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MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No.	Press Mis.
Dated	18 .

Not to be folded or roughly handled

MEMORANDUM.

1. In forwarding to the Superintending Engineers a copy of the Annual Progress Report of Public Works in this Presidency for the year 1865-66, which has been compiled with the aid of the Administration Reports received from the several Divisions, the undersigned has the honor to request attention to the following defects in some of the local reports.

2. In Memorandum No. 74, dated 21st December 1864, it was stated that the main object of the information to be furnished in the Superintending Engineers' Administration Reports, in regard to the progress towards completion which the works have attained, is to afford a satisfactory answer to the question, What is the present state of a Road, Canal, Cutcherry, &c.? On reference to paragraphs 9, 16, 22, 26, 29, 34, 42, 47, and 66, of the accompanying printed Report, it will be observed that the information supplied upon this point, in the case of several works, is very meagre and unsatisfactory.

3. In Clause IX., paragraph 1 of the Memorandum quoted above, Superintending Engineers were desired to enter in Statement E. *all* new works noticed in the Report. In some cases this has not been attended to. Example: Paumbem Channel, Madura District.

4. Statements C. and D. The column of Remarks has not, in all cases, been filled up. See paragraphs 103, 106, and 109.

5. The amount of private contributions and the outlay from that source have not been stated with sufficient clearness.

6. Some of the reports contain an account of the progress made on works of the most trifling character. Under paragraph 1, Clause VII. of the Memorandum already quoted, the reports should have been restricted to *really important original works*.

7. Under the head "Repairs," no information has been afforded in one or two Districts regarding the number of Military buildings, and the number of miles of road maintained in repair during the year.

8. The undersigned requests that in the preparation of future reports, the instructions contained in Memorandum No. 74, may be strictly followed. All matters relating to the outlay and progress made upon works executed *exclusively from Local Funds* should be reported in Statements C. and D., and should be altogether omitted from the body of the reports.

(True Extract.)

FORT SAINT GEORGE, (Signed) CHARLES A. ORR, Colonel, R. E.,
PUBLIC WORKS DEPARTMENT; Secretary to Government.
31st July 1865.

To the Superintending Engineers, with Administration Report.

Exd. S. T. Augustin.

Superintending Engineer, T. D.

Ms. 68

Superintending Engineer's
Office, 1st Div., Malabar,
19th May 1865.

From Captain J. G. Ryves R.E.

To Superintending Engineer

Colonel C. A. Orr R.E.

Secretary to Govt., D. P. W.

Sir,

Madras.

I do myself the honor of
submitting my Administration for
1864/65, with Appendices as follows:-

1 Statement (Form A) showing the expenditure
upon New Works.

1 Do — (Do B) — Do — Repairs.

1 Do — (Do C) — Do — from Income tax.

1 Do — (Do D) — Do — from Distt. Road
& Co. funds.

1 Do — (Do E) — showing the New Works
noted in Report.

1 Additional Statement
showing expenditure
from Local funds upon
Repairs.

I have the honor to be

Sir,
Yours most obedt. &c.

W. J. Ryves R.E.

Superintending Engineer, 1st Div.

1st Division Administration Report for 1864/65.

Para-1. The allotments from Imperial Funds in each District of the Division during the past Official year were as follows:—

Ganjam.

Allotments as per Budget for 1864/65 ————— 93,373

add. Amounts sanctioned from the Reserve Fund

G. O. No. 381 of 6th Feby/64 3000

G. O. No. 1307 of 6th May 1900

G. O. No. 1941 of 4th July 8253

Transferred from other Districts.

G. O. No. 555 of 27th Feb. 65 15000

Carried forward 28,153 — 93,373

17. 1865 Date
for Budget 1866.

The Supt. of Engineers
Division

The Secretary to Government

at P.O.

Dated 19th 3 May 1865.

Recd 27th

Day.

1868

Submits Administration
Report for 1864-65 with
its own statement. —

Total - 1,299 64 - 1 - " Books & Papers

Carried forward - 420-228228-1-8

4. Brought forward — 420-228,228-1-8
 Amounts transferred to other
 Dist. vide, G.O. No. 345 of 7-2-65-200
 G.O. No. 555 of 27-2-65-8792
 G.O. No. 1053 of 20-4-65-1975
11,387-11-11

Net allotment for works — 2,16,841-1-8
 Grants for Tools & stores as
 per G.O. No. 3020 & 1088 of
 20th October 64 and 24th April
 1865, respectively — } 796-5-1

Total allotment of the Dist. — 2,17,637-6-9
 which sum was appropriated as follows:—

for New Works Rs. 1,54,191-1-8
 Repairs — " — 62,650 — " —
 Tools & stores " — 796-5-1

Total — 2,17,637-6-9

Godavery.

Budget allotment for 1864/65. 5,20,304-11-11

Add Amounts sanctioned from
 the Reserve — vide,

G.O. No. 381 of 6-2-64 5000
 G.O. No. 1443 of 18-5-64 2,663
 G.O. No. 1470 of 20-5-64 1860
 G.O. No. 1480 of 20-5-64 200
 G.O. No. 1523 of 25-5-64 31-12-11
 G.O. No. 1622 of 3-6-64 1,375-11-11
 G.O. No. 1697 of 10-6-64 1,220-11-11
 G.O. No. 1757 of 17-6-64 3,348-11-11
 G.O. No. 1788 of 20-6-64 652-8-11
 G.O. No. 2109 of 22-7-64 305-11-11
 G.O. No. 1941 of 4-7-64 9,471-11-11
 G.O. No. 2523 of 31-8-64 127-8-11
 G.O. No. 349 of 7-2-65 300-11-11
 G.O. No. 392 of 10-2-65 2,20,000-11-11

Additional
 Budget grants }

Transfers from } G.O. No. 1053 of 20-4-65 18,300-11-11
 other Dist. } G.O. No. 2120 of 23-7-64 1,181-11-11

2,66,035-7-11
7,86,339-7-11

Deduct Amounts recredited to Reserve,
 vide — G.O. No. 2406 of 22-8-64-180-11-11

Carried forward 180-11-11 7,86,339-7-11

Brought forward 180- 786339-7-

Amounts transferred to other Distts.

Q. O. No 740 of 11-3-64 12800-00

Q. O. No 1631 of 3-6-64 1100-00

Q. O. No 1713 of 13-6-64 10800-00

Q. O. No 555 of 27-2-65 4551-00

Q. O. No 934 of 5-4-65 28-00

Q. O. No 1053 of 20-4-65 18211-00

Do to "Tools and Stores",

Q. O. No 2823 of 29-9-64 1100-00

Q. O. No 3123 of 31-10-64 486-1-

Q. O. No 100 of 12-1-65 500-00

Q. O. No 288 of 1-2-65 900-00

Q. O. No 801 of 23-3-65 53-1-

Q. O. No 824 of 25-3-65 688-00

Q. O. No 1943 of 5-7-64 11-12-

Q. O. No 3349 of 22-11-64 258-12-10

Q. O. No 455 of 16-2-65 270-1-7

Q. O. No 824 of 25-3-65 688-00

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Q. O. No 824 of 25-3-65 688-00

The following Table compares the allotment under each head with the expenditure (including advances to Civil Officers) in each of the three Districts constituting the Division.

Districts	Allotment				Expenditure				Balance unexpd.
	New Works	Repairs	Tools & Stores	Total	New Works	Repairs	Tools & Stores	Total	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gaujam	59,239	69,913	812	129,964	60,181	67,726	1,003	128,910	1054
Vizagapatnam	154,191	62,650	796	217,637	146,847	59,424	796	207,067	10,570
Gooldanery	48,491	24,225	4,268	77,120	47,351	21,926	4,246	69,702	3,418
Total	69,834	374,588	5,876	1,078,811	660,539	346,017	6,045	1,033,001	45,810

Allotment for Works 59,397-2-00
7,26,942-5-00

Grant for Tools & Stores as per the last six orders above quoted 3,727-2-00

Q. O. No 1943 of 5-7-64 11-12-

Q. O. No 3349 of 22-11-64 258-12-10

Q. O. No 455 of 16-2-65 270-1-7

Q. O. No 824 of 25-3-65 688-00

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Q. O. No 824 of 25-3-65 688-00

Paragraph 2. In Gaujam - there is only one work (Berhampore Church) for which private individuals have contributed funds. these contributions amount to Rs. 3,500 of which Rs. 2,650 were drawn and spent on the Church in 1864/65.

(Vizagapatnam) - the expenditure under

Private Contributions.

2. 8.
 under this head in this District
 amounted to Rs. 19,074 and the State-
 ment annexed shows the works on
 which it was incurred.

Statement

Names of Works	Sum drawn	Sum spent	Balance in hand	Remarks.
	Rs	Rs	Rs	
Jeypore Road from Vizianagaram to Bow- dara	13,246	13,246	0	{ 50,000 Rs. contribu- ted by the Maharaja of Vizianagaram.
Repairing the Road from Vizianagaram to Chittavaleak	1,200	1,200	0	{ Annual grant by the same Rajah
Orphan School Dormitories	4,063	4,028	35	Local subscrip- tions.
Civil Dispensary at Pimlipatam	600	600	0	Do do
Total	19,109	19,074	35	

Goalavery - None.

Para- 3. The important original works
 under execution during the past year
 are.

"Civil Buildings"
 Vizianagaram.

Zillah Jail at Vizianagaram - the
 total expenditure on this work upto 30th
 April 1865, was Rs. 16,542-8-1.

The expenditure of the year 1864/65, Rs.
 9,869-4-10 would have been greater,
 but for the saving effected by the
 employment of convict labor, which
 first became available in October last,
 on the receipt of Government Order No.
 1352 of 10th September 1864.

Two of the radial wards containing
 accommodation for about eighty pri-
 soners, have been completed. Two other
 wards are now being roofed in; a fifth
 is ready for its roof; and at the re-
 maining ward the doors & windows
 have been fixed and the walls carried
 up six feet. Half the Compound
 wall has been completed and the co-
 ming covered with broken glass. The
 Central

central tower will shortly be commenced.

The supply of timber for roofing has been the chief cause of delay. It had been decided to use sal wood obtained from the Kennedy forests, and arrangements had been made accordingly but early in the year new regulations of the Conservancy Department, ~~there~~ obstacles in the way of obtaining timber which still continue. However, nearly the whole quantity required for the jail has now been received.

Para - 4. Central jail at Rajahmundry - Godaverry -
dry - expenditure up to the end of past official year amounted to Rs. 124,179. and the progress made was as follows: -

Of the five Radial blocks of cells; three are finished, one half finished, the other at basement level.

Of the six work-sheds; one is finished, two being roofed and the remaining three have their walls up.

The

The walls of the cells for females and solitary confinement are raised 5 feet. The Central Warder. lower story finished. Enclosure wall about one third done / 3 sides 14' high, 2 sides 8½' high, and 2 sides 4' high: two of the radial walls commenced, & four of the lowers.

A large well (22' diameter) lined with cutstone (& sunk 72 ft.) has been completed.

Para - 5. Raising the Godaverry Anicut -
"Agricultural" Expenditure up to 30th April / 65, Rs. 2,16,656.
Godaverry 12372 Cys. of cutstone work performed.
75664 Tons of rough stone added to the apron.
4312 Rs. 400 of sand bank placed in front of 4 Anicuts.
1217 Cast iron posts fixed & 200 in hand.
On the Vigniswaram, Mudloor, and Rally branches the raising of the Anicut with the additional Apron is completed. On the Dowlaiswaram branch the cutstone work to crown has been carried out for a width of 4 yds. throughout 1300 yds. of the

the length (1620 yds) and nearly all the additional stone apron has been packed in.

Para-6. Colore High Level Canal from Perikud to Dendooloor & from Dendooloor to Mundamoor. Expenditure up to 30th April/65, Rs. 22,0702. "Agricultural"
Goolamery

The tail race of the aqueduct across the Somoolair which was well advanced at the end of last Official year was completed in September last. This work has formed the subject of a special Report on which the orders of Government were passed on the 18th February 1865. *A. 484.

The progress of the works therein ordered to be carried out has been checked by sickness among Workmen and by the double duty thrown upon Lieut. Smalley in consequence of Captain Mackgill's absence on sick Certificate: they will be pushed on and completed as soon as possible.

Para

Para-7. Improvement to the Acheed Canal. Agricultural Expenditure up to 30th April/65, Rs. 22,000. Goolamery very little progress made, the grant for the year being insignificant; and intimation that no grant would be made for the ensuing year, having been received in time to prevent further waste of time & money on the commencement of a work which, it appears, is to be left incomplete for an indefinite period.

Para-8. Constructing Locks and Calingulaks in the Mundapetta Canal. Total expenditure, Rs. 40,257. All completed with the exception of a part of stone pavement in Palsalapoody Lock & a little earth work.

Para-9. Road from Mojaigadai to Sunkerpole. Communications Expenditure Rs. 34,623. Goolamery Earthwork finished for 21 miles, with masonry works up to top of the Kalingia Ghat.

14. ^{ghat} - Gravel spread for 6 miles
and side slopes turfed for a distance
of 9 miles.

Para - 10. Road from Askar to ^{"Communication"}
Ganjam. Earthwork thrown up for
the entire length of Road (30 miles) 5
miles bridged (26 works) metal &
gravel to the value of Rs 1,200 and Ma-
sonry material to the value of Rs 5,900
in hand - Total expenditure Rs 22,500.
It should be borne in mind that this
work was commenced so late in the
season as December, sanction having
been accorded only on the 12th Dec^r/64.

Para - 11. Road from Vizagapatnam ^{"Do"}
to Rajapore. The total expenditure
up to 30th April amounted to Rs 3,7392-8-4.
The sum expended in 1864/65 was Rs
23,897 and the Chief Cause of delay was
the inefficiency of the means of

Superintendence.

Superintendence available; and was con-
=ed simply of Goomastahs and Priestries
without any Overseer or other qualified
subordinate to aid the Executive Officer
in supervising the large outlay in pro-
=gress.

The whole of the tunnels and nearly
all the sluices in the first twenty
miles have been completed. Of the
four bridges in that distance, the
foundations and walls of three have
been constructed, and materials col-
lected for the fourth. the founda-
tions of two other bridges - in the 26th
& 27th miles have been laid.

The actual quantity of work done
in the year was as follows:—

29 tunnels, 18 sluices, and 3 Road
dams completed; 2 Tunnels, 6 bridges
& 2 road dams in progress; also earth
work, metalling & graveling at various
places between Causarapollen in the
3rd mile and Gungubudi in the 21st.

Para.

16. Para-12. Iron Girder Bridge at Godanery
Cocanada. Rs 400 54 have been spent
upto 30th April/65.

Both abutments finished.

16 (out of 18) girders finished &
ready (in the Dowlaismerum Workshop)
and the cast iron cylinders for the
piers have been despatched from
England by the contractor.

Para-13. The following is a tabular
Statement showing the number of works
repaired in each District:—

Description of Works	Surjani	Vizpaga Taluk	Godanery	Total
(a) Irrigation Canals	50	20	107	177
Dykes	88	45	71	204
Drainages	13	5	16	34
	0	0	23	23
(b) Road — Miles	357	313	128	798
Canal — do	0	0	180	180
(c) Military buildings	3	25	2	30
Civil Buildings	25	17	50	92

Para-14. Unusually extensive repairs
have been made to Works in this Di-
vision during the past year.
The following are the heaviest items
under the head of repairs:—

(a) Repairing the Godanery } ^{Expenditure} Rs 26,931
Ancient —————

— Do Rough stone revetment
and Groynes for the protection
of river bank of Eastern
Delta ————— } 17,958

(b) Dredging the Cocanada } 19,652
Harbour —————

1. 24,685 tons of rough stone have been
added to the apron of the Ancient &
1778 Paving of concrete work done.
500 sets of Calingula shutters also made.
2. The rough stone revetment of river
bank of Eastern Delta has also been
strengthened by an addition of 13624
Cys. of stone.
3. — 72457 Cubic yards of silt were
dredged out of the Cocanada
harbour

harbour; - its water way has been main-
-tained at nearly the same transverse
section area as it was last year.

Para - 15. The rates of labor and ma-
-terials still continue to rise and the
difficulty experienced in 1863/64, in
obtaining a sufficient supply of mate-
-rials ~~was~~ for some of the works under
execution also prevails in some part
of the Division.

While in Vizagapatnam there has been
a tendency to arise in rates - In Ganjam
and the Godavary they have remained
at about what they were last year,
that is, very high in the latter District
& very moderate in the former.

Para - 16. Operations of Dowlaismerrum
Workshop - The amount charged for work
turned out during the past year was
Rs. 1,72,118 of which Rs. 1,67,399 was for
new works & Rs. 4,719 for repairs. The
work done for private parties is valued
at Rs. 7,653 or about $4\frac{1}{2}$ per cent
of

of the whole.
The accounts of the shop are clearly kept
& well up to date. The rates, at which
work is done, appear exorbitantly high:
yet private parties employ the shop
in preference to Calcutta Establishments
though the coasting steamers afford
facilities of communication with them.
The balance sheet shows a profit to the
amount of Rs. 26,976, which compared with
the previous year's account shows an
improvement of Rs. 7,925.

Para - 17. The annexed is a Return showing the
traffic on the Godavary Canals compared with
that existing in 1863/64.

Names of Locks &c.	1864/65.				Total.	1863/64.				Total.
	Saden locks	Wylah locks	Wam- dit locks	Profits		Saden locks	Wylah- den locks	Wam- dit locks	Profits	
Dowlaismerum Lock	6033	3504	4866	1133	15536	7705	4916	5707	3053	20781
Bobberlunka Do	1836	1080	826	384	4126	1329	865	531	241	2966
Vizagimerum Do	4207	2574	5312	5214	17247	3867	2148	4306	4226	14527
Ellore (R. P.) Do	620	898	1336	3	2857	645	174	532	41	1392
Do (G. P.) Do	1380	239	1325	149	3093	111	288	323	0	722
Nandamore Aqueduct	2376	1487	3113	196	7172	2082	1103	2494	90	5769
Ellore Do	702	199	2385	57	3337	0	0	0	0	0
Total	17154	9921	19163	7130	53368	15739	9494	13293	7651	46177

Para-18. Season Report. The rain-fall in 1864/65, has been considerably below the average of the last 3 years preceding and its insufficiency has been much felt throughout the Division. Paddy crops have in many taluqs failed and the price of all agricultural produce has been higher than in 1863/64. The dry crops have generally been good. Water in wells and tanks is scarce.

In the last week or two of the year a few cases of Cholera have been reported in the Godavery District; and there has been an average amount of fever and small pox - but on the whole the season has been remarkably healthy.

The total fall of rain in each of the District constituting the Division is:-

	Inches.
Ganjam { North - 48 *	
{ South - 28	
Vizagapatnam - 26	
Godavery - 26	

* heavy falls of rain at unseasonable times.

Para-19. It will be seen from the numerical statement given in paragraph one that a total sum of Rs 4,5810 remained unspent from the allotment (Rs 1078811) of the Division. The portion of this deficient expenditure in Ganjam being only Rs 1054 calls for no remark; but the expenditure on "tools & stores" which is in excess of the amount (Rs 812) allotted under that head viz Rs 191, requires explanation. This Office had not become aware of this additional outlay before the termination of the year 1864/65 & therefore could not obtain in time the necessary sanction of Government.

