
Lt & Qr Asst Comp G E Wyllie
Lt & C Rawlins
Lt A F Durnford
Lt J G Dobson
Mr J Grainger
Lt H B Henderson
Lt A V Baddely
Mr J Hunter

Bellary Division — Lt W B Leggatt
Kurdlegi Sub division — Mr Frankland (Sub Conr)
Extra Superior — Mr Supr O'Leary
Bellary Sub division — Lt Jackson

Anantapore Division — Mr P O'Halligan (Ex Asst)
Anantapore Sub division — Lt Brother
Extra Superior — Syed Ghuny Sahib
Raidroog Sub division — Cond Jack
Pennacondah do

4th Circle

Presidency Division — Col H Prendergast
Extra Asst Engr — Major Rob Thompson
do Sub Engr — Asst Engr Lavoute
do Superior — Sub Engr Mr Jas Pearson
do Workshops — Cond Quinn Supr
do do — Mr Grainger
Chingleput Division — Mr Francis
Northern Sub Div — Mr R F Donaghue
Mount do — Lt Baldwin RE
Extra Superior — Mr Lackey Supr
do do — Cond Talfey do
Chingleput Sub division — Mr J Vincent
Extra Superior — Sub Cond Sanderson Supr

Vellore Division — Capt S C Clarke RE
Vellore Sub Div — Lt Daniell RE
Wallajah do — Parthasarthy Ayengar

Chittoor Division — Mr J Lowry
West Sub division — Ruthnasabapathy Pillay
East do — Serjt Stewart

Bangalore Division — Col J J Moberly RE
Extra Superior — Sub Conductor Widdicombe

Civil Architect — Mr Chisholm

Officers	How placed	Charges	How filled
Exc. Superintendents 1st grade.			
Col. T.P. Peabody R.E.	Bangalore Division		
Capt. J. F. Fischer R.E.	Vizagapatam. 2d Circle		
Capt. H.L. Prendergast R.E.	Cuddapah Division (Supt)		
Capt. P.S. Peabody R.E.			
Capt. J. Goddard R.E.			
Lieut. C.J. Smith R.E.			
Capt. A. Del. Smith R.E.			
Mr R.T. Chamberlain	Civil Architect		
Capt. J.A. Hunter R.E.	Nellore Division		
Mr W.L. Nagington	Madura Division 3d Circle		
J.W. Rundall			
A.C. Crawford			
Major H.R. Wood R.E.	5th Circle		
Major H. Smalley R.E.			
Major F. Montgomerie R.E.			
Major H.W. Wood R.E.	7th Circle		
Major Burton			
Exc. Supts 2d grade			
Major H. Fr. Gilbert R.E.	Trichinopoly Division		
Mr W.B. Leggatt	Bellary Division		
Major J. Pennycuick R.E.	Salem Division		
Mr C. Spurstowe	Damagadum 6th		
Major Rose Thompson R.E.	Presidency Division		
Major J.A.L. Morant R.E.	Sulphetty Division		
Capt. J.H. Law	Kindigal Division		
Major J.W. Kindle			
Mr G.T. Walch	Eastern & Central Delta Godavery		
Capt. R.B. Kennedy	Cyliant Division		
Capt. R.K.C. Krackenan	Tanjore Division		
Exc. Supts 3d Grade			
Mr P. O'Rahilan	Anantapore Division		
C.D. Paynter	Cuddalore Division		
W.A. Goodchap			
J. O'Shaughnessy	Special Buckingham Canal		

Charges	How filled
Western Delta Division	Mr Harris. Lt Mc Neill Campbell
Eastern Sub division	Lt Baddeley
Western —do—	~~Do. Carlies~~ Mr Asst Supt Paul
Guntur Division	Mr Brickwell.
East Sub division	Sambria Setti
West —do—	Meerahmiahudeen Sait.
Nellore Division	Major Hunter R.E.
Nellore Sub division	Lt. Henderson
Gudur —do—	Mr J.H. Stephens
Extra ~~Supervision~~	Sub Cond Labor
Ongole Division	Mr R.R. Hanson
Ongole Sub Dn	(Mr Johnston) Dy Asst Comy: Plummer.
Extra ~~Officer~~ Supervision	Mr B. Stephens.
Cavali Sub division	Mr Atkinson
3d Circle	
Cuddapah Division	Mr J.W. Rundall (Mr J.H. Sage Assisting)
Cuddapah Sub div'n	Cal R.T. Broberly (Mr Lyon acting)
Extra ~~Officer~~ Supervision	Cond Schoury (Chinatumbee Pillay)
Shavr Sub division	~~Mr Salsbury Carpey~~ Chinatumbey Pillay
Madrapully Div'n	Mr G.B. Leggatt (Mr Trail a
Madrapully Sub div'n	Rajavachariar
Raychoti —do—	Mr Traill
Kurnool Div'n	Mr J.M. Bell.
Kurnool Sub div'n	Mr J.C. Johnston
Nandial —do—	Mr H.W. Bond
Cumbum —do—	Mr G. Vardon Serjt Taylor
Extra ~~Officer~~ Supervision	~~Supervision~~ (Serjt Taylor