Vizagapatnam. The short expenditure of the allotment of this District is Rs 10,570. the principal items of which are:-

New Works. Rs.
Certain small works in connection with & enlarging salt platforms of central ponds } 1630 unexpended
Carried forward 1630

Brought forward - 1630 -

Road from Melimookko to
Gazpookab } 1224 - Unexpended

Trunk road from Chittav
- ankab to Chicacole } 1171 - Do -

Road from Vizianagrum
to Cheerpilly } 1715 - Do -

Alterations to the Court
House at Vizianagrum } 624 - Do -

Civil Dispensary at
Bimlipatam } 355 - Do -

Lightning Conductors at
Vizianagrum } 216 - Saving

6935

Repairs.

Military - 699 Unappropriated owing
to the removal of the
artillery.

Civil Buildings - 1889 - Do - owing to the
short expenditures by
the Revenue Department
on Salt Works.

Communications - 303 } Partly saving and
Agricultural - 277 } partly unappropriated.

3168.

Godavery.

The amount which remained unspent
in this District was Rs. 34,186, and the
following is a list of Works on which
it should have been spent.

New Works.

	Rs.	Remained Unspent.
Ellore High Level Canal (H. P.)	3,640	
- Do - Do - (G. P.)	3,948	- Do -

Salungula to Bayanur
River } 1,556 - Do -

Mundapetta Falls - 1,359 - Do -

Cocanada Harbour
Light House } 1,128 - Do -

Apothecary's House at
Cocanada } 1,054 - Do -

12,685

Repairs.

Civil Buildings - 5,521

Agricultural - 11,088

Communications - 4,455

Miscellaneous Public
Improvements } 1,448

22,512

The

The short expenditure in these two Districts I cannot account for; I have called upon the Officers of Ranges to explain how their actual expenditure has fallen so far short of the appropriations set down in my statement of appropriations on 1st April which was prepared after careful consideration & in communication with the Range Officers: & why they did not in accordance with my orders report at once their inability to make use of the funds I proposed to place at their disposal.

Para-20.

Tolls.

The annexed is a statement of the tolls levied on Boats used in the Navigable Canals in the Godavary, during the year 1864/65 - it shows an increase of upwards of 25 per cent on the returns of the preceding year.

Amount Disbursed
on account of
Tolls
Collected
of 1864/65

In 1864/65.	26389	1041	
In 1863/64.	20993	444	* Only for four months viz. from January to April 64. inclusive.
Total.	47382	1485	

Sup. Engineer's Office, D. W.
Kalthur, 19th May 1865.

Y. A. 17
Superintendent of Revenue, D. W.

Administration
 Report for 1864-65.
 D M 1866/65

1st Division

of the Superintendent
 Engineer 1st Div.
 of the Secretary to
 Government 1st Div.
 District 19th
 District 20th } May 1865
 Road

— Expenditure for 1864-65 —

District	Military	Fuel Buildings	Sundry	Communications		Total	Remarks
				Presettlement	Public Works		
Banyan	"	20544	3126	1758	6281		
District 19 th	3171	49283	6535	105502	164721		
District 20 th	"	86381	245232	32716	473511		
<u>Total</u>	<u>3171</u>	<u>156438</u>	<u>358193</u>	<u>180079</u>	<u>3182</u>	<u>701063</u>	

Superintendent Engineer Office
 1st Division Madras
 May 1865 - 3

D. M. 1866/65
 Superintendent Engineer 1st Division
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1865
 1866

File. 1866/65-

during the year 1864-1865.

Erfruchtung: adon. New Probes

Quadr.
Dec 11
Dec 2

Mr Secretary of Government
S. P. O.
Madras

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Expenditures upon Repair Works during the year 1864-65.

Inspector Extra Office
1st Division Galvani }
May 1865. —.

W. J. [Signature] - Superintendent Engineer P. & D. R. Co.
 East 108.

Wm Lloyd Garrison

From
the Superintendent Engineer
of the Division
of the Secretary of the Government
A. J. P. N.
Received
date
Recd

Expenditures upon Repair
works during the year 1864-65

Q. No. 1866/65

—Expenditure from Income Tax during the year 1864-65—

[illegible]

Superintendent Engineering
1st Division Baltimore
May 1865. —

W. J. H. J.

Superintending Engineer & Division.

1828-11
27812
1656
1656-11

from
The Jackson-Lewis
Division

To
The Secretary of the
A.S.P.
Prasad.

about
about
Recd

12

Expenditure from Decem-
ber 1900 during the
year 1901. 65.

2/10. 1866/65-

Expenditure from District Road fund Funds during the year 1864-65.

Remarks regarding progress made towards completion.

Work	Amount expended	Remarks regarding progress made towards completion.
<u>Port Funds</u>		
Ridgeway to Sea (Custom House at Sumbat)	269	Completed.
<u>Sea & Land</u>		
Road from Juggamathoor to Perchappur	50.85	12 Miles Earthwork completed (almost entire distance) 40 masonry works built including 2 large platform bridges. 3600 Cubic yards gravel spread.
<u>District Maintenance Fund</u>		
Moslem Bridge across Charampoor Gadda	370	Completed.
Total	<u>5684</u>	
<u>Educational Fund</u>		
Constructing school at Vizayapatnam	14526	
Do do at Palag school house at Vennicko	11	
Total	<u>14537</u>	
<u>District Road Fund</u>		
Constructing four self acting tunnels along the North bank of Coarada River	1691	1423 feet of earthwork done, 2652 Cubic yds. of masonry work performed. 2 tunnels completed and materials being collected for others.
District road from Pennungonda to Juggamathoor	2930	2 Abutments completed and the arch girder is being put up.
Son grider bridge over Baranoo	2693	12666 feet of earthwork done, 26 wells sunk, 18/30 masonry built. 1 abutment under construction.
Midland Eastern Embankment of Junction Canal from Samuleska to Coarada	152	2773 Cubic yards Earthwork done.
Completing Country and Rothapetta Road	366	Completed.
Road from Amhajepetla to Amalapuri	2577	Laying of Road is in progress, 140 fms of sand put on road. Advance made to workshop for bridges.
do from Panukin via Doora to Puttipand	1911	5 mile between Panukin and Parivilly pands, and Earthwork between Panukin and Doora 5 miles completed, turfed, and levelled.
do from Narsapur to Veeravasarum	33	Surveying charges.
Total	<u>12673</u>	
<u>Educational Fund</u>		
Jilliah school at Rajahmundry	3947	Completed but settlement is yet to be made.
Total	<u>16620</u>	
<u>Grand Total</u>		
	<u>26871</u>	

Superint. Engr. Office P. Dist.
Practan May 1865.

Will, 1914

8038
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147-
Superintending Engineer pt. Division.

from

The Secretary, Bureau of
the Division

to the Secretary of the Government

D. P. P.

Prasas

about
the
Dec.

Expenditure from the tract
has been paid for during
the year 1864-65. —

2/10. 1866/65-

Statement showing the work done and the Administration Report for 1864-65.

Project	Original estimate	Actual cost	Remarks
Road from Vijayapada near Rupasingha and his son's property Chandur to Chingia and his son's property	49700	51226	13000
Road from Veta to Ganjam Dutta and his son's property	62700	21000	22500
Total	112400	31624	35529
Rail building Constructing a rail line at Vijayapada from Rupasingha to Chandur to Chingia and his son's property	23372	6672	10350
Road from Vijayapada to Chandur to Chingia and his son's property	115000	13495	25000
Road from Vijayapada to Chandur to Chingia and his son's property	53080	2546	5000
Total	399792	33850	33850
Constructing Central rail at Vijayapada Supplemental	186000	55528	80000
Raising Godavery and High level Canal from Pikes to Sandalwood Supplemental for the Eluru lock Do for the Eluru lock Do for the Eluru lock Supplemental	300000	1689	108255
High level Canal from Sandalwood to Sandalwood Improvement to the Eluru lock Constructing locks and bridges in the Sandalwood Canal From under bridge at Sandalwood Total	75000	28405	6000
Grand Total	539360	323957	274209

Superintendent's Office
1st Division
May 1865

Superintendent's Office
1st Division
May 1865

Office of the Controller of M.
Accounts
Madras 16 June 1865

N^o 457

From
Captain J. F. Fischer R.E.
Controller of M. Accounts

To
Colonel C. A. Orr R.E.
Secretary to Government M.D.
Fort Saint George

Encls 4
1 Administration Report
2 Audit Reports
1 Circular P.V. 1865
Sir

In forwarding herewith the
Administration Report of this Office
for the year 1864/65. I have the honor
to intimate that in consequence of the
accounts for April 1865 not having been
received from the Districts noted
in the margin, the amount of expendi-
ture for the year 1864/65 as given in
the present Report cannot be verified.
For the same reason this Office cannot
state the actual amount of advances
made to the end of April 1865 to
Civil Officers but from the Accounts
— already.

From the Controller's Office
to the Secretary to Government
M.D.
Madras
P.V.
1865
Local Fund.
Expenditure upon repairs
during the year 1864-65
P.V. 1864/65

already received the total is about Rs 33,000
 which may be increased
 by debits in the accounts still want-
 ing. only Rupees 7200 have been
 finally passed on account of expenditure
 against the above advances. Some of the
 Accounts received had to be returned
 for revision but these do not ac-
 count for any large sums. The
 heaviest disbursements under this
 head are those in the Godavary and
 Vizagapatnam Districts on account
 of Compensation for land for which
 advances have been made to the
 Collector which if not fully dis-
 bursed within 30 April 1865 nor ac-
 counted for in the Accounts for April
 1865 and Bills will be held as
 lapsed balances and will re-
 quire further appropriation of funds
 in the current year

Have the honor to be
 Sir,
 Your Most Obedt Servt

Captain R. E.

Administration Report of the Controller
 of Public Works Accounts for the year 1864
 1865.

In the Audit Branch of the Office
 of the Controller of Public Works Accounts period-
 ical and final Bills for works in Progress
 and those completed are examined and finally
 passed, or submitted to Government for ap-
 proval or sanction. The result done during the year
 1864/65 is shown in the sub-joined Statement,
 and comparison with the amount of work
 turned out in the preceding year shows an
 increase of nearly 20 lacs of Rupees Bills,
 disposed of in 1864/65.

Reports.	Bills received during the year.		Bills disposed of.		Remained on hand at the end of the year.	
	N ^o	Amount.	N ^o	Amount.	N ^o	Amount.
1863/64.	7714.	50,00,584.	7709.	49,96,732.	5.	3,852.
1864/65.	7506.	69,34,626.	7462.	69,01,351.	44.	3,32,75.

The above relates to works from Empire-
 rial Funds. The expenditure from Local Funds
 of previous years and from the grants out
 of the Income Tax Receipts, for which Bills
 are audited and passed by the Controller
 has been disposed of to the amount of
 Rupees 8,30,200 in 775 Bills, against only
 Rupees 5,35,524 in 283 Bills disposed of in
 the preceding year. The excess is owing
 chiefly

chiefly to the adjustment of the expenditure of the Income Tax Grant having place more promptly. The expenditure from the Grant under District Conservancy and Forest Grants from 1st May 1864 has been transferred to the credit of the Board of Revenue. It has however been subsequently ruled by the Government of India that the outlay out of these funds by Public Works Offices should also come under the audit of the Controller, and arrangements are being made for carrying this out from the current year.

Detailed Reports of audit showing the receipts and disposal of Bills in each part of the year separately for Imperial and Local expenditure are herewith submitted, which show that objections were taken on audit to 499 Bills amounting to Rupees 579,174 for Imperial work and to 611 Bills for Rupees 127,425 for Local work outlay; and that 202 Imperial Grant Bills for Rupees 310,581 and 32 Local Grant Bills for Rupees 54,334 had to be submitted to Government for special sanction there having related to expenditure beyond the competence of the Controller to pass finally, and to expenditure on works not properly accounted for, and for which

Appropriations

Appropriations were not made by Council. Besides these, Bills for Tools and Stores purchased, and for repairs and carriage &c. of Tools and Machinery amounting to Rupees 40,396, were passed in this Office and reported upon to Government in quarterly Statements.

The expenditure on Public Works in previous years which remained unaccounted for on the 30th April 1864 was stated in last year to have amounted to Rupees 5,182,748. During the year 1864/65 Rupees 444,0503 had been adjusted leaving only Rupees 742,445 unaccounted for. But to this sum has now to be added Rupees 38,32,969 of the expenditure of the year 1864/65 which remained unadjusted on the 30th April 1865, and Rupees 50,000 in round number to be accounted for of the expenditure in "Tools and Stores" nothing on aggregate of Rupees 4,62,5414. These results are more favorable than in the preceding year considering that the outlay in 1864/65 was more than in 1863/64.

In addition to the outlay by Public Works Offices, Civil Officers have received advances to the amount of Rupees 3,34,000

G.O. 15th June 1864, No. 1733.

G.O. 7th May 1865, No. 1340.

Expenditure in 1864/65. — } 5,331,441.

Bills passed in 1864/65. — } 14,984,72.

Unadjusted 30th April 1865 } 38,32,969.

Unadjusted balance of the year 1861/62 1862/63 and 1863/64. — } 742,445.

— of 1864/65. — } 38,32,969.

— of Tools and Stores. — } 50,000.

To be accounted for on the 30th April 1865. } 1,62,5414.

Expenditure in 1863/64. — } 4,862,310.

Bills passed in 1863/64. — } 11,51,589.

Unadjusted 30th April 1864. — } 37,10,721.

up

and it was his point not the consistency
of the accounts with the Department in money
with other business. This Department
had also transacted much business with the
Deputy Auditor and Accountant General
of the Treasury in checking the monthly debits
and credits to the P.W. Department in
the various Treasury Accounts of the Civil
- Treasury with corresponding entries in the P.W.
Accounts, as well as with the Superintendent
- Civil Engineers in pointing out mistakes
and defects in their accounts, after their
monthly examination. Under the system intro-
- duced last year all Civil Officers under-
- standing the execution of Public Works had
to account separately to this Office for the
advances made to them by the P.W. Officers,
by which arrangement additional accounts
had to be kept, and the business of the
Department increased to some extent.

Office of the Auditor of
P.W. Accounts.
London 16 June 1865.
Controller of P.W. Accounts.
Captain

Send me a letter from the
in the 1913-14 season
to the day the 1913-14
season 1913-14.

Sept 22/13

1913-14

Report of audit of Bill Branch in the Office of the Controller of Public Works Accounts from May 1864 to April 1865

	Bills remaining on the 1 st of each month during the year			Bills received during the year			Total	Bills passed			Bills recommended to Government			Bills objected to			Total	Bills remaining on the 1 st of each month		
	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount	N ^o	Amount
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
May 1864	5	3852	129	340	5045	945	345	50844	7	17595	75	7	132528	151	21	66109	117	207	37459	521
June	138	133857	158	890	56424	267	1028	69809	4	363061	10	10	5732	73	20	12634	26	586	38072	48
July	442	317366	17	871	67528	94	1313	99239	4	513270	2	25	80937	8	60	25995	131	776	62020	3
August	537	372191	2	799	98371	5	1336	135590	6	835939	10	4	135489	48	47	43038	11	924	101446	6
September	412	341439	3	632	658831	24	1044	100002	70	679532	10	9	5793	38	42	54084	3	11	816	739410
October	228	260860	37	703	953948	510	931	1214808	9	664192	12	24	392268	6	23	53885	133	842	114034	6
November	89	74461	99	650	533200	24	739	607661	121	362427	6	10	4845	10	67	94005	129	602	461278	137
December	137	146382	146	420	317163	9	1557	463546	77	267094	5	6	2692	5	55	99792	5	11	410	369579
January 1865	147	93967	72	699	546650	77	846	640617	149	511345	15	6	191	149	80	47826	10	5	708	559364
February	138	81253	61	365	259530	12	503	340784	2	273267	13	10	18362	6	5	27279	8	3	477	318909
March	26	21874	6	623	526204	9	5649	528078	15	487188	4	11	3907	13	24	44750	133	626	535846	152
April	23	12232	3	509	407663	10	532	419895	10	348317	7	10	28531	14	5	9771	4	488	386620	103

Total — 2322 1856738 277501 6930773 219823 879050 6486761 5571594 135202 810581 132 499 579174 3107462 6901350 1452361 1889155 63

Office of the Controller of P.W. Accounts
Havre 16 June 1865

Captain P.E.
Controller of P.W. Accounts

Ends in a letter from
Cuthbert to Mr. Bennett
to the day of the 15th of
May 1857

1857/2 22 30/45
1857

Report of Audit of the Bill Branch in the Office of the Controller of Public Works. Accounts from May 1864 to April 1865

	Bills remaining on the 1st of each month during the year—		Bills received during the year.		Total	Bills passed	Bills recommended to Government	Bills objected to	Total	Bills remaining on the 1st of each month.																
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17									
May 1864																										
June	23	26635	3	112	66732	122	135	93367	125	33	39196	210	1	4000	"	1	236	138	25	43433	"	6	23	26635	"	3
July	91	46035	81	111	131903	123	202	177939	44	17	32537	411	6	9627	14	2	5167	141	44	47332	44	91	46035	"	81	
August	11	30420	148	108	97532	69	119	127953	55	17	116797	96	1	15000	"	11	15720	122	191	147518	58	11	30420	"	148	
September	95	67392	210	88	126537	310	183	193929	68	145	49788	55	6	10689	52	1	83	7	24	60561	17	95	67392	"	310	
October	28	67546	110	52	75034	97	80	142580	115	63	106290	148	"	"	"	10	20192	62	155	126383	410	28	67546	"	110	
November	8	13769	11	29	59174	119	37	72944	69	12	91772	1211	"	"	"	9	37038	36	72	128811	"	5	8	13769	"	11
December	21	22558	8	89	76209	128	110	98768	48	82	38235	911	"	"	"	4	12150	411	16	50385	149	21	22558	"	8	
January 1865	6	4781	38	16	20782	54	22	25563	9	7	44686	32	"	"	"	22	19300	1310	104	93987	1	6	4781	"	38	
February	14	20052	911	15	34177	51	29	54229	15	21	3511	310	"	"	"	1	1975	83	8	5486	121	14	20076	"	1211	
March	4	11891	79	98	58647	9	102	70539	"	81	37840	101	2	4180	44	2	317	810	25	42338	73	4	11891	"	79	
April	7	17862	87	13	16341	121	20	34204	48	10	43352	74	14	9324	"	10	"	"	95	52676	82	7	17862	"	87	
											14430	810	2	1513	137	4	15341	67	16	31285	13	4	2918	"	78	
Total	308	328945	127	779	833142	53	1087	1162088	110	676	648439	134	32	54334	93	67	127425	3	775	830199	97	312	331888	"	83	

Office of the Controller of
Public Works. Accounts
Madras 16 June 1865

Captain R. B.
Controller of P. W. Accounts

unemployed

Administration Report
of the Superintending Engineer, 3rd Division
for the year 1864/65.

The Imperial Allotment for each of the Districts of this Division was as follows:

	Re.	Private Contributions
Bellary	2,22,040-1-6	393-10-8
Buddapah	1,96,423- - -	972- - -
Kurnool	79,156-3-4	- - -
	<u>4,97,619-4-10</u>	

2. The aggregate outlay in the Division was as follows

	New Works	Repairs
Irrigation	37,41-5-9	83,650-10-10
Communications	73,735-0-1	173,834-0-0
Buildings	112,872-5-2	34,216-3-0

3. There have been no important New Irrigation Works carried on during the year.

Communications

4. Road from Buddapah to Kandial

Previous expenditure - Rs. 74,836-1-10

During 1864/65 there has been expended in

	Imperial Funds.	Income Tax	Total
Buddapah	9,510-4-2	- - -	9,510-4-2
Kurnool	5,990-13-0	3,336-5-2	9,327-2-2
	<u>Total in 1864/65 - 18,845-6-4</u>		

5. In the Buddapah portion the earthwork has been completed for six miles and the metalling for about four of these miles. In the Kurnool District earthwork has been done for 5 miles and gravel carted and spread in 17 miles: eight Road Dams and ten Tunnels of different sizes have been built. The work has not got on so quickly as was expected in consequence of the difficulty in procuring carts and coolies as there was a great demand by the Madras Irrigation Company who raised their rates and would have raised them even still higher if we had attempted

3-9-58-6155
1077-2200/65

Work on a letter from the
Construction of the
to the day 10 Sept 1865
by 10 miles/65-18453

attempted to compete with them.

6 Road from Buddapah to Bellary.
Expenditure to 30 April 1864. — 1,75,703-15-7.
In 1864/65 the expenditure has been

	Imperial	Income Tax	Total
Buddapah-19,999-7-10	3,769-13-1		23,769-4-11
Bellary- — — —	10,000-0-0		10,000-0-0
Total in 1864/65 —			33,769-4-11

7. In the Buddapah District the work has not progressed very well though the allotment has been nearly expended and my Predecessor recommended very unfavorably of Mr. Supervisor Laskey's management of the funds. Several miles of this road have been metalled and gravelled and a number of Tunnels and Road Dams have been built. In the Bellary District the whole of the allotment has been well expended by Mr. J. L. Wilson. the work executed was, 3 miles newly made, 5 miles metalled, 8 miles that were made last year have been metalled in this year and 13 Tunnels and 3 Road Dams have been built. The traffic on this road is very heavy at times and I would strongly urge that there should be grants this year for each portion: there is a gap between Tadpatri and Talla Poddatur which is almost impassable in the wet weather.

8 Kindy Kanama Shauk.
Previous expenditure — Rupees 51,386-3-3
In 1864/65 — — — 2,997-12-0

Karnool.

This work is nearly completed. a portion of the wing-walls of the Viaduct and the approaches remaining to be done.

9. Famous Roads in the Khadri Taluq.

Buddapah.

In May 1864 Government allotted a grant of Rupees 15,000. which amount has been expended on 80 miles of road: the whole of this distance is easily practicable for Bandies and considering the difficulty in getting water in some parts of the country has been well laid out by Major J. H. Palmer, the Executive Engineer in charge of the

Cuddapah.

10. Bridges on Trunk Road No. 1.
 Previous expenditure Rupees 6,187-10-10.
 In 1864/65 there was an allotment of Rs. 10,000, out of which, Rs. 9,997-3-0 were expended. The work done has been the completion of the Sordamatta and Ethlacharero Bridges, each of 4 arches of 36 feet span, a Bridge of one arch of 12 span and 6 Tunnels of different spans.
11. Railway Feeders.

The undermentioned roads from the Trunk Road to the Railway Stations have been sanctioned and carried out as shown:

	Amount Sanctioned	Amount expended
To Godoor Station Rs. 2,865	Rs. 2,864-15-5	
To Rajampett do — " — 2,695	— 2,692-1-6	
To Kundalore do — " — 7,312	— 1,878-3-4	

12. The first mentioned has been completed and opened for traffic: the second is in good progress and ought to be completed by July: on the third the work has been much retarded in consequence of its being carried through the wet lands in and below the Kundalore Tank. there was delay in commencing it on account of the crops.

Bellary

13. Road across Sand Drift at Moka on the line of road between Bellary and Karnool.
 There was a grant of Rs. 3,173 for this road. the work has been completed at an expenditure of Rupees 3,165-9-6.

Bellary

14. Buildings.
 Auxiliary Buildings for the Artillery.
 Previous expenditure - Rupees 42,300-15-2.
 In 1864/65 the amount expended has been Rupees 3,554-1-2-2. A Library and Reading Room for the Artillery has been completed at a total cost of Rupees 11,574-6-3, of which Rs. 7,876-5-10 have been spent in 1864/65.

A Library and Reading Room for the European Infantry has also been completed at a total cost of Rupees 12,331-8-5, of which Rs. 6,586-10-0 have been expended in 1864/65.

The remaining works are incomplete.

1865 Dec 15
 For July 22230

Amount
 The sanction of Mr. Mac
 To Mr. P. & Co. & Mr. J. C. W. D.

Date 16
 Dec 20 1865

831 1865

Submit the
 Administrative Report
 for 1864/65 with return
 on the delay in
 submission of accounts
 to the Office

1865

15 Constructing School rooms and places of worship Bellary
at Bellary and Namandroog.

Expenditure in 1864/65
for Protestants at Bellary—Rupees 4541-3-8

Roman Catholics—do—7,982-4-3

Protestants at Namandroog—do—5,066-6-4

These works have been delayed for want of wood
and I would strongly urge that a regular stock
of timber be kept up at Bellary, as it is impossible
otherwise to have good seasoned timber.

16 Cutting a channel from a ruined tank to
a Bountah in the K. S. Lines, with branch to the
tank in the Fort Ditch.

These works were originally estimated to cost
Rupees 8,000 and Rupees 1,500 respectively, but
the amounts have been found to be insufficient.
For the former a revised estimate of Rs. 15,016 has
been sanctioned and for the latter a revised estimate
is under preparation. A further sum of Rs. 9,700
has been allowed by Government for raising the
bank 1 1/2 yards and the balingulaks 1 yard. The
total expenditure on these works which may be looked
upon as one project has been Rupees 18,551-7-0
in 1864/65.

17 Constructing Masonry Drains in the K. S. Karnool.
Lines at Karnool.

The amount sanctioned is Rupees 4540,
of which the expenditure in 1864/65 was Rupees
1387-15-6: this work will be completed in a
short time.

18 Sub Collectors' bungalow at Madanapally Buddapally
Previous expenditure—Rupees 2788-13-2
In 1864/65—938-5-0

This was completed early in November and
has since then been occupied.

19 Villanupet Taluk Bungalow
The estimate for this work is Rupees 7,300.
The estimate has been spent in 1864/65.

Karnool. 20 Deputy Collectors' bungalow at Paipally
The amount sanctioned for this work
was Rupees 2,650 and it has been completed
at a cost of Rs. 2639-11-3 of this Rupees 29-6-0 was
spent in 1863/64.

Bellary 21. Taluk Bungalow at Hospett.
Previous expenditure—Rupees—6481-10-1

In 1864/65—606-1-9

This work has been completed and handed over.

22. Head Assistant Collectors' bungalow at Hospett

Previous expenditure—Rupees—496-5-3

In 1864/65—2176-3-9.

This work is nearly completed.

23. Repairs

173 Tanks repaired

12 Balingulaks—

30 Sluices—

11 Annicuts—

113 Channels—

1 Aqueduct—

1,500 Miles of Road—

58 Road Dams

149 Tunnels

192 Military Buildings

40 Revenue—do—

12 Public—do—

17 Judicial—do—

73 Ecclesiastical—do—

24. The Hongabuddra Channels have been
cleared at a cost of Rupees 14,743-4-10, in the
Administration Report for 1863/64 my Predecessor
stated that the allowance of Rupees 15,200 was in-
sufficient: a larger sum than was spent in this
year would have been expended if it had not
been for the sudden rise of the river in the middle
of April.

25 In the Administration Report for 1863/64 Bellary
a remark was made that the maintenance
allowance for roads was insufficient but no
increase was given for 1864/65 and consequently
there has been difficulty in keeping the roads
in fair order: an increased allowance has
been granted for 1865/66 and I trust to be able
to report next year that the roads are greatly
improved.

26 The rate for labor in Bellary has increased Do.
and may be attributed partly to the demand
for the Irrigation Company's work and partly to the
high prices of grain &c. which are double of what
they were a few years ago. The Government have
granted rice money to the troops and Arsenal Lascars
at the rate of nearly 3 Rupees per head but no increase
has been allowed to any member of this Department:
the consequence is that it is difficult to procure a
good man on the pay allowed by Government for the
Overseers' Lascars & for the greater part of those attached
to my Office.

27 The same remarks hold good in Karnool Karnool
and the price of Bandy hire has increased

28 In the parts of Buddapah bordering on the Buddapah
Karnool District the rates for labor and cart hire
have increased about 20 Percent: this may be at-
tributed to the demand for the Irrigation Company
and to their having raised their rates in order
to collect more work people.

29 The past season was unfavorable in Bellary
and parts of Buddapah and Karnool - in the former
there was a heavy of about 8 inches in June, but after
that there was very little. In the middle of April
there was a good fall of rain which as far as I
hear has extended over the greater part of the
Division.

30 The Company of Sappers and Miners have ✓

afforded great aid and Lieut. Pennefather
speaks highly of the intelligence of Non Com-
missioned Officers attached to the Company.

31 Petty contracts have been carried on in
the greater part of the Division, but no person
has come forward for any large work. In part
of Buddapah District the Village Reddies
have done the repairs of their Tanks on contract
and generally in a ^{very} satisfactory manner

32 In the Pennakonda Range of the
Bellary District great difficulty is experienced
in procuring labor and carts, and materials are
generally conveyed on buffaloes and donkeys.

33 The Wudders and coolies fight hard
to get advances and as the Ryots give ad-
vances in grain they can generally command
the market.

A. S. Wilby Captain R.E.
Supt. Engineer
3rd Division.

Supg. Engineer's Office
3rd Division Bellary
15th May 1865.

1st of the day:
 Engineer 3rd Division
 the year 1864/65

2nd of the day:
 Engineer 3rd Division
 the year 1864/65

3rd of the day:
 Engineer 3rd Division
 the year 1864/65

4th of the day:
 Engineer 3rd Division
 the year 1864/65

5th of the day:
 Engineer 3rd Division
 the year 1864/65

Statement showing the Officers and Subordinates who distinguished themselves in
 the 3rd Division during the year 1864/65.

Name and Rank	Grade in the Depart- ment	Remarks
Major J. H. Palmer	Executive Engineer 3rd grade	For zeal and diligence and careful manner in which all his accounts &c have been submitted
A. L. Wilson Engineer C. E.	Assistant Engineer 2nd class	For great diligence

Supy. Engineers Office 3rd
 Bellary 10th May 1865

A. D. Wilson Captain R.E.
 Supy. Engineer 3rd Division

of Station and Library
the Officers of the
the they marked themselves
in the 3rd Division during
the year 1864, 1865.

90772200/00

Charters 15th
Road 1st May 1865.

from
the City of New York
to
the Secretary of State
18th. 1865

of funds have upon New York during the year 1864, 1865.

District	Building	Kind Building	Appropriated	Construction	Other Classes	Public	Department	Other
Bellary	82,043-6-6	11,655-1-7	1517-1-1	3,147-3-9	.	.	.	98,362-11-10
Canada Park	.	8,725-6-5	2,063-5-9	6,446-8-1	.	.	.	71,235-4-3
Harriet	1,391-2-10	6,057-3-10	161-1-1	10,121-4-3	.	.	.	20,750-10-11
W. A. C.	86,131-9-4	2,643-7-10	3,741-5-9	7,373-1-1	.	.	.	19,034-8-11-1

Superintending Engineers Office
Bellary 5th June 1865.

A. A. A. A.

Superintending Engineer
3rd Division

Expenses upon new Works during the year 1864/65.

1 & B

1877 2203/65

Bates 5th since 1865
Reams

1st Reelending 6400
1877

10.

1st Reelending 6400
3rd Reelending

From

3 1/2

CB

Expenses upon Repairs during the year 1864/65.

District	Chilbury	Knill	Swilings	Agnewthorpe	Reynolds	Chiseldon	Public	Chilbury	Remarks
W. Hillary	27,635-3-5	3,327-5-2	38,551-1-4	55,710-1-3	125,223-10-2				
Quarndon	248-10-	1,043-11	29,975-5-3	82,050-8-8	113,317-8-10				
W. Hillary	199-1-9	1,762-13-9	15,124-5-3	36,073-6-1	53,159-10-10				
Total.	28,082-15-2	6,133-3-10	83,650-10-10	173,834-11-1	2,91,700-13-10				

A. D. Hillary
Superintending Engineer
3rd Division

Superintending Engineer
Chilbury 5th June 1865.

From

W. H. P. Rogers

13th

20

W. H. P. Rogers

13th

Oct 5th - June 1886

Received

1000 22 00/65

B

Expenditure upon repairs
during the year 1884/85

Expenditure from Income Tax Funds during the years 1864/65.

Estimate	Number & date of Sanction	Expenditure up to 30 th April of the previous year	Expenditure in current year
----------	---------------------------	---	-----------------------------

Demands showing by me made.
upon such works as are not noticed
in the report & have by any, be found
from Congress allotment.

Contract

Notto

Commence

Street Glass Road from Pallany to Buddala

Paid for tier — 102.200 L. 0.174 Paid 8 May 1865 — 23.400 — — — 10.000 — — —

Board from Montclair to Washington — 39910 L. O. 2131 dated 5th February/62 2748 — 999-9-4

Salary of last Period	100	Emergent	"
-----------------------	-----	----------	---

The Hatter this Road was partly covered
and so that the Pantheism had safety.
Sunday before yesterday

Read from budapest to the Bollay family 10.6.81 L.A. 23195 of stem den 186. 9999-2-

D. — — — — — was Spalding
to William Farmer 5.30 to A.M. of Aug 1862 — 19.24.6.

1 Bridge of a Rail of a feet, removed in Aug 1863
 1 ————— 1863 ————— 1863
 1 ————— 1863 ————— 1863

3255 1/2 byds. Eastport Section -

L76869²₂ mds: Metalated-

5281 bids. Dr Aug -

1790 Proctor's Farming

Sunday Sep 20 - 1864

Read on the Sabbath

Goodnight, Good-

96-5-4

Road from Newell to Chaguanay— 6000 £. 0. 10. 0 23. July 1862— 11500— 9— 11— 2336— 15— 2
 Bridging the Road from
 Burnmoor to Colling— 23370 £. 0. 9. 1 25. Oct 1864— 18723— 10— 1888— 12— 6
 1857 12 30

4 of the Bridges and a Road 2 and 1/2

Remained in hospital during

Year 1863/64 And a new Year
were completed in this year.

Kurnob.

budapest.

Bellary.

Supdy: Engineer Office
 P O Box 51 Jan 18 65




From
The Supdy. Engineer
3^d Division

To
The Secretary to Government
P. H. Department

Dated 5th June 1865.

2072282/55

Expenditure from Income Tax
Funds during the year 1864/65

Revenue Division
Administration Report
for 1864/65.

Imperial Allotment.
Misthab District.

Original Allotment as per
 Budget of 1864/65 276,852

Amount sanctioned in G.O. No. 381
 of 8th February 1864. 7000

D ^o	D ^o	D ^o	No. 1298 of 6 th May 1864	5475
D ^o	D ^o	D ^o	No. 1400 of 13 th D ^o	46804
D ^o	D ^o	D ^o	No. 1570 of 30 th D ^o	4670
D ^o	D ^o	D ^o	No. 1716 of 13 th June 1864	5120
D ^o	D ^o	D ^o	No. 1941 of 4 th July 1864	12853
D ^o	D ^o	D ^o	No. 2261 of 8 th August 1864	160
D ^o	D ^o	D ^o	No. 2286 of 9 th D ^o	166
D ^o	D ^o	D ^o	No. 3580 of 15 th Dec ^r 1864	3528
D ^o	D ^o	D ^o	No. 3929 of 10 th February 1865	3694
D ^o	D ^o	D ^o	No. 555 of 27 th D ^o	13468
D ^o	D ^o	D ^o	No. 763 of 18 th March 1865	4000
D ^o	D ^o	D ^o	No. 791 of 21 st D ^o	60371
D ^o	D ^o	D ^o	No. 961 of 8 th April 1865	500
D ^o	D ^o	D ^o	No. 1019 of 12 th D ^o	12
D ^o	D ^o	D ^o	No. 1082 of 24 th D ^o	720
D ^o	D ^o	D ^o	No. 1160 of 29 th D ^o	263
				4,45,728

Debet Amount transferred
 to Nellore District Treas.
 G.O. No. 2360 of 18th August 1864. 1948

Net allotment for
 Misthab District.
 brought forward. 4,43,780

Ex-
 The Secretary to Govt.
 1864/65

4177 2233/05

Recd 5th June 1865

The Secretary to Govt.
 1864/65

The Secretary to Govt.
 1864/65

The Secretary to Govt.
 1864/65

Brought Over. 443780
 Expenditure in 1864/65 420196
 Do by Civil Officers 9517
 Supply of Tools & Stores. 4537
 434250
 Money off to Profit
 & loss as per L.O.
 No. 3661 of 21st December 1864 } 249
 Advances for building
 Materials &c. 4162
 438661
 Balance remaining
 unexpended - 5119.

Kellose District.
 Original allotment as per
 Budget of 1864/65. 173600
 Amount sanctioned in L.O.
 No. 301 of 8th February 1864. 4000
 Do Do Do No. 1428 of 17th May 1864. 920
 Do Do Do No. 1481 of 20th Do 2700
 Do Do Do No. 1606 of 22nd June " 915
 Do Do Do No. 1716 of 16th Do 5000
 Do Do Do No. 1844 of 24th Do 3400
 Do Do Do No. 1941 of 4th July " 19900
 Do Do Do No. 2005 of 12th Do 5000
 Do Do Do No. 2273 of 8th August 1864 1500
 Do Do Do No. 2360 of 18th Do 1940
 Do Do Do No. 791 of 21st March 1865 5300
 Do Do Do No. 1082 of 24th April 1865 1500
 225771

Deeruct
 Amount transferred to Kistia
 Dist. No. L.O. No. 2286.
 of 9th August 1864. 166
 166 225771

Brought Over 100 225771
 Amount transferred to 4th
 Division No. L.O. No. 2738 2400
 of 20th September 1864.
 Do Do to Tichonopolz
 No. L.O. No. 2947 of 13th October 1864. 10000
 Do Do to Kistia District
 No. L.O. No. 3580 of 15th Dec^r 1864. 3523
 Do Do to other Divisions
 No. L.O. No. 555 of 27th Feb^r 65. 30000
 Do Do to Kistia District
 No. L.O. No. 1160 of 29th April 1865. 260
 46349
 Expenditure in 1864/65. 169235
 Do by Civil Officers. 4550
 Supply of Tools & Stores. 4808.
 178593.
 Balance remaining unexpended. 829.

2. A sum of 500 Rupees was collected from the inhabitants of Gunter being a part of 2500 Rs. contributed by them for the restoration of Gunter Red Tank for drinking purposes. and the whole amount so collected was expended for the purpose intended during the year.

Civil Buildings.
 3. Talig Cutcherry at Rapilly.
 Kistia
 No. L.O. No. 2110.
 of 13th March 1865. Materials were collected when it

was stopped for want of funds in March.

4. Salig Catchery at Ougole.
Framation and basement laid.
Doors and windows prepared.

K. More.
Est. Rs 10534
G.O. No 3499 dated
30 November 1853
and No 1794 of 21st
June 1854.

Agricultural

5. Nizampatam Canal - opened
out to its full length in February
last. Calingala to regulate supply
of last reach nearly completed.
Some of the banks still require
raising to proper section. The total
work was much delayed owing
to the Cyclone, but will be ready
for opening in June or July. The
entire work will be finished in
1865/66.

Kistiah
Est. Rs 270214
G.O. No 220 dated
20 February 1854
No 2009 of 30 October
1856 No 1832 of 5th
October 1861. No 986
of 11th May 1860.
and No 50 of 9th
January 1863.

6. Channel from Mulla Thapuram
to Tide water. The widening of this
channel has progressed fairly.
The side channels between Kollur
and Rapilly have been finished.
The Vellatir side channel head sluice
has been constructed and made
use of, and the Kollur sluice completed.
The Kollur Calingala would have
been built during the year; but
the scarcity of labor produced by
the hurricane necessitated its
postponement. Materials are
collected for it and for the Battipole
Calingala.