Officers	Now placed	Charges	Now filled
Ass Engrs 3d Grade Contd			
Mr T. B. Harris	Ganjam Division	Bellary Division	Mr W B Leyatt 53d &
Capt A. Anstey RE	Cuddapah Division	Kurdlegi Sub division	Mr Frankland (Sub Engr)
Mr R. F. Parker	Bezwada Division	Extra ~~Officer~~ Superior	~~Superior~~ Mr Supr & Lear
" R. T. Buchanan	Trunderang Division	Bellary Subdivision	Lt Jackson
Lieut & Q. Comp H. Bailey	Cannanore Division		
Capt S. C. Clarke RE	Vellore Division	Anantapore Division	Mr P. O'Mahigan (Ex Pay
Capt A. F. Smith	Chingleput Division	Anantapore Sub division	Lt Brother
Mr E. N. Hughes	Canara Division	Extra ~~Officer~~ Superior	~~Superior~~ C Mr Supr D
		Raidroog Subdivision	Syed Yusuf Sahib
Ass Engrs 4th Grade		Penneachedah —do—	Cond Jack
Mr R. J. Lowry	Chittoor Division	4th Circle	Col H Prendergast
Lt. & Qr. Mr Campbell RE	Kistna Division	Presidency Division	Majr Rob Thompson
Mr J. Saunders	Madanapally Division	Extra ~~Officer Asst Engr~~	Asst Engr C Yarrow
" W. R. Harris	Nizampatam Division	Do Sub Engr	Sub Engr C Mr Sen Pers
Capt R. T. Harris	Western Delta Division	Do Superior	Cond Quinn - Supr
Mr G. B. Hyton		Do. Workshops	Mr Evances
" C. J. Peters	Eastern Delta Division - Kistna		Mr Francis
" Jas Martin	Cuddapah —do— Sept 1st	Chingleput Divn	Capt A. J. Smith RE —
" F. D. Grant	Palaveddah Division	Northern Sub Divn	Mr R. T. Donaghue —
" F. Brodhurst	Ipnutur Division	Mount —do—	Lt Baldwin RE —
" W. Hughes	Cuddapah Division	Extra ~~Superior~~ ~~Officer~~	Mr Lackeys Supt
" H. Lawrence	Vidiachellurgo Division	do. —do—	Cond Talboy —do—
" Jas Bell	Kurnool Division	Chingleput Sub division	Mr J Vincent
		Extra ~~Superior~~	Sub Cond Saunderson - Supr
Asst Engrs 1st Grade	Walk Engrs	Vellore Division	Capt A. J. Clarke RE —
Mr J. R. Granger	Extra - Presidency	Vellore Sub Dn	Lt Hamilton RE
Lt & Asst Comp F. Smithies	Anantapore Sub division	Wallajah —do—	Parthasarthy Iyengar
Lt. R. G. Smart	Kurnool Walks & Workshops - Kistna Sub		
Lt & Q. Asst Comp G. E. Wiffin		Chittoor Division	Mr J Lowry
Lt C. C. Rawlins	Rajahmundry	West Sub division	Ruthnasabapathy Pillay
Lt R. F. Bernard	Western Delta - Godavery	East —do—	Script Stewart
Lt F. J. Dobson	Canarese Sub division		
Mr J. Grimes	Cabiut Sub division	Bangalore Division	Col J J Moberly RE
Lt H. R. Henderson	Vellore Sub division	Extra Superior	Sub Conductor Wilkid -
Lt. O. F. Boddy	Eastern Sub Division - Kistna	Civil Architect	Mr Chisholm
Mr A. W. Hunter	Trichinopoly Sub division		

Officers	How placed	Charges	How filled

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Asst Engrs 1st Grade (Contd)

Lt L. Langley	Western Delta Subdivision Godavery
Lt F. J. Roquelly	Nizapatam Subdivision
Lt & Asst Comr W. Jackson	Kellary Subdivision
Mr J. H. Morfee	Berhampore
Lt R. L. Hamilton RE	Vellore Subdivision
Lt W. L. Baddeley	Ongole Subdivision
Mr W. B. de Whitelow	Eastern Delta Subdivision Godavery
H. Lyons	Cuddapah Division (Ceded Dists)

Asst Engrs 2d Grade

Mr W. M. Monkscraft	Bindgul Subdivision
S. Subroya Chariar	Chellumbrum Subdivision
Mr R. F. Gilby	Salem Subdivision
Mr C. Steuart	Chingleput Subdivision
R. W. Garrett	Tanjore Subdivision
W. C. de Morgan	Vizianagram Subdivision
J. P. Davidson	Kondakmane Subdivision
A. J. Chancellor	do
P. Johnston	Kurnool Subdivision
R. B. Rabelais	Madura Subdivision
W. L. Byrde	Cuddalore Subdivision
C. W. Smith	Northern Subdivision Kistna
W. J. Taylor	West Subdivision Rajahmundry
R. J. Ryfield	Coimbatore Subdivision
J. P. Pfeil	Kistna
G. F. Carless	Vizagapatam
C. Traill	Roychoty Subdivision
R. D. Mc Lean	Cuddapah S. Div Godavery
C. W. B. Burlton	Head Works & Workshops
2d C. Baldwin RE	Mount Subdivision
Mr H. E. G. Evans	Pattukotta Subdivision
W. Japp	Nellore
B. H. Young	Eastern Delta Subdivision Godavery
R. N. G. Bralet	Bhimavy Subdivision
G. E. Manson	Tranquebar Subdivision
G. B. Lambert	Southern Subdivision Kistna
	Palamcottah Sub division

Salem Division	Major Pennycuick RE
Coopoor Subdivn	Lt Baddeley RE
Tripatore do	Condr C. Wade
Salem do	Mr R. Gilby
Extra ~~Supervision~~ Officer	Supr C. Mahoney

5th Circle	Major H. L. Mead RE
Cuddalore Division	~~Non Payment~~ Captain Lemmick
Tyndevanum Subdivn	Condr Milne
Cuddalore do	Mr Bird with title Fr Chief
Extra ~~Supervision~~	Supr Veeraragaviah Pantulu

Virdachellum Division	Mr Larmine 1st and 2d
Chellumbrum Subdivn	Supr Subbroya Chariar

Tanjore Division	Capt Brockman RE
Tanjore Subdivn	Mr R. W. Garrett
Extra ~~Supervision~~	Mr Sub Engr Fox
do ~~Supervision~~	Mr Supr Baker
Tranquebar Subdivn	Mr G. E. Manson
Extra ~~Supervision~~	Supr Mahadeviah
Nizapatam Subdivn	Lt Romilly RE
Extra ~~Officer~~ Supervision	Mr Supr Arbuthnot
Pattucottah Subdivn	Mr Evans
Extra ~~Officer~~ Supervision	Serjt Wand Supr

Trichinopoly Divn	Major W. M. Vibart RE
Trichinopoly Subdivn	Mr Hunter
Extra ~~Supervision~~	Supr Mahomed Kapem Sahib
	Sub Engr Manneappah Pillay
Northern Subdivision	Supr C. M. [illegible]
Extra ~~Supervision~~	

Officers	How placed	Charges	How Killed
			535
Asst Supts 3d Grade		6th Circle	(Vice Crosby Pl.)
A Rathnasabapathy Pillay B.E.	Chittoor West Subdivision	Coimbatore Divn	Capt A. Andry RE
		Coimbatore Subdivision	Dr Russell
		Caroor —do—	Sub Condr Nicholson
		Perundurray Divn	Dr Nordmann
		Bhowany Sub divn	Dr Mallet
		Ollegal —do—	Dr Treacy
Sub Supts 1 Grade	Coilpatty Subdivision	Neilgherry Division	
Mr D. McRae	Cavaty Subdivision	S.E. Wynaad Subdivn	Sergt Barnes
" S. Athanasius	South Canara Subdivision		
" O. M. Fernandez	Bycole Subdivision	Calicut Division	
By Asst Comy S.C. Plummer		Calicut Sub divn	Lt Col Kennedy
		Palghaut —do—	Dr Glynnes
			Dr Lafrenais
Sub Supts 2d Grade		Cannanore Divn	Capt Bailey
	East Subdivision - Ignatius	Cannanore Subdivn	Lt Dobson RE
C. Sambiah Sette	Central Delta Subdivision - Lodewyk	Wynaad —do—	Subengr
Mr J. W. Ellis	Extra Tanjore —do—		
" J. de Fay	Extra ~~Dindigul~~ Madukkoor - Lodewyk	Canara Dist	
By Asst Comy J. Joyce		North Subdivision	Dr Prinsle
		South —do—	Dr Davidson
Sub Supts 3d Grade		Extra Superiors	Dr Fernandez
	Vizagapatam Subdivision	~~Officers~~	Dr Lapsley Mello
Condr C. Eaton	Northern Subdivision - Chingleput		
Mr W. T. Broughton	Nellore Subdivision	7th Circle	
A. Muncappa Pillay	Raidroog Subdivision	Dindigul Division	Major R Wood RE
Syed Yusuf Sait	Wallaja Subdivision	Dindigul Subdivn	Cal Law
T. Parthasarthy Iyengar	Western Subdivision - Kistna	Perakoolum —do—	Dr Monserratte
Mr D. Cartier	Cuddapah 5 Dists		Dr Nickerson
Mr G. Vardon			