Kistiah
Est. Rs 139700
G.O. No 1405 dated
12th August 1856.
and Est. Rs 6779
No 3232 of 6th
November 1863.

2

Kistiah
Est. Rs 259826
G.O. No 2109 dated
12th November 1856
and No 1407 of 3rd
July 1860.

7. Channel from Pullairi near
Weyoor to Canal Basin at Masulipatan.
Work finished but terribly damaged
by the Cyclone.

Kistiah
Est. Rs 209200
G.O. No 1376 dated
17 June 1862.
and No 21344.

8. Enlarging the head of Inai Channel
from Seetavagram to Duggeralla.
This work has continued but not
made so much progress as was
expected owing to scarcity of labor.

Kistiah
Est. Rs 98710
G.O. No 3028
of 17 December
1862 and No 126
of 16 January 1863.

9. Widening lower portion of Pillairi
Channel. The Lock and bridge
over Calingala at Coimbar have
been finished. Calingala at end
of Bantunilly Channel not commenced.
The Polerazh Kosi combination is
finished. Chejirucottab Channel
nearly completed. Panavari Channel
2/3rd completed. Chitram Channel
4/5th completed but to bring it into
use, the other 1/5th must be done
at once.

Kistiah
Est. Rs 27000
G.O. No 3381
of 19 November
1863.

10. 1st Class Lock at Duggeralla.
Some material has been collected
and the foundation dug 3 feet. also
the Lock Channel dug. It may be
postponed till more funds are
available.

Kistiah
Est. Rs 10570
G.O. No 3662
of 11 December
1863.

11. Improving Munnungby Drainage
Channel and constructing an under
tunnel. Earthwork was progressing
well when it was stopped for
want of funds. In foundations

for under Tunnel at Butteprole.
Much difficulty was experienced
from the springs and bad soil.
They have now been laid and the work
is built up about 1 1/2 yard high.

12. Kommanoor Channel. The Nistiah
improvements for 10 Miles are made Date R. 185460
in a substantial manner. 7 1/4 Miles G.O. No 3699
of Channel has been dug to full of 15 December
section and 3 1/2 Miles to full width 1863.
and one yard depth and 2 1/2 Miles
of Channel previously made, have
been enlarged to full section.
Irrigation Channels are now very
necessary to bring the portion
executed of this project into
full operation. An escape at the
terminus of the channel has been
constructed in a substantial
manner as well as other masonry
works.

13. Channel from Antumarris
to Sultanagram Bridge. Begun Nistiah
after the hurricane for conveyance G.O. No 3945
of good water to Masulipatam. of 8 December
and finished. As it will supply Rs 14000 submitted
about 2000 Acres of land eventu- for sanction
ally, it is classed as an "Agricultural" with letter No 6
work, but no irrigation sluices dated 8 May 1865.
have yet been constructed.

Nellore
Date R. 92630
G.O. No 360
of 17 February 1860.
No 1071 of 29 June
1860 and No 2943
of 28 December
1862.

Nellore
Date R. 27100
G.O. No 943
of 15 May
1861.

14. Surmaipilly Channel. has been
very nearly completed.

15. Improving the Sour Kodir branch
of Jafferabad Channel. has
been very nearly finished; a
small balance remains to be
expended on 4 Irrigation sluices,
and approaches to Dams.

Communications.

Nistiah
Date R. 26077
G.O. No 1179
of 19 May 1863.

16. Trunk Road from Sectanagram
to Guntur. 10 1/2 Miles completed and
opened for traffic. 6 Masonry dams
of 36' each, 1 of 110' and 1 of 80'
completed.

Nistiah
Date R. 11900
G.O. No 3381
of 19 November
1863.

17. Constructing a Bridge across
the Kommanoor Channel near
Chukole. Foundations laid - piers
and abutments commenced.

Nistiah
Date R. 14100
G.O. No 1027
of 19 April
1865.

18. Sultanagram Bridge on
Masulipatam and Hyderabad
Road. was completely destroyed
during the Cyclone. A new bridge
is in course of erection, and
completed to within 18" of the
springing of the arches.

19. Drunk Road No. 6. About $1\frac{2}{3}$ miles of the Road Subhantment across the Musunur Valley has been completed. About 600 yards remain to be done and the Bridges to be built. A good deal has been done near Ongole but 2 miles of bad portions are still untouched. The road throughout the District is with these exceptions in good order.

Kellore
 Date No. 117113
 G.O. No. 200 of 2
 May 1854.
 Estimate No. 102350
 G.O. No. 1405 of 12
 August 1856 and
 No. 1621 of 32
 June 1864.
 Estimate No. 62630
 G.O. No. 1152 of 22
 April 1864.

Miscellaneous Public Improvements.

20. Good water Channel from Sultanpura Bridge to Robertson's Bhatta. As a temporary measure an open earthen channel has been made terminating in a tank about $\frac{3}{4}$ of a mile from the bridge. It has been of the utmost utility in preserving the health of the town.

Kistna
 Date 18080
 submitted for
 sanction in
 letter No. 6 of 6
 May 1865.

Repairs.

21 Number of Irrigation works which have been repaired during the year.

Kistna.

Tanks	172	✓
Main Channels	9	✓
Branch Channels	103	✓

Rocks	100
Sluices	9
Calingalaks	45
Outlets	10
Outlets	1
Drainage Channels	24

Kellore

Tanks	47
Main Channels	5
Branch Channels	3
Locks	"
Sluices	6
Calingalaks	6
Outlets	1
Drainage Channels	0

22. Number of Miles of Road and Navigable Canals kept in order during the year.

Kistna

Road from Masulipatam to Hyderabad frontier.	114½
Drunk Road No 6 from Pithid to Subole	80
Drunk Road No 7 from Koppa: past towards Progu B.	42
Road from Pannurri to Gudem	8
Canal from Bezorah to Masulipatam	48
Canal from D. to Pithid.	26
Canal from Sultanpura to Kizampatam	40

Mellore

Trunk Road from Sukole to Arambur	149
Trunk Road from Ongole to Kappurapatam	19
Dorenal Road	56
Kapur Road	31
Dugazupatam Road	24
Shapilly Road	4½
Cumbum Road	45
Ongole & Kottapattam Road	8
	<u>3612</u>

23. Number of Civil Buildings maintained in repair.	
Vistia	60
Mellore	21

24. Number of Military Buildings maintained in repair.	
Vistia	11
Mellore	0

25. Extensive repairs have been
necessitated by the Crebues in
renewing banks of channels.
The amount expended on each
principal channel is as follows.

	Rs.
Masulipatam Canal and Minor branches.	52710
Mellore Canal and Dr.	9756
Purva Canal and Dr.	8499
Pallairi and Dr.	12640
Muzupatam Canal and Dr.	14102
Protem Bank Ch. & Dr.	3381
Gummanoor Ch. & Dr.	6754
	<u>102842</u>

of which the amount of Rupees
41400 was spent in clearance.
The latter charge will yearly increase
as the extent of irrigated land.
The total acreage under wet cultivation
being about 180,000 Acres, it appears
that the silt clearance cost the
state 3-8 per acre.

26. The cost of repairs to the Vistia
amounted to Rupees 13011-

27. The rates of labor and material
have increased in nearly every
range. The demands for cotton
has mainly caused this; but
the loss of life by the Crebue and
the immense demand for laborers
to repair the houses in Masulipatam
and its vicinity have in the eastern
parts of the Vistia District raised
the hire of Artizans nearly 50 per cent.
It is to be expected that they will
decrease after a time, though
not to the rates formerly current.

28. The Workshops at Bezorah
and Mellore have been in operation
but no special work deserving
of notice, has been turned out.
Lock gates, sluice shutters, doors
windows &c. have been the principal
articles made up.

29. The traffic on the Canals
steadily increased until the hurricane
when many boats were sunk.

and a great blow given to trade.
The number of licenses issued
and receipts thereon were as
follows.

	No. of Licenses	Receipts.
From November 1863 to December 1864.	156.	Rs. 6282
From January to March 1865.	123.	Rs. 4195

The value of traffic on the principal
canals compared with that for
1863/64 is as follows.

	Ellore Canal.		Masulipatam Canal		Nizampatam Canal	
	1863/64	1864/65.	1863/64	1864/65.	1863/64	1864/65.
From June to 31st October 1864.	11,63,329	15,58,804	13,14,423	11,05,922	10,618	18,190
From Novem- ber 1864 to March 1865.	7,84,944	7,09,824	10,23,312	4,76,673	35,735	19,258
Total.	19,48,273	22,68,628	23,37,735	15,82,595	46,353	37,448
	Increase 3,19,455		Decrease 7,55,140		Decrease 8,909.	

The decrease in the traffic on the
Bunder Canal from June to October
is to be attributed to many of the
boats being employed carrying
cotton to Cocanada by the Ellore
Canal route.

30. The season was very favorable
one. Crops were flourishing
the supply of water abundant.

4/
till the hurricane, and sea inundation
came and did enormous damage
for which remissions, amounting
however to Rupees 2,20,000 for land
watered by the Krishna in the delta
have been given by the Collector.
Though a remission of about
5,20,000 Rupees has been granted
for land inundated by the sea,
which ~~however~~ was not generally
an irrigated tract. Both the
Collectors of Krishna and Kolleru
are as yet unable to furnish
me with correct returns of the
actual revenue derived from the
River channels, but when received
they will be duly forwarded to
Government.

+
Krishna Rs. 5119
Kolleru - 829

31. The unexpended balance being
comparatively small, remarks
on its cause are scarcely needed;
but it is to be noted that there was
scarcity of labor owing to loss
of life in the Cyclone, in the
Krishna District.

Supr Engineer's Office D.D.
Masulipatam
13th May 1865

Cert. Misra, Secy
Supr Engineer D.D.

L.H.
Secy

1865
No 2236

To the
The Supr Engineer
D.D.

The Secretary to
Government W.

Dated 13th May 1865
Recd 20 June

B. 4. 1

Administration
Report of the D.D.
for 1865/66

Expenditure from Income Tax Funds, during the year 1864-65.

Remarks showing progress made upon such works as are not noticed in the Report. And sums (if any) expended from Imperial allotment.

District	Work	Estimate	Expenditure up to 30 th April of the previous year.	Expenditure in current year.	Remarks
Agricultural	Drainage Channels in the Town and Station of Maunipatam.	5040	4040 2866	140 Dec 1862	966 1/2 mile of the Channel Completed.
	Improving & strengthening the Eastern Embankment of the River from Yamamala cut down to Proprietary Communications.	56910	4040 2408	23 Dec 1862	2053 2 1/2 miles of the Embankment raised to full height during the year.
	Road from Suggiaipattam joining Pongdara built road	35740	4040 3590	15 Dec 1862	277 2nd 2000 ft. of road made during the year.
	Approaching from the sea to Maunipatam Fort.	1242	0	0	1079 Completed.
	Road from Pongdara to Maunipatam.	11230	4040 125	4 Feb 1862	344 20
	Two Bridges across side channel	1530	4040 3590	15 Dec 1862	495 2000 ft. of bridge walls 1 1/2 built to level of spring of water.
	Wyanpattam Canal on the road from Pongdara to Maunipatam.	1720	0	0	773 Arch. Completed.
	Improving Madras and Maunipatam Coast Road	4580	4040 3248	9 Nov 1862	353 1/2 miles of road Completed. One bridge built & materials collected for other necessary work.
	Constructing Bridge across Sandavole drainage Channel on the road from Pongdara to Maunipatam.	1170	0	0	1132 Completed.
					10656

Agricultural	Constructing an Embankment along the right bank of the River Maunipatam	13450	4040 1835	5 Dec 1861	1919 Embankment finished as far as Andover types Chalm.
	Communications	101000	4040 3284	8 Feb 1862	7637 1 1/2 miles of road Completed. 22 miles of side drains excavated & 2 tunnels built.
	Putting into thorough repairs a portion of Maunipatam Road from 49 th to 95 th mile.	43714	4040 1182	11 Feb 1862	3114 Slight repairs were executed, work stop. that money might be appropriated to more urgent work.
	Repairing 9 Wells tunnel on Maunipatam Road near 49 th mile.	390	4040 1244	29 Sept 1862	367 Completed.
					12,237

Superintendent Engineer's Office.
 2nd Div. Maunipatam.
 19 May 1865.
 C. G. M. S.
 Superintendent Engineer.

From
The Infants of
27th Dec
to the Secretary to Govt
D. P. 18.
Dec 13th } Aug 1865
Recd.

22nd 22nd 22nd 22nd

L.

Expenditure from
the year 1864 - 65 -
to Accompany the
Administration of
the 27th Dec for 1864 - 65

D.
Expenditure from District Road, &c. Funds, during the year 1864-65.

District	Particulars	Amount Expended	Remarks regarding Proposals made towards completion.
----------	-------------	--------------------	---

<u>Communications</u>			
	Pathar Road from small siding Channell Bridge to Jagerlamooty.	399	
	Graveling portion of Gunthar & Muzumbar road from Vellathur to Ponnir	675	Completed.
	Road along the south bank of Pyroo Canal	1510	Nearly Completed.
	Constructing retaining wall to Thongosoor Bridge.	579	Completed
	<u>Repairs.</u>	8726	
		<u>11889</u>	

<u>Communications.</u>			
	Pathar Gungapattam & Murpandir road to the beach.	477	420 Rs. 9 p. of road made & materials collected.
	Road from Kellur to Kunkur De. from Karayana ready path to Kunkur	1572	10 masonry works completed & 6 miles of road finished.
	Toll House at Pathar	109	Bricks burned
	Mloor & Vellapully road	477	Completed.
	Palagery, Jalandunthay & Paval road.	3335	One mile completed & 5 mounds built.
	Road from Palagery near Ponnul to Singaray and all to the coast of Orlappathur	33	Single cleared to a distance of 4 miles.
	Road from Dornal road to Sadyagery	8257	17 miles of road completed with the exception of masonry works.
	Langam and Paligery Road.	1128	13 miles of road killed.
	Road from Somaswarum to Kellur	1099	4 1/2 miles of side Drains excavated.
	<u>Repairs.</u>	258	14 miles of Sing. C. cleared.
		3583	
		<u>20323</u>	

Superintd. Engrs. Office.
2nd Div. (Muzumbar) Pathar
13 May 1865. E. H. D. S.

Attest
Inspector. J. S. Samuel Esq.
2nd Div. 2nd Div.

From
the Infantry. Capt.
2^d Regt.
to the Secretary to Govt.
D. P. W.
Chas. W.
Placed 13th } May 1885
Dec.

May 22 23/63

Q.

Expenditure from
Disbursd Fund & Funds
during the year 1884-85
to accompany the
Administration of the
Act 2^d Regt. for 1884-85.

3-7-1885

360, 1071 &
 2943 at 49-
 14 92630 17th Feb 1886 78652 13030 " 8683 " 8689 "

Atli's New Book from paper -
 -article to be printed by
 Daniel _____

Or Improving Eadi's Collar branch
 of Pafferswick Channel - 15 27100 943-15th Aug 1881 19737 7248 " 2489 " 2453

Communications

From R. Rand at 6 from
 16 26077 1179-9th Nov 1883 11676 5000 " 7000 " 6342

Or Constructing a Bridge
 across Commanor Channel 17 11900 3381 19th Nov 63 420 5009 " 4762 " 5588
 near Chabote. _____

Or Reconstructing the 18th =
 =magaram Bridge - 18 14100 19th April 65 " 6000 " 9400 " 9056

Atli's Summit Road at 6 - 117113 200-23 Aug 101021 8580 " 13302 " 10289

Masonry works - 19 102350 1405th 1821 12th Feb 1887 60837 8000 " 10520 " 10415
 Summit Road at 6 magaram
 1152
 68630 22nd April 1891 8000 " 10000 " 10007

Miscellaneous Communications.

From Eadi's Collar branch
 from Eadi's Collar branch
 Bridge to Chabote's
 Collar _____ 20 3945 " 4800 " 3000 " 2524

Engineer's Office.
 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

Engineer's Office.
 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

Engineer's Office.
 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

From
 The Superintg. Engrs
 2^d Div
 to the Secretary to Govt
 D.P.W.
 Madras
 Dated 13th May 1865.
 Recd. May 22 1865

E.
 Statement showing
 the sum of money
 in the Administration
 Report for the year
 1864-65. to accom-
 -pany the Administra-
 -tion Report of the 2^d Div.
 for 1864-65.

Expenditure upon New Works, during the year 1864-65.

District	Military	Civil	Buildings	Agricultural	Communi- -cation	Miscellaneous	Total	Remarks
----------	----------	-------	-----------	--------------	---------------------	---------------	-------	---------

Pistna.	622	6453	168445	24873	7704	208097		
		9517						
		1597						
Madras	"	6260	34843	57044	"	98147		
		6550						
		10810						

208097
 98147
 6550
 10810
 208097
 98147
 6550
 10810

Superintending Engrs Office
 2^d Div
 Madras
 13th May 1865.

W. H. C. d. P.
 (Signature)

W. H. C. d. P.
 Superintending Engrs 2^d Div
 Madras

31-7-65-67

27294 for 1864-65.
-franklin Adams of the
-company the Adminis-
-tration during the
year 1864-65. to be
Oftentimes upon

A. & C.

March 13th }
Dec. } May 1865

the Superintendent of
the Secretary to Govt.
D. P. W.

Expenditure upon Repairs, during the year 1864-65.

District Military Civil
Buildings Agricultural - Commercial - Public - Total
Miscellaneous

Footma.	795	6210	162552	43026	16	212549
Nothing		1402	26261	43425		71088

Superintendent Engineer's Office
2nd Div
May 1865
L. B. C. P.
at
Commissioner of Public Works
Superintendent Engineer's Office
2nd Div

No 146

Supt: Engrs Office 6th Div.
 Tanjore 19th May 1865

From,

Captain R. F. Baker RE
 As: Supt: Engineer 6th Div.

To,

Colonel C. A. Dyer RE
 Secretary to Government
 Public Works Department

Sir,

With reference to Memo. No 74 of the 5th March last I have the honor to submit for the information of Government the Annual Report for 1864/65 of the operations of the Public Works of the 6th Division compiled principally from the Office records and Range Officer reports. I have no alternative left but to adopt this course in the present instance as I only joined the Division at the termination of the official year. The allotment for each District for the period under review is as particularized below.

Trichinopoly

Public Works -

Military	84960	— " —
Civil Buildings	18634	— " —
Agricultural	10652	— " —
Communications	6021	— " —
As: Public Improvement	"	— " —
Total	120267	— " —

Encls: 5

Done

Received
 The Honble Mr. Baker
 As: Supt: Engineer 6th Div.
 Tanjore
 Dated 13th May 1865
 Dec.
 B.
 Extra duty upon
 Mr. Baker's, during the
 year 1864 - 65.
 As: Accounting Officer
 Administration Office
 of the 6th Div. for 1864-65

Trichinopoly continued

Military	6136	"	"	Repairs
Civil Buildings	2210	"	"	
Agricultural	88000	"	"	
Communications	66365	"	"	
Mis: Public Improvements	"	"	"	
Total	162711	"	"	

Tanjore

Military	"	"	"	New Works
Civil Buildings	6315	"	"	
Agricultural	25977	5	1	
Communications	21681	7	3	
Mis: Public Improvements	"	"	"	
Total	53973	12	4	

Military	"	"	"	Repairs
Civil Buildings	9947	14	1	
Agricultural	129402	"	"	
Communications	77994	7	2	
Mis: Public Improvements	2196	14	5	
Total	219541	3	8	

2— There have been no contributions made by private Individuals for Public works undertaken by Members of this

Department

Department.