Officers	Now placed	Charges	Now filled
Supervisors 1st grade			
Conductor P. Sweeney	Cuddapah Sub division	Madura Division	Mr Harrington
" J. Nicholson	Carour Sub division	Madura Sub division	Mr Stubbings
Mr J. W. Lackey	Extra - Mount Sub div.n	Shivagunga —do—	Mr Grant
Conductor W. C. Wood	Tripatore Subdivision	Ramnad Asst Engr	Asst Engr
Mr W. T. Baker	Extra. Tanjore Sub div.n		
" R. S. Harris	Extra Office - Kackeree Delta Division		
Sub Conductor P. B. Sanderson	Extra. Chingleput Sub div.n	Palamcottah Distn	Mr Grant Supt
A Kalish	Godavery	Extra Assistant Supervision	
Sub Conductor A Milne	Nuddevanchie Subdivision	Palamcottah Sub division	Mr G Hooker
Mr B. Stephens	Extra Office - Ongole Sub Div.n	Shermadevy —do—	Mr Berlie
Conductor R. Lennon	Vizidachellum Sub Div.n		
Mr J. W. Stephens	Ipsdur Sub division	Cailpuddy Distn	Mr Hughes
C. Mahomed Kassim Sahib	Pincheinopoly	Strivilliputhoor Sub division	Mr Watkins
Mr S. Francis	Extra Watchop Residency	Cailpuddy —do—	Mr McNair
Sub Con.r P. Cornaes	Extra Office - Kumedy Div.n		
Sub Condr J. Lalor	Extra Office - Nellore Sub Div.n		
Conductor D. Falvey	Extra. Mount Sub Div.n		
Mr J. D'Mello			
		Special	
Supervisors 2d grade		Buckingham Canal Madras	Mr A Shanfurapy
	Strivilliporthoor Subdivision	Northern Sub.n	Supr C Mr W. Matthews
Mr T. Watkins	Extra	Southern —DO—	Supr C Condr J Power
" J. O'Leary	Bellary Division		
" J. D'Mello	Extra - Cuddapah Division		
" F. A. Nicholson	Peracotum Subdivision		
" H. C. Berlie	Shermadevy Subdivision		
G. Venkatta Row Canticlu	Kumedy Sub Div.n		
Mr C. Mahony	Extra - Salem Sub Div.n		
" W. H. Nicely	Callegal Subdivision		
Moorshummedeen Sahib	West Subdivision - Guntur		
Condr J. A. Power	Buckingham Canal South		
A. Veerarayanah Canticlu	Extra. Cuddalore Sub Div.n		
Serjt C. Stewart	Chittoor. East Subdivision		
Condr W. Jack	Pennacondah Subdivision		
Serjt R. W. Ward	Extra - Cuttack Sub Div.n		
Mr H Arbuthnot	Extra. Negapatam Sub Div.n		
S. Mahadava Sayr	Extra. Trangapar Sub Div.n		
Condr P. W. Taylor	Cuddapah		

Officers	How placed	Charges	How filled

Superviseurs 2e grade (Cont.)

C. Channakombie Pillai	Head Sub division
Serjt. T. Lyons	Extra ~~Assn~~. Dumagoodrum &c
Mr H. W. Bond	Nandial Sub division
" J. E. Lafrenais	Palghaut Subdivision
Sub Condr W. Willis	Bangalore
" L. Rogonachairie	Madrafpully Sub division
Serjt J.K. Chapman	Godavery 4th Extra.
Mr W. A. Mathews	Buckingham Canal. Korta. S.D.
Sub Condr H. Pimm	Extra Presidency &c
Mr J. E. Brant	Shingunga Sub division
Serjt H. Frankland	Kudlagi Sub division

Govt. of [1878] Madras.

PUBLIC WORKS.

To All District Engineers

dated September 18th

Rec'd.

Read

Govt. 18th Sept. 1878. No.

Nos.

Re organisation of the
Public Works Department
Passing orders on the —

Forwarding for information,
Copy of G.O. No. 1310 dt 19th Sept. 1878
introducing certain changes in the
organisation of the Public Works
Department in this Presidency.

Presented
G.O. 1310 dt
3/14 Sept 72

MADRAS
Governm
Public
G. O. (Print
Dated /8
No. 3674-