Important Works

Trichinopoly 3— Constructing a wash house and Urinary for the Artillery. Estimate Rs 3500 - Commenced in June 1864 and completed with the exception of the Iron Urinals for the supply of which it was found necessary to write to Calcutta expenditure to 30th April 1865 Rupees 3283.

Trichinopoly 4— Constructing a Rocket and Fives Court for the Artillery. Estimate Rs 10580. Commenced in August 1864. Main wall raised to the full height 31 feet, side wall of Fives Court completed and of Rocket Court nearly completed expenditure up to 30th April 1865 Rs 5525.

Trichinopoly 5— Constructing 26 Family Quarters for the Artillery. Estimate Rs 16800. Commenced December 1864 One block of Quarters completed also two wash houses, two Cook rooms and one Privy. The other block is in rapid progress - Expenditure to 30th April 1865 Rupees 12,625.

In Govt Order. No 491 of the 18th February 1865 the Government desired to be informed

informed whether at their present stage of progress these buildings could not be constructed on the same plan as those adopted for the new Barracks at Bangalore. Col: Greenaway in letter No 2655 dated 4th March stated that the work was too far advanced to admit of the change but submitted another plan shewing the position of the Court yard and Offices this alteration has been approved of in G.O. No 1079 dated 24th April 1865 and the plan and Estimate (will be shortly submitted).

6—Constructing Magazine for the Artillery. Estimate Rs 3240. Commenced in November 1864 work completed with the exception of Lightning Conductor. expenditure up to 30th April 1865 Rs 3010. Trichinopoly

7—Constructing a Grand Magazine. Estimate Rs 20,000, commenced in March 1864, this work has also been completed but the Lightning Conductor has not been provided. Copper wire rope for the Conductor has twice been indentured for and there appears to be none in store. Expenditure up to 30th April 1865 Rs 20,717 including Rs 3945

spent in the previous year.

Civil Buildings

Trichinopoly 8—Alterations to the old jail in the Fort to convert it into a Lunatic Asylum. Estimate Rs 11,980. Commenced in June 1864 - the work has been completed with the exception of the garden which is to be formed by convict labor some minor drainage works which were not provided for in the original Estimate are required they will be carried out without exceeding the Estimate. Rupees 10,564, have been spent up to 30th April 1865 including Rs 1999 spent the year before the building appears to provide for every thing necessary for the health accommodation and safe custody of 63 patients.

Agricultural

Trichinopoly 9—Extending Calingulad in the south bank of Weyacandan in the limits of Sholamadavy. Estimate Rs 4760. Completed. expenditure up to 30th April 1865 Rs 4329 including Rs 598 spent in previous year. the extension was necessary to provide for increased waterway for the passage of

flood waters as reported by Col: Toond
in his letter No 1394 of the 21st December 1863.

10—Extending Calingula in the left Trichinopoly
bank of the Corallay channel in
Teroovamboor limits. Estimate Rs 3170
Completed. Expenditure up to 30th April
1865 Rs 2870 including Rs 304 spent
in the previous year.

11—Extending Culvaroyen Calingula Trichinopoly
in the limits of Sholamadavy. Estimate
Rs 2900, work completed Rs 2274 spent
up to April 1864 including Rs 348
expended in the year before. This as
well as the work mentioned previous
to it were found necessary, to prevent
the recurrence of breaches by affording
additional waterway.

12—Constructing head sluice at the head Tanjore
of Chittar in lieu of bridge on Road
No 35. Estimate Rs 4740. work completed.

Expenditure up to April 1865 Rs 4740
including Rs 3420 spent in 1863/64.
The sluice was built to regulate the quantity of water
that enters the Chittar and for the better
supply of two small channels hitherto
badly supplied by the Vettar.

13—Reconstructing fallen portion of the South Tanjore
branch

branch of the Lower Arumicut Estimate
Rs 63,000. In G.O. No 555 dated 21st
February 1865 Rs 20,000 was allotted for
this work for the past year but at the
recommendation of Col: Greenaway
this appears to have been reduced to
Rs 14,000 - the expenditure up to April 1865
amounts to Rs 19,743 - Lieut Livesay
has been solely in charge of this work
and at its early stage had great
difficulty in collecting materials and
procuring labor. The work has been
pushed on rapidly of late and is
progressing satisfactorily as reported
on the 16th Instant No 132. On the
30th April the foundation of the front
retaining wall had been carried across
the breach but there were still gaps in
the foundations of the body and the
rear retaining wall.

Communications

Trichinopoly

14—Increasing waterway of the bridges
and Culverts on the road from Trichinopoly
to Dindigul - Estimate Rs 7530. work
completed. Expenditure up to 30th April
1865 Rs 7528 including Rs 4908 spent
in previous year.

Increasing

15—Increasing roadway and constructing Trichinopoly
new bridges and Culverts on the road
from Trichinopoly to Tanjore. Estimate
Rs 12,620. Extending a bridge in the
5th mile and a six feet culvert
in the 8th mile completed. Rs 1048
spent in previous year and Rs 3270
expended during 1864/65.

16—Metalling road from Nagapattam Tanjore
Railway Station to Tanjore. Estimate
Rs 25,730. The entire length of this
road is not more than 6 miles,
five of which have been completed and
Rs 21,363 spent upto 30th April 1865
including Rs 12,886 spent in previous years.

The transfer of Rs 2000 in G. O. No 3001
of the 19th October 1864 from this work
to the Trichinopoly District, greatly
impeded its progress, the Executive
Agent is however using efforts for
completing it at an early date from
the allotment of the current year.

17—Constructing Railway feeder from Tanjore
the Station to the town of Teecovalam.
Estimate Rs 3690. This road is only
half a mile in length across paddy
land the entire length of the embankment
and

and masonry works have been completely
leaving only the metalling which it is
hoped will be finished by the end of
June next. Rs 3044 expended upto
April 1865, including Rs 151 spent in
the year previous.

Tanjore 18—Cutting Navigable Canal from
Vedarnium salt pans to the Adafar.
Estimate Rs 13,000, entire length
excavated—Rs 11,373 expended upto
April 1864 and Rs 1209 spent during
1864/65.

Tanjore 19—Cutting Junction Canal from
Nagapattam to Teroopoondy. Estimate
Rs 22,565. entire distance excavated
masonry works in progress—Expenditure
in 1863/64 Rs 6193—during 1864/65 Rs 8627
have been spent. Government was led
to suppose that if a channel of about
2 miles were excavated to connect
existing channels a navigable com-
munication would be secured for a
distance of 30 miles. this is an error,
very extensive improvements are required
to the existing channels before communi-
cation at low tides can be secured throughout the
30 Miles. The bed of one of these supposed
naturally

naturally navigable channels within 150 yards of the Bridge across the Canal is $6\frac{1}{2}'$ above the level of the floor of the Bridge and the floor is 3' below Low water and as the Spring tides rise only about $2\frac{1}{2}'$ it is clear that tidal water at High water could not now even enter the Rammanden channel. There is but little doubt that a through tidal communication can be opened out between Negapatnam and Jeroopoondy but not without a considerable outlay; a separate report on this subject will be forwarded shortly.

Repairs Agricultural

20 — Reconstructing the wing walls of the Santa Raja Vokkal Surplus Sluice of the Lower Annicut. Estimate Rupees 8400 - Expended in 1853/54 Rs 2013 during 1854/55 Rs 6149 - work completed.

With the exception of the above the other repairs to Irrigation works were of the ordinary description and call for no particular notice the expenditure has been incurred chiefly in strengthening embankments and clearing channels to

Tanjore

preserve the existing Revenue
21 — The number of Irrigation works repaired during the year is as follows.

Trichinopoly - Tanjore

Agricultural	Irrigation canals. No. of works repaired —	93	138
	Tanks ————— No. —	76	9
	Dykes ————— No. —	75	400
	Drainage ————— No. —	"	20
Communication	Roads. No. of Miles kept in repair —	292 $\frac{1}{4}$	839 $\frac{1}{2}$
	Navigational canals. No. of works repaired —	1	2
Buildings	Military. No. of buildings maintained in repair —	58	"
	Civil ————— No. —	15	34

22 — The District roads or those maintained from the discretionary allowance are for the most part in very bad order and many of them are almost impassable in wet weather. An allowance of Rs 20,000 for 427 miles of Road is insufficient to keep these Roads in good order and I regret to observe that the allowance has been reduced by about $\frac{1}{3}$ in the Budget of 1855/56. It will be necessary to have some of these Roads placed in really good order under Estimates.

Tanjore

23 — Owing to the large exports of grain from this District to Ceylon

1. Salem and Madurai prices have risen
2. very considerably during the past year
3. and the price of labor ~~has~~ has risen
4. accordingly. The introduction of the
5. Railway and the demand for labor by
6. the Railway Department has tended
7. not a little to enhance the price of
8. labor especially of skilled labor;
9. Artizans now demand more than
10. double of that which they considered
11. sufficient remuneration for their labor
12. 5 years ago. Rates in Trichinopoly
13. are still rising owing to the construction
14. of the Caroor line thro' that District.
15. It is often difficult to procure labor
16. and more so to procure carriage for
17. of Departmental purposes especially in
18. to the vicinity of the Railway.

19. 24. There are no work shops in this
20. Division.

21. 25. A Regular register of the traffic
22. the passing on the Canal from the Cauvery
23. to the Coleroon river and thence to
24. the Lalgooty to the Veeranam Tank
25. does not appear to have been kept
26. fully up during the year 1864.

27. 26. The Season has not been very

favorable rain fell plentifully in July¹¹
and October near the Coast, the fall
in August was chiefly inland. In
July extraordinary floods came down
the Cauvery and Coleroon causing
considerable damage in both Districts.
the floods at the Northern and Southern
branches of the Upper Annicut are
reported to have remained at a
level of 6' and 6' 3" for 4 or 5 days
consequently this is unusual. It
was during this Flood that the Lower
Annicut was breached.

27. — The expenditure has fallen
short of the allotment in Trichinopoly
by Rs 6079 on New Works and Rs 5512
on repairs. In Tinjore the allotment
for New Works has been exceeded by
Rs 3662, inclusive of Rs 3534 advanced
to the Superintendent of Police, this is
owing to a reduction of the allotment
for the Lower Annicut works from
Rs 20,000 to Rs 14,000 as it was not
anticipated that the work could be
pushed on so rapidly as it has been,
and it was not deemed proper to
delay the work owing to the allotment
being

*
After deducting
advances to
Superintendent
of Police Rs 3682

G.O. No 934.
5th April 1865.

being exceeded by so small a sum as it can be covered by the balance in Trichinopoly. In Tanjore the expenditure on repairs has fallen short of the allotment by Rs 27132. 28 — In many cases work has been carried out but not examined and paid for owing to the paucity of Officers in the District compared with the large number of Works necessarily in progress at the close of the Official year and this is the reason assigned for the non-expenditure of the full allotment.

29 — The following Statements accompany.

- to Statement A. Expenditure upon New Works during the year 1864/65.
- to " B. Expenditure upon Repairs during the year 1864/65.
- to " C. Expenditure from Income Tax Funds during the year 1864/65.
- to " D. Expenditure from District Road & ce Funds during the year 1864/65.
- to " E. Showing the New Works noticed in the Administration Report for the year 1864/65.

I have the honor to be
Sir,
your most obedient servant

N. F. D. K. S. Capt. R. E.
Asst. Surg. Engineer 6th D.

The amount of the
 of Public Works for
 1864-1865.

Rs. 146

Rs. 19 1/2

Rs. 146

The 1st of August

1st of August 1865

A.
 Expenditure upon the War during the year 1864/65

District	Military	Civil Buildings	Agricultural	Communication	Charitable and Public Amusements	Totals	Remarks
Bangalore	13932	31522	21206	49	10145	69	
	81474	133651	19642	5992	110501	245	
Total							164604

Supd. Engrs Office for the
 Bangalore 19th May 1865

J. J. Barker Captain R.E.
 C. of Staff Engineer 1865

27 May 1865

Expenditures in a letter
from the Asst. Engineer
of the 1st of May 1865

A.

B.

Expenditures upon repairs during the year 1864/65.

Divisions	Military	Public Buildings	Public Cultural	Public Communications	Public Improvements	Other	Total	Remarks
Engineers	"	8953	2101	16820	1044	26292	52342	105807261
Trickling	5027	52	1732	36611	96165	151	951861451	
Total	5027	52	10732	20208	10612101	11242	1096476	

Asst. Engineer Office of the
Engineers 19th May 1865

27 May 1865

W. F. Parker Captain U.S.A.
Capt. Asst. Engineer 1st Regt

121
B.

Enclosed is a letter
from my wife & son
for the 1st of Oct
19th May 1865

P. P. 1865/65

C.
Expenditure from Income Tax Funds during the year 1864/65.

151

District	Work	Estimated	Amount expended (Date of completion)	Expenditure up to 30 th Sept of the present year	Expenditure in current year	Remarks showing progress made upon each work as are not noticed in the report and also (if any) if funded from Imperial allotment.
Madras	Forming Road from Trichinopoly to Salem via Periyar	54,000	G.O. 121105 of the 12 th August 1856	21,542	10 6284	Out of the 22 miles the entire length of the new Road the first 11 miles in Range No. 1 have been completed and of the remainder which belong to Range No. 2 has been formed to the full length but the metalling and masonry works are in progress. Amount expended from Imperial funds in 1863/64 Rupees 4,837-3-5-
	Metalling road from Trichinopoly to Madurai going in the Pudukottah District Territory	13,000	G.O. 121348 of the 13 th Jan 1862	12,315	4 3 643	Completed. No work done this year for want of allotment. Amount charged to this year was paid for work done in last year vide G.O. 121256 dated 3 rd September 1864.
	Forming road from Trichinopoly to Salem and Madurai passing to its junction with Trunk road	42,600	G.O. 121105 of the 12 th August 1856	21,181	2 4 1155	Amount expended from Imperial fund 1861/62 1,146-4-10 1862/63 1,612- " - " <u>2,758-4-10</u>
					5063 4 10	

Supplinger's Office 6th Dec
Madras 19th May 1865

671/1111

A. F. Bates Captain R.E.
Adj. Sup. Engineer 6th Dec

C.

Enclature in a letter
from the High Commission
8th Dec. 1864 at
19th Dec 1865

Dr. Wm. W. W.

2

Expenditure from United States Funds during the year 1864/65.

Particulars	Amount	Remarks
<u>Repayments</u>		
Repairing Road from Sumanagar to Sivanagar	679 10 0	(Comp. lited)
" " " " " " " " " " " "	259 6 "	Do
" " " " " " " " " " " "	549 4 6	Do
" " " " " " " " " " " "	209 11 6	Do
" " " " " " " " " " " "		Do by execution of work
" " " " " " " " " " " "		work finished from
" " " " " " " " " " " "	8 11 8	ferred to the Revenue
" " " " " " " " " " " "		Department
Repairing Road from Ramlanagar to Sivanagar	349 9 3	(Comp. lited)
" " " " " " " " " " " "	159 14 "	Do
" " " " " " " " " " " "	249 10 4	Do
" " " " " " " " " " " "	96 0 8	Do
" " " " " " " " " " " "	151 9 "	Do
Total Repairs	2973 "	5
<u>Repayments</u>		
Repairing Road from Ramlanagar to Sivanagar	199 13 10	(Comp. lited)
" " " " " " " " " " " "	110 "	Do
" " " " " " " " " " " "	149 12 "	Do
" " " " " " " " " " " "	459 11 10	Do
<u>Communications</u>		
Repairing Road from Sivanagar to Sivanagar	178 12 9	(Comp. lited)
" " " " " " " " " " " "	637 6 9	Do
" " " " " " " " " " " "	217 5 6	Do
" " " " " " " " " " " "	50 13 8	Do
" " " " " " " " " " " "	78 2 11	Do
" " " " " " " " " " " "	167 5 10	Do
" " " " " " " " " " " "	150 "	Do
" " " " " " " " " " " "	1486 10 3	Do
Total Repairs	1946 6 1	

Left Long St Office for New
 York 19th May 1865



*Captain R.E.
C.H. Supple*

Edw. Dine

D.

the (1000) in a letter
from the City of
the 21st of 1865
19. May 1865 -

1000. 1865/65

E.

Statement showing the New Works noticed in the Administration Report for the year 1864/65.

District	Works	Estimated cost of the work	Estimated cost of the work	Order date	Completion date	Expenditure to the end of period of report	Original allotment for the year under report		Actual allotment for the year under report		Actual expenditure during the year under report		Remarks
							From Imperial funds	From Income Tax funds	From Imperial funds	From Income Tax funds	From Imperial funds	From Income Tax funds	
Trichinopoly	<u>New Works</u> Constructing a new house for the military and civil officers at the Fort & Trichinopoly	3300	1729 of 22	May 1864		3300			3300		3283 87		✓
	Do. Do. Do. & Trichinopoly	113 of 15	January 1864			6160			6160		5525 14		✓
	Do. Do. Do. & Trichinopoly	1075 80	1070 of 16	April 1864		13000			13000		12625 71		✓
	Do. Do. Do. & Trichinopoly	168 00	168 of 15	April 1864		3240			3240		3009 136		✓
	Do. Do. Do. & Trichinopoly	3240	168 of 15	April 1864		16055			16055		16771 19		✓
	Do. Do. Do. & Trichinopoly	25000	January 1864										✓
	Do. Do. Do. & Trichinopoly	11080	2617 of 7	January 1864		9380			8947		8565 61		✓
	Do. Do. Do. & Trichinopoly	4700	517 of 21	February 1864		4161			3661		3730 54		✓
	Do. Do. Do. & Trichinopoly	3170	74 of 11	March 1864		2866			2566		2566 135		✓
	Do. Do. Do. & Trichinopoly	2900	517 of 21	February 1864		2551			1926		1926 97		✓
	Do. Do. Do. & Trichinopoly	1530	517 of 21	February 1864		2621			2621		2619 54		✓
	Do. Do. Do. & Trichinopoly	12620	517 of 21	February 1864		3271			3271		3270 154		✓
	Do. Do. Do. & Trichinopoly	12620	517 of 21	February 1864		3271			3271		3270 154		✓
	Do. Do. Do. & Trichinopoly	12620	517 of 21	February 1864		3271			3271		3270 154		✓
Tanjore	<u>New Works</u> Constructing Head Sluice at the Head of Chittam	12740	2716 of 21	September 1864		1319 89			1319 89		1320 61		✓
	Do. Do. Do. & Chittam	63000	716 of 4	April 1865		29000			14000		19743 1		✓
	Do. Do. Do. & Chittam	25730	2884 of 22	December 1864		8456 73			8456 73		8476 124		✓
	Do. Do. Do. & Chittam	3690	1379 of 12	May 1864		3539			3539		2893 178		✓
	Do. Do. Do. & Chittam	13000	163 of 20	July 1863		1621			1621		1209 56		✓
	Do. Do. Do. & Chittam	22565	2511 of 30	November 1863		8065			8065		8126 63		✓

E.

Statement showing the New Works noticed in the Administration Report for the year 1864/65.

District	Works	Expenditure of estimated cost	Order due = during the estimation	by particular to the aid of the local fund	Original allotment for the year under report		Actual allotment for the year under report		Actual expenditure during the year under report		Remarks	
					From Imperial funds	From Income tax funds	From Imperial funds	From Income tax funds	From Imperial funds	From Income tax funds		
Tanjore	<u>Repair</u> Reconstructing the wing wall of the South Raja's victual carpalus shies of the Lower station	20	8,000	ind. 1/2 205 of the at 1800	2018	6386	"	"	6386	"	6149	"
						"	"	"	"	"	"	

Sup. Engr's Office
Tanjore 19th May 1865
E. J. Baker

M. J. Baker Captain R.E.
S. J. Engr's Office 6th Dec

From,

Colonel A. J. M. Boileau R.E.
Superintending Engineer 4th D.

To,

Colonel C. A. Orr R.E.
Secretary to Government
Public Works Dept.

Sir,

I have the honor to forward
herewith the Annual Administration
Report for the Official year 1864/65
together with the following accompaniments

- 15 Photographs
 - 2 Statements of outlay from Imperial Funds
 - 1 ——— do ——— from Income Tax
 - 1 ——— do ——— from District Road
 - 1 ——— do ——— of Educational Fund
- Important works
noticed in the Report

2. I understand that a special Report of the East Coast Canal
has been forwarded direct to Government by Mr. Fraser.

I have the honor to be
Yours Most Obedient Servant
Bureau Colonel R.E.
Sup. 9. Eng. 4th D.

E.

Enclosure in a letter
from the Sup. Engineer
to the Secy. to Govt.
13th May 1865

13th May 1865

A¹⁵ Division.

The total Imperial Allotment for this Division amounted to Rupees 12,17,119 - 11 - 11.

	New Works.	Repairs	Total.
Presidency—	3,51,440 " "	79,870 " "	4,31,310 " "
Madras—	2,29,464 7 1	26,374 7 " "	4,93,211 7 1
North Arcot—	1,68,166 4 10	12,443 2 " "	2,92,598 4 10
	7,49,070 " "	4,68,049 " "	12,17,119 " "

In addition to these sums, contributions have been received from the Zemindar of Calastry, Rupees 1600 for, making a portion of the road from Tripatty to Calastry, which passes through his Estate, and the Collector has debited in his Accounts a sum of Rupees 129 - 8 - 8 under the head of Contributions in aid of Public Works.

The aggregate outlay from Imperial Funds has been Rupees 11,63,964 - 11 - 7. Thus distributed:

	Presidency		Madras		North Arcot	
	New Works.	Repairs	New Works.	Repairs	New Works.	Repairs
1 Military—	1,19,240 6 9	33,174 5 6	80,889 2 9	22,232 4 " "	" "	2,385 13 7
2 Civil Buildings—	2,22,984 10 5	25,998 4 " "	57,732 " "	11,247 " 5	13,483 10 10	1,849 7 1
3 Agricultural—	350 " "	7,657 1 8	45,421 10 10	99,346 11 7	86,295 5 10	7,154 " 3
4 Communications—	1,414 4 1	6,763 6 10	23,915 10 4	13,186 2 3	37,301 " 1	49,982 9 2
5 Miscellaneous Public Improvements &	5,379 " 1	3,412 14 10	2,882 4 1	" " "	" " "	" " "
Total	34,93,68 5 7	77,008 1 9	2,10,841 7 3	2,64,894 14 2	13,708 9 12	12,497 14 1

Summ'd Demand
to the Officer in
charge

Section 6
Madras May 1868
362

28032231

Military.

Important original Works.

4 Improving the Drainage of Fort Saint George.

It having been decided in L. O. No. 1091 dated 16th April 1864 to let the Fort drainage be taken up, and considered as part of the general scheme being matured by Captain Tulloch Special Executive Engineer, a sum of Rupees 22890 was under L. O. No. 2258 dated 6th August 1864 transferred to the Municipal Commissioners for the extension seaward of the Main drain outside of the North East Angle of the Fort, and Rupees 2110 to the Reserve. —

Military Buildings.

Presidency Drainage of Fort Saint George.

5 Alterations to the Sea Face Batteries.

Reported last year that the salient of the North East Orillon Demi-Bastion had been rounded off and the parapets reformed. Precisely similar work was carried out this year in the South East Demi-Bastion; three Platforms with raised Iron Racer's were fixed in each work to receive 110 P^r. Armstrong guns. Ten ordinary platforms were laid down for 68 P^r. smooth bore guns, in Fort Saint George, in Clive's and in Abercrombie's Batteries. —

Presidency Sea Face Batteries.

6 Converting Casemates in North East and South East Curtains into Expense Magazines and the Flag Staff Redan into Ordnance Store Rooms. —

Presidency Ordnance Store rooms and Reserve Magazines.

By the completion of these works the Sea face Battery is now provided with efficient Expense Magazines, and suitable accommodation has been prepared for the various stores demanded for use in a heavy Battery. —

7 Family Quarters Fort Saint George

Presidency Family Quarters.

Of the four Blocks one of 2 and three of 3 — Stories, composing these buildings, in Block No. 3 the Masonry work of the lower Story was in progress at the commencement of the year; this Block was completed and made over to the Military Department in January. Blocks Nos. 3 and 4 have been raised two stories high, and the third story is in progress vide accompanying Photographs Nos. 1, 2, 3, 4, 5.

8 Second set Incorporating Mills at Gun Powder Manufactory.

Estimate

The Photographs sent with last years Report, showed clearly the state of this building at the Commencement of the year. It has now been completed to the entire satisfaction of the Superintendent, and is worthy of the beautiful Machinery which it covers.

Presidency
Incorporating Mills

9 Adapting the Horse Artillery Vines at Saint Thomas' Mount to provide accommodation for two Batteries Complete.

Madras District
Accommodation
for Batteries.

The following buildings have been completed during the year with excellent materials and workmanship.

1st The Guard House with Association Rooms, Orderly, and Office Rooms.

2nd Gunshed for one Battery with Store room, and Wheelwrights room.

3rd A Smithy

4th A steam boiling house for two Batteries

5th Two line-houses.

6th Eight Cottages (of brick and mud) with separate Cook rooms and Piers.

7th Roads and Drains. The Gunshed for a second Battery with Store Room, Store room, and Wheelwrights Shop, will be completed in a few days. Eight Solitary Cells have been commenced.

The Executive Engineer has been asked to send photographs of the principal buildings.

Civil Buildings

10. New Stamp Office

Presidency
Stamp Office.

Estimate Reques 28,800
increased to 30,000

on the Assistant Engineer having reported the inadequacy of certain rates entered in the original Estimate.

This building which is being erected on the site of the old Commissariat Timber Depot on the North Beach, was given out on Contract. It will be completed in June. Its state at the close of the year may be judged of by inspecting the enclosed Photographs No. 6. The workmanship is very good throughout and is very creditable to the Contractors Messrs. Fitzgerald & Co. In this building was first adopted the plan which, I hope will be universally practised at

at Madras of giving a granite facing to all basements of new buildings, and laying a coat of Asphalt over the whole surface of the building at top of Basement level. —

11 Additional Storage Room at Madras
Salt Cotours. —

The Platform has been nearly completed. Considerable difficulty has been experienced in obtaining earth except at great distances.

The work is being finished off very neatly. A plan has been devised for placing a light rail upon the platform to facilitate the transport of the Salt, and in connection therewith it is proposed to establish a system of weighing the salt as it is taken out of the boats. A bridge is also in contemplation to connect the old and new platforms together. —

12 Additions and alterations to the
Government Central Museum. —

Presidency
Salt Cotours.

Presidency
Central Museum.

The building was completed during the year and the new Upper story is now made use of. The general appearance of the building may be gathered from the accompanying Photographs No. 7.

13 Upper roomed Dwelling house for the
Superintendent of the Government Central Museum.

Presidency
Superintendent's
House. —

A very commodious dwelling house was built during the year for the Superintendent of the Government Museum in the compound of that building. Captain Mitchell is now in occupation. Some few additions are required to be made in the shape of extra Godowns raising the compound &c. —

14 New Wing to the General Hospital

General Hospital

Lower Story
East Wing.

The 2 North wards are finished with the exception of painting to wood work. The 2 South wards are completed with the exception of Plastering to walls, Asphalt flooring and painting to wood work. East.

East Centre Block.

The 2 eastern wards completed with the exception of flooring, plastering and painting to wood-work. The 2 western are completed except painting to wood-work.

Centre Block.

All the wards are completed with the exception of flooring and plastering and painting to wood-work.

Upper Storey

East Wing

All four wards North and South completed.

East Centre Block.

All four wards completed, all but painting to wood-work.

Centre Block.

Completed except Asphalt flooring, plastering to walls and painting to Wood-work.

Bath rooms and Privies to East wing are in progress, walls raised 5 feet high; door and window frames being

170
West Centre Block and West Wing completed last year and given over to the Barrack Master. -

An amount beyond the balance in the Estimate, and in excess of the additional sum already applied for, will be required to meet the cost of additions and improvements recently ordered to meet the views of the Sanitary Commission. -

Much delay has occurred from time to time pending the decision passed on the recommendations of two Committees and of the Sanitary Commission.

The preparation of plans for new houses for the Medical Officers attached to the Hospital awaits the receipt of Standard plans for Officers Quarters from the Government of India.

The accompanying Photographs Nos 8, 9, 10, 11 and 12 shew the state of the various parts of the Hospital at the close of the year.

Ground round 15 Laying out grounds round the
General Hospital General Hospital

Estimate

The whole of the Southside of the Hospital has been tastefully laid out in flower gardens and walks and the plants are kept carefully watered. —

16 General Store and Workshops

General Stores

This work was commenced in May 1864 and a glance at the Photographs Nos. 13, 14 and 15 will shew its exact state at the end of the year. The iron for the roof of the Workshops has recently been received from England, and it is hoped that in a few months the building will be completed.

17 Alterations to Saint Georges Cathedral.

The Chancel of the Cathedral was extended, and a vaulted roof placed over it. The Organ was removed from the West entrance to a recess in the Chancel, and the church was newly furnished throughout. The improvements effected are acknowledged by all to be great. The bulk of the fund was paid to the Trustees last year, but the work was done in the year under report. —

Amount of Estimate Rs 20000

Paid to Trustees Rs 20000

Balance Rs 20000

Presidency
Alterations
to Saint Georges
Cathedral.

18 Alterations to the Ground Floor of the High Court Ward and Building an Upper Story over the same at the Penitentiary.

Alterations in Penitentiary.

This work has been completed this year, the main part having been done last year. It has been satisfactorily built by the Contractor. —

19 Two Revolving Domes at the Government Observatory.

Presidency

Revolving Domes.

Both these Domes have been completed, but the Government Astronomer has expressed himself dissatisfied with the larger one.

The operations of the Superintendent of the Great Trigonometrical Survey in this Presidency have necessitated its removal to admit of a Column being erected on the same spot for his purposes. The opportunity will be taken of constructing a new Dome in accordance with the design the Astronomer wishes us to adopt. The small Dome has given him complete satisfaction. —

20 New Quarters for the Warrant Officer
of the Camp Equipage Depot. Completed.

Estimate _____ Rs. 3900
Actual cost _____ Rs. 3900
Capital cost _____ Rs. 3900

Quarters for
Warrant Officer
Camp Equipage
Depot. -

21 Deputy Collectors Butcherry at the Salt
Cottars. Completed.

Estimate _____ Rs. 1000
Actual cost _____ Rs. 1000
Capital cost _____ Rs. 1000

Presidency
Salt Deputy
Collectors Butcherry.

22 Removing Cook room and Privies
and building new ones
at the High Court. Completed.

Presidency
New Privies &
High Court.

23 Constructing a Verandah in the Lower
and Upper Story of the west side of the
Building occupied by the Revenue Board
Office at Chepauk. Completed.

Presidency
Verandah in
Revenue Board
Office. -

Madras 24 Salt Butcherry at Madrantacum.
Butcherry at
Madrantacum.

The Butcherry has been com-
pleted with the sole exception of the plastering
and flooring. It is represented to have been
built in a workmanlike manner. -

25 Salt Teshkari's Butcherry and watch
tower at Cheyoor. Completed.

Madras
Salt Butcherry
at Cheyoor. -

Madras 26 Salt Platforms at Cheyoor.
Salt Platform
at Cheyoor. -

This work is nearly completed. -

Madras 27 Wooden Girder Bridges at Cheyoor
Wooden Bridges
at Cheyoor. -

Materials have been purchased to the full
extent of the allotment, and the bridges will be
completed by 1866.

20 Road from Cheyoor (Salt Pans) to Chotapaukum. - Completed. -

Madras.
Road from
Cheyoor to
Chotapaukum.

21 This road 13 miles has been formed and opened for traffic during the year.

Agricultural.

22 Raising Body of Palar Annicut. -

North Arcot District
Raising Body
of Palar Annicut.

23 The Annicut was raised two feet ie from 5 to 7 feet high, and as the work was completed just before the Monsoon it proved at once most serviceable, almost all the tanks North and South of the River having received a full supply. The increased overfall was however too much for the Apron so that it became necessary to provide a step on it to break the fall of water. -

Palar Project.

30 Step to Apron - Palar Annicut.

Palar Annicut Steps. - Estimate — 11,000 Rs. This work was only commenced in February 1865; it will be completed in about 3 or 4 months. -

31 Chuckramellore Channel.

North Arcot District
Chuckramellore New Channel. - Estimate — 1,000 Rs. A new channel was excavated to feed the Chuckramellore and 12 other tanks on the South side of the Palar River, thereby greatly relieving the draught made upon the Doosie Main Channel. The head sluice of the new Channel was formed by adapting the southernmost under-sluices of the Annicut to the purpose. The Channel proved of the greatest service during the Monsoon. -

32 Extension of Channels under the Mahindravaddy Tank.

Mahindravaddy Tank Channels. - Estimate — 1,000 Rs. About 12 miles of Channel have been cut to utilize the waters of the overflow of the two lower tanks. -

21 large Calingulaks of this Tank; those on the North side have already proved very useful in filling the lower Tanks.

33 Poondy-poodary new channel

Intended to relieve Mahindravaddy Channel, and to profit the Poondy Poodary and other minor tanks; also the large tank of Haveripatt which it has already done. — This work was completed in March 1865.

34 Poiney Project

The completion of the Southern Channel from the Poiney Arnicut, including its extension from Amoor to Ancondal, the excavation from Pagaraoopum tank, in connection with the Eastern section of the Project, and the cut from Paravathoor Condum to Parinjee Tank, are all deserving of notice though small in themselves, because the results must prove highly remunerative.

Madras

Madras District

Palar Project

35 Madras District
Palar Project

* * The amount has been expended in restoring and improving several of the numerous tanks in connection with the project.

36 New Head Sluice Vulloor Channel

Vulloor Head
Sluice

in 1864/65

Foundations of the work were laid in

37 Restoring Melpadi Tank

Melpadi Tank

38 Kottarakam Tank

Kottarakam Tank

Cuthbert

39 Cuthalampett Supply Channel
Completed.

North Arcot
Cuthalampett
Supply Channel

40 Widening and deepening Tuckkolam Channel

North Arcot
Tuckkolam
Channel.

The work is nearly completed; a little more deepening is required in the rock, cutting near the River chiefly blasting rocks.

41 Improving Tuckkolam Dam.

Tuckkolam
Dam.

About $\frac{1}{3}$ rd of the work done, and the remainder will be finished in the course of a month.

42 Extending the system of Irrigation
under the Cheyaur Amicut.

North Arcot
Cheyaur Amicut.

The Amicut has been raised, and the Channel and Masonry works partly widened, but much good that would have been derived will be lost by the work not being allowed to progress in 1865/66.

Communications.

43 Remetalling part of the Road from Mount
to Poornamallee. Completed.

Madras District
Road from
Mount to Poorna-
mallee.

44 Metalling Road between Mylapoor
Pauk and Konatoor.

Madras District
Road between
Mylapoor Pauk
and Konatoor.

The road from Mylapoor Pauk to Konatoor was finished last year, that from Konatoor to Poornamallee has been nearly completed during the year under report.

Bridge.

20

45 Bridge across the Southern Canal
at Pudupattanam. —

Bridge over
 Pudupattanam
 Canal. —

21

Materials have been
 collected for this work, and the foundations
 have been laid. —

46 Road from Satgum to Mailputty
Railway Station. —

North Arcot
 Road from Sat-
 gum to Mailputty
 Railway Station

22

This useful Railway feeder
 7 1/2 miles long was completed and
 opened for traffic. —

47 Allancoopum Bridge.

The reconstruction
 of this Bridge of 2
 arches, each of 30 feet
 span, was placed in the hands of
 Messrs

North Arcot
 Allancoopum
 Bridge

Messrs Morgan & Co. Contractors. The
 Arches were completed, and uncentred
 during the year and the Bridge will
 now be very soon completed. —

Miscellaneous.

48 Water Supply to Guindy Park.
 Madras District

Water supply to
 Guindy Park.

The pipes and
 fittings arrived
 from England
 some weeks ago. Considerable delay has
 occurred in discussions regarding the best
 line to be adopted in laying the pipes.
 It has now been finally settled, and the
 work will be at once undertaken, and
 it is hoped, completed in a few months.

49 The number of buildings repaired is as follows.

	Presidency	Madras	North Arcot	Total
Military	74	63	3	140
Civil Buildings	60	25	11	96
Total	134	88	14	236

June

At the Presidency the principal items have been,

Repairing the Barracks occupied
by the 4th Regiment A.S. } Rs. 3,298.
at Washermanpettah.

do the several buildings at
the Gun Carriage Manufactory } " 3,111

Making repairs to the Office of the
Adjutant General and A.S. }
do do of E.A. M. } " 2,369.
Royal Artillery.

Removing and rebuilding a portion
of the dilapidated arched roof
of the Wallajah Pavilion Gateway } " 1,485.

Repairing the Office of the Examiner
of Donmispariat and Medical
Accounts } " 4,653.

do the Barrack Reading Room
at the Gun Carriage Manufactory } " 2,345.

Making thorough repairs to the Observatory
Building and Deflection Room } " 1,282.

do thorough repairs to the Sea
Custom House } " 3,179.

Repairing the Centre Hall of the
Central Museum } " 2,462.

Tanks repaired

The number of Tanks, Calingulaks,
and Channels repaired, was as follows,
and the total outlay was Rupees 1,78,659-11-10,
Viz. Rupees 76,59 in Presidency Rupees.
Rupees 99,034-6-11-7 in Madras, and
Rupees 7,165-4-3 in North Arcot Districts.

	Presidency	Madras	North Arcot	Total
Tanks and Calingulaks	8	231	149	388
Channels	"	24	54	78
Anicuts	"	2	"	2
Total	8	257	203	468

Owing to the severity of the
last monsoon, a large number of Tanks
both in the North Arcot and Madras
Districts were breached, but the damages
have been for the most part made good.

Rupees 2,500 were spent at
the Presidency for the Maintenance of the Roads in
Fort Saint George.

The outlay Rupees 1,31,068-2-3 in
the Madras District, was distributed over 240
miles of Road, and 110 Miles of Coast Canal.

336 Miles of Grunk Road
in the North Arcot District, have been maintained
at a cost of Rupees 49,082-9-2 in a fit state
for Traffic.

56 The Repairs carried out in the
 43 Madras and North Arcot Districts, are
 not of a character sufficiently extensive
 to require special notice.

57 Expenditure from Local Funds
 amounts to Rupees 1,41,206. Vizt. Local Fund

District	Income Tax Grants.	District Road Fund.	Jungle Conservancy Fund.	Educational Fund.
Presidency	24,904	"	"	10,995.
Madras	23,720	4,529	77	"
North Arcot.	14,002	32,927	2,052	"
Total	82,626	37,456	2,129	10,995.

58 The principal works from the
 Income Tax Grant were.

Road from Arcot to Arnee	13,302
Constructing 2 nd Class District Road from Battled to Couricpeth	5,500
do from Tiruvallur to Nagalapuram	7153.
do from Odoocottah to Battled	1000
do from Shally Mudali's Choultry on Chank Road No. 6 to Chimmamooten Choultry	5000
do from Tirucalicoondrum to Madras 9 1/4 miles	5000

Presidency
 Income Tax.

59 Rupees 2497 were expended in laying
 the fifth line of rails from the Custom House
 to the Pier approach.

60 Rupees 23,935 were transferred to
 the Municipal Commissioners for enclosing
 the Fort esplanades with iron fencing.

61 A sum of Rupees 10587 was made
 over to the Honorary Secretary to the Peoples
 Park for certain improvements therein.

62 Rupees 7280 were spent in
 widening the Roadway of the elephant
 gate Bridge and easing off the approaches
 thereto, a great improvement in that vast
 thoroughfare.

District Roads

63 Of the expenditure in the
 North Arcot District from the District
 Road Funds Rupees 21,891 were for the
 formation of new Roads, and Rupees
 11036 for repairs and improvements
 to roads already constructed.

The

64 The Chief new Roads on which there has been expenditure, are:

- 1 Road from Palmanair to Ven-
-ceta gherry Kotah - - - 2995-0-0
- 2 do Chittoor to Thal - 1581-0-0
- 3 do do to Gurinattum 2500-0-0
- 4 do do to Panamara 209-0-0
- 5 do Arnee to Chetput 1894-0-0
- 6 do Rannamangalam to Poloor 2000-0-0
- 7 do Poloor to Mandivash
Via Chetput 1066-0-0
- 8 do Chivettor to Mandivash 1118-0-0
- 9 do Thellar to Conjereram 3113-0-0
- 10 do from Arapakum at
Trunk Road No 1 to Old Arcot 2070-0-0
- 11 do from Chivettor to do 2149-0-0
- 12 do from Shulighur Madugu
to Panakistnarayapett 986-0-0

65 In the Madras District Rupees 4449 were expended from District Funds. With the exception of Rupees 80-5-2, the whole amount has been laid out on repairs.

Under

Jungle Conservancy

Educational

Port Fund

Price of Materials

66 Under the Head of "Jungle Conservancy Fund" Rupees 2052 were spent in the North Arcot and Rupees 77 in the Madras District making a total in all Rupees 2129.

67 A sum of Rupees 18995 was expended during the year under the head of "Educational Works" of which Rupees 173 were spent in completing a Verandah at the Government Central Book Depot Nungambakum and Rupees 18822 advanced for erecting a Presidency College sanctioned by Government in No 1059 dated 21st April 1865.

68 Rupees 994 were expended under the head of "Port Fund" for raising Cistern and Rupees 3076 has been disbursed upon the Pier.

69 No material change has taken place in the price of Materials, or in the rates of labour. At the Presidency there has been very great difficulty experienced in procuring good bricks, and in some cases skilled workmen, owing it is asserted to the low rates allowed for Brick Masonry.

The

20 4. 70 The Contract system continued to be generally maintained throughout the Contract system Division. -

71 The traffic on the North and South Canals will no doubt be fully dealt with in the Traffic separate Report forwarded by Mr. Fraser Executive Engineer East Coast Canal. -

72 The season was on the whole a favorable one. - Season

73 The causes of the entire allotment not having been spent were that Officers, hoping against hope, cannot be induced, altho' often warned, to surrender funds at a sufficiently early period to admit of their being advantageously transferred for use in other Ranges where, without doubt they ~~could~~ ^{would} have been expended. Unfavorable changes also took place which must always prove a bar to the steady progress of works. -

Chp J. Engr. Office 4th Div.
Madras 27th May 1865

A. B. Aileau, Comd R.E.
Chp J. Engineer 4th Div.

Administration
Report for 1864/65

July 22031/65

Expenditure on New Works during the year 1864/65

District	Military	Local	Buildings	Agriculture	Communication	Miscellaneous	Public Works	Unemployment	Total	Remarks
Presidency	119240	222985	350	1414	5379	349368				
Madras	80889	57733	45422	23916	2882	210842				
North Arcot	0	134864	18529	86295	37301	0	137080	142125		
Total	200129	294202	299247	132067	62631	8261	702335			

Left by Office
480 by Madras
27th May 1865

Superintendent's signature
Colonel

A J P
Expenditure upon
New Works during
the year 1864/65-

Data 27th May 1865.
Recd

777220/65

To the Secretary to Government
Public Works Department

From
The Supt Engineer
4th Division

B
Expenditure upon Repairs during the year 1864/65-

District.	Public Works	Civil Buildings	Agriculture	Commerce	Navigation	Miscellaneous	Public Improvement	Total	Remarks.
Presidency	33174	25998	7659	6764	3413	77008			
Madras	22232	11248	99347	131868	"	264695			
North Arcot.	2386	1849	71658	49083	"	124972			
Total	57792	39095	178660	187715	3413	466675			

Superintending Engineer's Office
42nd Madras
27th May 1865

(S. M. L. S.)
Superintending Engineer 42nd Madras
42nd Madras

From
The Capt. Engineer
to
The Secretary of Government
Public Works Dept.

Dated 27th May 1885
Recd.

1885 223/85

B

Expenditure upon
Repairs during the
year 1884/85.

Expenditure from Income Tax Funds during the Year 1864-65.

No in the Budget	District.	Work.	Estimate.	M. and date of sanction	Expenditure up to 30th April of the previous year.	Expenditure incurred in the current year.	Remuneration showing progress made upon such works as are not noticed in the report and sums if any expended from Imperial allotment.
	Presidency	Income Tax Works.					
		Approaches to the Madras Pier and connecting them with the Sea Customs House	8,071 120 60,860	Government 2298-7/13 Dec/64 137-6 Feb/65 2960-7-10 Dec/64	57,743 6	63	
		Laying 1 st line of Rails between the Pier and the Customs House	2,244	1259-7-3 May/65			
		Building a retaining wall on the wings and raising and ruttelling the space North and South of the Pier	3,250	- do -			Work completed and Bill submitted.
		Making a new ladder, putting up railings, furnishing 4 rope ladders and erecting 4 Dainties on the Pier	1,990	- do -	1247-4	295 13 -	
		Fitting up 2 ladders and repairing the other damages at the Madras Pier	4,460	- do -	3312 10 11	282 10 3	
		Laying 5 th line of rails on the Pier head	Impf.		2,497 5 6		B: B:
		Widening the General Hos. Bridge	11,070	1169-7/8 May/65	11,044 4 1	25 11 11	B: B:
49		Enclosing the Fort Aspla. - Gates & with Iron railings	23,935	416-7/11 Feb/64	23,935		Under execution by the Municipal Commissioners.
		Carried Over			67,318 2 13	27036 14 11	

Expenditure from Income Tax Funds during the year 1864-65.

No. in the Budget

District.

Work.

Estimate.

No. and date of sanction

Expenditure up to 30th Sept. of the previous year.

Expenditure incurred in the current year.

Amounts showing progress made upon the works, as far as not notified in the report and sums if any expended from Special Allotment.

30 Presidency

General works at the Peo-
ple's Park. Amount of
18 Estimates

Brought Over

67,318 2 10 27,036 14 11

13,587 1356 7/11 1/2 1/4

10,587

Under execution by the Hon. Secy. to the People's Park Committee.

Widening the roadway of the
Elephant Gate Bridge

7,780 3444 24 1/2 1/4 1/2

7,280

Work completed.

Total Income Tax Works

67,318 2 10 44,903 14 11

Madras

Constructing 2nd class Dis-
trib Road from Saturedd
borepett

19,000 2 2 1/2 1/4 1/2 1/4

5,499 9 9

Completed.

D.

D. from Tris-
vellore to Nagalipooram

2,140 2 2 1/2 1/4 1/2 1/4

7,153

All road dams nearly completed excepting 100 yds. for which stones have been collected, and materials for bridges, tunnels &c. have also been collected. 33,195 cubic yds. earthwork and 1317 cubic yds. masonry completed & 200 Sandy-loads of gravel carted at Palumbathur.

D.

D. from Odecottah to
Saturedd

13,301

1,000

Earth work in progress

16

D.

Road from Sheally Muralisbhorty
on Pamb Road M.B. D.C. Minna
= moolen & kavay

13,200 2 2 1/2 1/4 1/2 1/4

5,000

Completed to the extent of the allotment - earthwork laid.

Carried Over

18,632 9 9

Expenditure from Income Tax Funds during the year 1864-65.

No. in the Budget	District.	Work.	Estimate	N. and date of sanction	Expenditure up to 30 th April of the previous year.	Expenditure incurred in current year.	Remarks showing progress made upon such works as are not noticed in the report and sums if any expended from Imperial allotment.
		Brought Over				18,652 99	
17	Madras	Communal Sanitation Project	1010	Rs. 3055.722 1/2 p.		67 8.	
	D.	Constructing a Road from Tirucottai and running W. to S. E. Miles 9.7 and 420	18250	Rs. 1817.725 1/2 p. 1.2.1322.730 - do		5000	Earthwork and tunnels completed and turfing in progress.
		Total				23,720 19	
18	North Arcot	Road from Arcot to Arnee	32,600	Rs. 1517.731 1/2 p. 17,143	13 1 13,301 87		194 c. yd. earth work 93 c. yd. Brick in Mortar. 377 c. yd. of Gravel. 1035 1/2 kg. of Road metalled, 676 c. yd. of turfing and 6496 kg. of Levelling to have been completed
	D.	D. Pulliput to Kottar	700	Rs. 3334.77 1/2 p. 1st. 1/3.		700	Completed on 28th April 65. Properly maintained throughout the year.
		Total				17,143 13 1 14,001 87	

Supp. Supp. Office is D. Madras 27th May 65.

A. Villan, Colonel M.E.
Superintending Engineer
S. D.

From
The Hon. Secy. of the Interior
to the Secy. of the Treasury
P. M. D.

Dated 27th 3rd May 1855.

997 2203/165

C.

Expenditure from
Revenue & must be
paid by the year 1854-55

Expenditure from District Road Funds during the Year 1864-65:

District.	Work.	Amount expended	Remarks regarding progress made towards completion.
Madras.	<u>District Road.</u> <u>New Works.</u>		
—	Road from Chenchepet to Borraipen & Koully on District Road No. 1.	80 5 2	Sum of Rs. 1,000 was expended up to 30 April 1864. and Rs. 80-5-2 expended in 1864-65. Suspended by order of the Board of Revenue No. 2027 dated 5 April 1864.
—	Constructing a bridge of 5 arches of 6 ft span each on the road leading from Villapet to the Town of Coimbatore.	900 --	Nearly completed.
North Arc.	Road from Pungam to Chudappah frontier	180 6 3	Completed
—	Palmanir to Venkatacherry. Kotak.	2995 10 6	Completed
—	Chittoor to Kal.	1580 0 6	Completed on Contract but not yet settled.
—	— to Guristam	2500 --	Completed.
—	— to Pannamam	208 9 4	Completed
—	Arnee to Chetput	1893 8 10	Metalling & gravelling in progress.
—	Purnamungalam to Polam	1992 11 6	421 Rs. Gravel of Jelly spread.
—	Polam to Chetput	1065 13 5	149 C. of earthwork. 3357 C. of earthwork. 8978 Rs. of cutting side channel 5188 Rs. of Gravel. 8 C. of Jelly. 9157 Rs. of Gravel levelled & rammed 4224 Rs. of turpentine.
—	Wandewash to —	1112 2 11	444 C. of Gravel. 111 C. of earthwork 1655 Rs. of Gravel spread. 320 Rs. of turpentine executed.
—	Trinettoor to Wandewash	3808 6 7	of earthwork, 8396 Rs. of cutting side channel
—	Thellam to Coimbatore	3112 10 4	195 C. of Gravel 98 C. of Jelly 4108 Rs. of turpentine 2004 Rs. of levelling 5900 Rs. of Jelly & Gravel spread 100 Rs. of covering stone.
—	Completing the road from Trappellam to District Road No. 1 & Old Arc.	2077 10 --	About 3 1/2 miles of the road completed.

D

[illegible]

Expenditure from District Funds during the Year 1864-65.

District.	Work.	Amount expended	Remarks regarding progress made towards completion.
North Shore	Road from Palmanai to Thiruvannam	937 15-6	Completed
Do	Municipal Improvements at Venkatacherry	263 15-4	Do
Do	Repairing Chief Road at Palmanai	62 8	Do
Do	Road from Konee to Kalatapattinam	649 5-7	226 Cys of gravel spread.
Do	Do to Vennipattanam & Thiruvannam	30	Completed.
Do	Do Public works at Channarayana	215	9
Do	Do to Oppoor & Mapooram	119 15-9	Completed.
Do	Vellore Town Road Improvements	600	
Do	Road from Pallajah to Konee & Tholungur	800	Completed
Do	Do to Channarayana & Thiruvannam	300	Do
Do	Do to Channarayana & Thiruvannam	1030	Do
Do	Do to Konee & Thiruvannam	315	Do
Do	Do to Channarayana & Thiruvannam	120	Do
Do	Do to Konee & Thiruvannam	500	Do
Do	Do to Konee & Thiruvannam	40	Do
Do	Do to Konee & Thiruvannam	80	Do
Do	Do to Konee & Thiruvannam	50	Do
Do	Do to Konee & Thiruvannam	203	Do
Do	Municipal Improvements at Konee	150	
Do	Road from Channarayana to Thiruvannam	25	Completed on the 5th November 1864.
Do	Do to Konee & Thiruvannam	320	Do 15th December 1864.
Do	Metalling the Vagavay River on the Thellam Road	300	Nearly completed.
Grand Total		14585 1 9	

Revenue 35218-15-8
 Grants 11036-2-1

D

211

Expenditure from District Funds during the Year 1864-65:

District.	Work.	Amount expended	Remarks regarding progress made towards completion.
Madras	Planting Jungle Conservation.		
do.	do. Nurseries & at the North		
do.	do. from Chingleput to Tiruchendur	6	
do.	do. from Chingleput to Tiruchendur	9	
North Arcot	Planting on		
do.	do. Road No 10	8	
do.	do. Road No 11	10	
do.	do. Road from Chingleput to Tiruchendur	4	
do.	do. Road to Tiruchendur including		
do.	do. Gururattam to Venkataswamy	77	
do.	do. Palamaner to Pulliam	22	
do.	do. do. to Pulliam	43	
do.	do. do. to Pulliam	14	
do.	do. do. to Venkataswamy	99	
do.	Planting East and West of Chingleput	67	
do.	Chingleput Nurseries		
do.	2 1/2 laps Road No 7 from Pulliam		
do.	Tripattiy	11	

Madras - 76-12-3
 do. do. - 1052-5-3
Total Jungle Conservation 116

Educational Works.

Presidency constructing a permanent Verandah at the
 Government Central Book Depot. Sumatra 79 Work completed.

Carried Over 179

Expenditure from District and Funds during the Year 1864-65:

District.	Work.	Amount expended	Remarks regarding progress made towards completion.
	Meeting a Presidency College (advance)	Brought Over 173 7 9 1862 - -	
	<u>Total Educational Works</u>	<u>18995 7 9</u>	
	<u>Port Fund.</u>		
	Raising 6 lines 6 items	993 11 0	
	<u>Total Port Fund</u>	<u>993 11 0</u>	

Supdng's Office L. D.
Madras 27th May 1865.

Brileau, Colonel R. H.
Superintending Engineer
L. D.

Donec

Wm. L. P. August
14-1879

Attest

26
Secetary to Govt.

John D. Webb

Date 27th } May 1885.
 Recd.

7772201/65

U

Expenditures from Office
paid for funds during
the year 1864-5.

1865
28 22 34
1865

Chief of the
Office
of the
of the
of the
of the

March 11th
1865
B. 10

Superior 1864-1865

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

District

Works.

Paragraphs of Report in which noticed.

Amount of Estimate

Order sanctioning the Estimate

Expenditure up to the end of the preceding Official year.

Original Estimate for the year under report

Actual allotment for the year under report

Actual Expenditure during the year under report.

Remarks.

Military

Improving the Drainage of Port Saint George

4

67040

Rs. 1258 d/25
May 1869.
Rs. 992 d/27
May 1864

25066

25000

"

25000

"

"

Suspended and allotment trans-ferred to other works Vide G.O. No. 2258 of 15 Aug 1864.

Alterations to the Sea Face Batteries

5

13130

131 d/15
Jan 1864.

3990

8120

"

5720

5756

In progress.

Converting Casemates in North East and South East Curtains into Expense Magazines and the Flag Staff Redan into Ordnance Store Rooms.

6

9570

3082 d/23
October 1863.

"

9570

"

9310

8124

Completed

Family Quarters Port St. George

7

158100

2678 d/6
November 1862

96880

61242

"

47242

45642

In Progress - A supplemental Estimate for Rupees 10,680 was sanctioned in G.O. No. 1038 d/20 April 1865.

Second set Incorporating Mills at Gun Powder Manufactory

8

38100

1764 d/6
July 1863.

21783

12572

"

9352

8197

Completed

Adapting the Horse Artillery Lines at Saint Thomas Mount to provide accommodation for two Batteries complete.

9

85100

120 d/13
January 1864.

"

85100

"

79559

72023

In Progress.

Presidency

Madras.

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

E.

District	Works.	Paragraphs of Report in which noticed.	Amount of Estimate	Order sanctioning the Estimate	Expenditure up to the end of the preceding Official year.	Original & Additional for the year under report			Net allotment for the year under report			Actual Expenditure during the year under Report.			Remarks.
						From Imperial Fund	From Income Tax Fund	From Income Tax Fund	From Imperial Fund	From Income Tax Fund	From Income Tax Fund	From Imperial Fund	From Income Tax Fund	From Income Tax Fund	
Presidency.	<u>Civil Buildings.</u>														
	New Stamp Office.	10	30000	N: 141 of 15 th January 1864.	" 28880	"	"	"	23880	"	23213	✓	✓	✓	Nearly Completed. The Estimate amounted to Rupees 28,880 and increased to Rs. 30,000 on the Assistant Engineer having reported the inadequacy of certain rates entered in the original Estimate. —
	Additional Storage Room at Madras Salt Cotours	"	61300	2040 of 25 th July 1863.	8242 30000	"	"	"	27000	"	27037	✓	✓	✓	In Progress.
	Additions and Alterations to the Government Central Museum	12	35750	157 of 20 th Jan'y 1863	28144 7600	"	"	"	8900	"	9529	✓	✓	✓	Completed.
	Upper roomed Dwelling house for the Superintendent of the Government Central Museum	13	12000	1474 of 20 th May 1864	" 12000	"	"	"	12000	"	12243	✓	✓	✓	Completed.
	New Wing to the General Hospital	14	219500	1754 of 22 nd July 1862	162459 57000	"	"	"	52000	"	51645	✓	✓	✓	In progress.
	Laying out grounds round the General Hospital.	15	10350	2474 of 20 th Nov'r 1863.	" 10350	"	"	"	3960	"	4064	✓	✓	✓	In progress.
	General Store and Workshop	16	76390	24 of 3 rd Jan'y 1864	" 50000	"	"	"	54230	"	55023	✓	✓	✓	In progress. The net allotment was Rupees 49,230, but an additional sum was granted in April 1865 Rupees 5000.
	Alterations to Saint Georges Cathedral	17	28050	1163 of 22 nd April 1864.	28050	"	"	"	2250	"	1713	✓	✓	✓	In Progress.
	Alterations to the Ground Floor of the High Court Ward, and Building an Upper Story over the same at the Penitentiary	18	13300	271 of 2 nd February 1863.	10000 3300	"	"	"	2619	"	2619	✓	✓	✓	Completed.

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

E.

District	Works.	Paragraphs of Report in which noticed.	Amount of Estimate.	Order sanctioning the Estimate.	Expenditure up to the end of the preceding Official year.	Original allotment for the year under report.			Actual allotment for the year under report.			Actual Expenditure during the year under report.			Remarks.
						From Imperial Fund.	From Income Tax Fund.	From Local Fund.	From Imperial Fund.	From Income Tax Fund.	From Local Fund.	From Imperial Fund.	From Income Tax Fund.	From Local Fund.	
Presidency.	Two Revolving Domes at the Government Observatory.	19	2950	21486 of 4 th Nov 1864	2989	"	"	"	1356	"	"	1700	"	"	In progress - The original allotment was Rs. 14,000 sanctioned in Savings Statements No. 850 & 490 vide G.O. No. 1016 of 12 th April 1865.
	New Quarters for the Warrant Officer of the Camp Equipage Depot.	20	3900	2513 of 31 st Aug 1863.	3900	"	"	"	3900	"	"	3910	"	"	Completed
	Deputy Collectors Butcherry at the Salt Cutters.	21	6460	2398 of 25 th do	6460	"	"	"	6460	"	"	6473	"	"	do
	Removing Cook Room and Privies and building new ones at the High Court.	22	5420	3206 of 3 rd Nov 1863.	1000	"	"	"	4370	"	"	4388	"	"	do
	Constructing a Verandah in the Lower and Upper Story of the Building occupied by the Revenue Board Office at Chepo.	23	4950	768 of 14 th March 1864	4950	"	"	"	4950	"	"	5186	"	"	do
Madras.	Saloon Butcherry at Madranticum.	24	11300	2837 of 30 th Sept 1863.	6000	"	"	"	10458	"	"	10450	"	"	In Progress.
	Salt Peckars Butcherry and Watch Tower at Cheyoor.	25	1250	2491 of 29 th August 1864	1250	"	"	"	1312	"	"	1312	"	"	Completed
	Salt Platforms at Cheyoor.	26	3950	"	3950	"	"	"	3830	"	"	3830	"	"	In Progress.

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

District	Works.	Paragraphs of Report in which noticed.	Amount of Estimate	Order.	Vouchings.	The Estimate	Expenditure up to the end of the preceding Official year.	A dot or the year report	Total allotment for the year under report	Actual Expenditure during the year under Report.	Remarks.
Madras.	Wooden Gyder Bridges at Cheyoor	{ 27	3120	"	"	1700	"	1700	"	1700	In Progress
	Road from Cheyoor (Salt Pans) to Chotapankun.	{ 28	8800	No 42 of 7 th January 1864	"	8800	"	8800	"	8298	Completed
	<u>Agricultural</u>										
North Arcot	Raising body of Palur Amicut	29	7700	1270 of 3 rd May 1864	"	7700	"	7700	"	7700	do
	Palur Project Estimate No. 652871 Step to Apron Palur Amicut	{ 30	12700	465 of 16 th Feb. 1865	"	2000	"	2000	"	2000	In Progress
	Chacknamellor Channel	31	8300	142 of 16 th Dec. 1865	"	8300	"	8300	"	8130	do
	Extension of Channel under the Mahindravady Tanks	{ 32	15000	1719 of 13 th June 1863	"	15000	"	15000	"	14059	do
	Poomdy Poo dairing New Channel	33	1350	3153 of 2 nd Nov. 1864	"	1350	"	1350	"	1350	Completed
	<u>Poinery Project.</u>										
	Estimate No. 153283 Cutting Channel from Sallpet to Surpentangle and Improving Amoor Tank Calingulah	{ 34	19300	3637 of 9 th Dec. 1864	"	16874	2426	"	2426	2426	do

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

District

North Arcot

Madras

North Arcot

Works.

Paragraphs of Report in which noticed.

Amount of Estimate

Order sanctioning the Estimate

Expenditure up to the end of the preceding Official year.

Original Estimate for the year under Report

Net allotment for the year under Report

Actual Expenditure during the year under Report.

Remarks.

Anundul New Channel

34

1400

12/677 d/7th March 1864

"

1400

"

1400

"

1428

Completed

Cutting a Channel from South end of Pagaracorum Tank to Chenganatham.

"

1100

2105 d/21st July 1864

"

1100

"

1100

"

1100

do

Excavating the Channel from Paravattur to the Paranjai

"

1400

1619 d/30th June 1865

"

1400

"

1400

"

1400

do

Palar Project

35

213273

1667 d/20th Dec^r 1851

1814360

26210

"

20210

"

20211

In Progress

New Head. Shuice Pullonchund

36

3875

3235 d/6th Nov^r 1863

702

3173

"

3173

"

3173

Nearly Completed

Restoring Melpadi Tank

37

4704

577 d/24th Sept^r 1855

2884

1820

"

1820

"

1820

Completed

Kottarakum Tank

38

2350

1905 d/30th June 1864

"

2350

"

2350

"

2350

do

Enthalampet Supply Channel

39

2250

2189 d/12th August 1861

"

2250

"

2250

"

2231

do

Widening and deepening Tackolam Channel

40

3400

3147 d/4th Nov^r 1864

"

3400

"

3400

"

3083

Nearly Completed

Improving Tackolam Dam

41

4000

5744 d/18th February 1865

"

1000

"

1000

"

1000

In progress Rs 1000 allotted in G.O. No 1016 d/12th April/65

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

District	Works.	Chronographic of Works in which noticed.	Amount of Estimate	Order sanctioning the Estimate	Expenditure up to the end of the preceding Official year.	E				Actual Expenditure during the year under Report.	Remarks.	
						Original estimate for the year under Report.	Actual for the year under Report.	Settlement for the year under Report.	Actual for the year under Report.			
						From Imperial Fund	From Provincial Fund	From Local Fund	From Imperial Fund			
North Arcot	Extending the system of Irrigation under the Cheyaur Amicul	42	29700	N ^o 1333 of 9 th May 1864	"	18000	"	10000	"	9589	In Progress	235
	<u>Communications</u>											
Madras	Remetalling part of Road from Mount to Poinamala	43	6600	2117 of 3 rd Aug st 1863	1973	5500	"	5500	"	5500	Completed	
	Metalling the Road between Mylapoor Tank and Konattor.	44	27100	N ^o 3295 of 13 th Nov ^r 1863	13439	13661	"	13661	"	12465	In Progress	
	Bridge across the Southern Canal at Poodoospatnam	45	3320	3005 of 19 th October 1864	"	3320	"	2320	"	2620	In Progress. A Supplemental Estimate for Rupees 300 was sanctioned in G. O. N ^o 1221 of 5 th May 1865.	
North Arcot	Road from Satgush to Mailputti Railway Station	46	4700	1417 of 16 th May 1864	"	4700	"	4700	"	4700	Completed	
	Allancoopam Bridges.	47	5600	3667 of 11 th Dec ^r 1863	"	"	"	5600	"	1908	In Progress.	

Statement shewing the New Works noticed in the Administration Report for the year 1864/65.

District	Works.	Paragraphs of Report in which noticed.	Amount of Estimate	Orders sanctioning the Estimate	Expenditure up to the end of the preceding Official year.	Original & Additional for the year under Report.				Total allotment for the year under Report.				Actual Expenditure during the year under Report.	Remarks.
						From Imperial Fund.	From Income Tax Fund.	From Income Tax Fund.	From Income Tax Fund.	From Imperial Fund.	From Income Tax Fund.	From Income Tax Fund.	From Income Tax Fund.		
Madras.	<u>Miscellaneous.</u>	Water Supply to Guindy Park	£40 17986	N ^o 3426 d/ 30 th Nov ^r 1864	13981	"	"	6170	"	5058	"	"	"	In Progress.	

Supy. Engⁿ. Office 1st Div.
Madras 27th May 1865

A. Briceau Colonel R.E.
Supy. Engineer 1st Div.

St. Germain
Administration Report for
1864/65.

1 The allotment for the year 1864-1865 to the 8th Division was as follows:

	Budget.	Reserve.	Total.
Madura District Rs.	120,705-10-	9,771-	130,476-10-
Tinnevely District Rs.	168,436-6-	12,492-	180,928-6-

2. The amounts received from private contributions were in Maryland \$4.326.

"*Annexed*" 2029.

Of which the amount expended were in.

Madeira. N. 326.

Tinnevely Rs. 925.

The improvement of the Cotton road from Madurai to the Coimbatore boundary to Theroomungallim has been commenced. The expenditure of Rs 11,000 from Imperial and Income tax funds having been incurred during the year. 13 platform bridges have been finished, and several others are in progress. Endeavours have been made to put the worst portions of this road in order first.

1. On the Shumoganiiddee bridge the outlay has been Rupees 11,335. The foundations of the abutments and piers have been put in, and materials for the superstructure are being collected. —

These balances are from agricultural repairs
 allotments, and were not reported owing to insuffi-
 cient labor, in some of the taluqs not being procurable
 and to interruption caused by rain.

These balances from allotments for communica-
 tions were not reported owing to deficiency in sup-
 ply of labor.

The savings in other allotments being
 trifling, no mention is made of them.

Sup. Engrs Office 8th Div
 Madras 11th May 1865
 To the
 Colonel C. A. Orr, R.E.
 Secretary to Government
 D. G. O.

Expenditure upon New Works during the year 1864-65

District	Military	Civil	Agri- cultural	Communi- cations	Miscellaneous and Public Improvements	Total	Remarks
Madras	295	3800	1978	3712.6	"	38705.	

Yr. Obediently

Supg Engineers Office
 8th Division Madras
 11th May 1865

C. C. Payne
 Esq. Engineer in ch. of Supg. Engrs
 Office 8th Division
 Captain
 2013

Expenditure upon, need
during the year 1864, 65.
in all Districts of Madras

4 17

2224/65

Expenditure in the administrative
Department of the S. Province
for 1864-65

B

Expenditure upon Reports during the year 1864-65

District	Military	Civil Buildings	Revenue	Communications	Miscellaneous Public Improvement	Total	Remarks
Madurai		1490-5	222589-15-5	54053-9-5	32-15	89166-13-5	

Supd. District Office S. P. D.
Madurai 11th May 1865

Geo. C. Payne

Ca. District Office S. P. D.
Madurai 11th May 1865

Captain

Expenditures upon repairs
during the year 1864/65
in the District of Columbia

D.

1864/65

Expenditures in the administration
the part of the 8th Division for
1864/65

13

Expenditures upon repairs during the year 1864-65

District	Military	Civil Buildings	Agriculture Rural	Communications	Miscellaneous Public Improvements	Total	Remarks
Al. Numerically	2,271	5,005	52,305	67483	1266	123,330	

Supg Engineer Office
8th Division Engineers
11th May 1865

Postage
Capt. Engineer in charge of Supply Engineer
Office 8th Division

Expenditure upon the same during the year 1864/65 in the District of same.

20.

2284/65

Enclosed in the submission is the Report of the S. & P. for 1864/65.

Expenditure from Income tax funds during the year 1864/65

District	Work	Estimate	By date of same	Expenditure up to 31st April of the preceding year	Expenditure in current year	Remarks showing progress made upon such works as are not noted in the Report & sum of any expended from District
Madurai	Road from Perambur to Palani	16,500	Got 3450 28-11-65		8432-9/16	Rs 2632-12-11 inc 4 pence from District fund.
	Water supply	23,000	Got 4,641 1-4-65	Shir fund	4,112-9/12	Under Tunnel & system since work completed, & extent of aqueduct to 2000, most part of earth & turf work done.
	Water supply	6,000	Got 2,200 21-2-65	Summit		
	Water supply	6,500	Got 3467 13-12-64	15,704-23	12,575-0-6	

Super. Insp., Office S. & P.
Madurai 11th May 1865

R. S. S. S. S.

Super. Insp., Office S. & P.
Madurai 11th May 1865

Expenditure from known
 two funds during the
 year 1864, 1865 and the
 District of Madras

D

77722204/65

Enclosure in the statement
 below Report of the S^r
 Division for 1864/65

Expenditure from Income Tax Funds during the year 1864-65

District	Work	Estimate	Age and date of survey now	Expenditure up to 30 th April of the previous year	Expendi- ture in current year	Remarks showing progress made upon such works as are noticed in the report and sums (if any) expended from Imperial allotment.
Y. Immenvelly	(Road h.c.h. from Mas- dura to Brambooly near Immenvelly	3,000	14th 26619 11 th April 1863		8337	

Supy. Engineers Office
 S^r Division Madras
 11th May 1865

Robert Payne Captain
 S^r Engineer in charge
 Office S^r Division



inclosed, viz the address of
William Lloyd of the 8th Lane
drive for 1874 & 1875 -



Expenditure from District Road &c. funds, during the
year 1864-1865. -

District	Officer	Amount expended	Remarks regarding progress, method, conditions completion.
Madura	Madura Town water project	4,289 11 -	Under loan by Government will complete sections of road raised - most part of work about done No 112-7-2 111148 funded from Government funds.
	Road N. 15 from 6 to 7 Miles	675 11 2	
	Do from 14 to 16 Miles	638 5 14	
	Do from Tharamin to Madurai	500 . . .	Completed
	Do " " "	120 . . .	P.
	Do N. 10 from Pullapully to Peraculum	572 11 -	P.
	Do Coolumputtyam to S. tirumai.		
	Tunnel between S. tirumai & Pulleppallu, and Pulleppallu to Peraculum.	178 2 - 14	P.
	Road N. 18 from Pulleppully to Peraculum.	20 . . .	P.
	Blasting rock on Peraculum ground.	2094 6 - 9	
		438 . . .	
		9525 . . .	

Sup^r Comr, Office S^d D^r, 2^d
Madura 11th May, 1873

Ex. 20.

Captain

15

1865-1866
1866-1867
1867-1868

Enclosure on the enclosure,
London, England of the 8th Dec
for 1866/67

Mr 2284/65

(1)

Enclosure on the enclosure
London, England of the 8th Dec
for 1866/67 and the
Enclosure of the 1866/67

Expenditure from District
Road 85 funds during the
year 1864/65 in the
District of Channarayana

(11)

90/12 2203/55

Inclosure in the submission
inward (No 1) of 1865/66
for 1864/65

G.

Statement showing the new works noticed in the Administration Report for the year 1864/65

District	Off. works	Paragraph of Report in which noticed	Amount of Estimate	Order sanctioning the Estimate	Expenditure upto the end of preceding Official year.	Original allotment for the year under report			Settlement for the year under report	Actual expenditure during the year under report	Remarks	
						From Government funds	From Imperial Government funds	From Provincial funds				
Tinnevely	Road No 8 from Palamcottah to Thuduvai	7	130000	G.O. No 3733 of 17 Dec 1863	19021	20000	"	"	21966	"	21964	+
	Reconstructing panchas and adding 2 more on the south side of the Sallur Bridge on high Road No 4	8	22000	G.O. No 2410 of 25 Aug 1863	17966	"	"	"	4034	"	3845	+

Sup^d Mgr: Office S^d D^r 2
Madurai 11th May
1865

Respectfully
Ex M^r in ch^g of Sup^d Mgr: Office S^d D^r

Statement showing the
now working and in the
administration of the
for the year 1874-75 in
the District of Columbia.



7-11-22-84/65

One business the advertisement
between the part of the 8th
Division for 1864 & 65.

Q

Statement showing the work, noticed in the Administration Report for the year
1864 - 65.

District	Officer	Description of Report on which reduced	Amount of Estimate made	Order containing the Estimate made	Report there upon up to the end of the fiscal year ending Official Year	Original Estimate for the year ended, report		Settlement for the year ended, report		Actual expenditure during the year ended, report	
						From Estimate	From Estimate	From Estimate	From Estimate	From Estimate	From Estimate
Madras	11	Repairing Road from Moomingalam to Combaratore by February	16,500	60.10.0 34.50 25.11.50	"	10,000	10,000	10,000	10,000	10,000	
			30,169	60.10.0 35.75 24.12-53	5,609	"	10,000	10,000	10,000		
Officer	11	Bridge across the Mammagumady Bridge	30,169	60.10.0 35.75 24.12-53	5,609	"	10,000	10,000	10,000	10,000	
			30,169	60.10.0 35.75 24.12-53	5,609	"	10,000	10,000	10,000		

See 1st Engineer's Office S^t 49 m.
Hudson's 11th March 1865

Leutayre - Captain
Co. 14, 1st Mich. of Inf. 1st Corps, U. S. Army

Office of the Controller
of Public Works Accounts
Madras 15th June 1865

N^o 437

Memorandum.

The undersigned has the honor to subjoin the statement of Imperial allotment for the year 1864-65, called for in Memo N^o 75 dated the 1st May 1865.

The report of Expenditure on "Establishments" and "Tools & Other" called for in Memo N^o 73 dated the 12th Instant, will be forwarded immediately on the receipt of the Accounts Current for April 1865 still due from the 8 Districts noted in the margin.

Captain R. E.

Controller of P. W. Accounts

To

Colonel C. A. Orr. R. E.

Secretary Government
P. W. D.

Enclosed in the subjoined
British Report of the 8th
Division for 1864-65

7th 2204/65

P.

Statement showing the
new establishment in the
Administration of the
for the year 1864-65 in
the District of Madras

North Arcot
South Arcot
Salem
Bangalore
Dindigul
Tanjore
Madurai
Tamil Nadu

117322, 550

25,55,500

A. No

58,88,055

52870

152,555

Tobacco

1,50,255

P. No

Estates included

under lease for local funds

13,45,552

73,88,473

Revenue

1,76,252

J. G.

70,571

Revenue

4,74

Revenue

2,492

76,49,541

76,49,107

76,51,611

Postal

434

Postal Contributions not expended

18,619

73,90,965

33,582

73,57,383

76,68,171

127,17,216

65207

11,619

22,582

18,620

7011

11,611

District	New works	Repairs	Collectors	Total
Ganjam	59,239	69,913	812	1,29,964
Udgaipatam	15,419	62,650	796	2,17,637
Poddary	4,83,946	24,2025	4,268	7,80,239
Disturb	228,210	210,850	4,720	4,43,780
Kelce	10,5792	69,530	4,100	1,79,222
Cuddapah	78,1783	118,801	495	1,97,469
Curnool	22,862	57,628	160	80,650
Bellary	78,1354	14,3905	3,021	2,25,051
Presidency	348,716	80,059	2,018	4,30,793
Madras	229,465	263,747	382	4,93,594
North Arcot	154,444	137,340	7	2,91,791
South Arcot	93,098	196,189	698	2,89,985
Palem	58,523	95,008	642	1,54,173
Bangalore	16,1859	18,180	1	18,040
Danjur	53,975	219,559	211	273,745
Dichinopoly	12,4067	162,711	"	286,778
Cochinbatore	286,645	113,829	16,948	4,17,422
Malabar	329,857	79,933	7,690	4,17,480
South Canara	60,209	50,620	922	1,11,751
Madura	35,377	95,205	1,536	1,32,118
Dinnevelly	52,185	131,927	3,443	187,555
Municipal Comrs	"	35,897	"	35,897
Total	31,98,968	26,55,506	52,870	59,07,344
Transfers from Postal Department	33,582	434	"	234
Store Department	"	"	120,985	120,985
Irrigation Company	28,315	"	"	28,315
Inappropriated Reserve	2,492	"	"	2,492
Grand Total	32,29,775	26,55,940	1,53,855	60,39,570

28315

Captain R.E

Controller of P.W. Accounts

Administration Report.
7th Division.
Coimbatore District.
Imperial Fund Allotment.
New Works.

Budget Allotment	25,556	" "
Add:		
Grant for Minor New Works at the disposal of Superintending Engineer.	2000	" "
" From Reserve Fund	32,451	" "
Transferred from Repairs allotment of Budget	9077	" "
Malabar District	26,472	" "
South Canara	5676	" "
South Arcot	3276	" "
Vizagapatani	8125	" "
Taliam.	5542	" "
Kistna	4026	" "
Nellore	86	" "
Kurnool.	1199	" "
Bellary.	3860	" "
Godavery.	3176	" "
Trichinopoly	925	" "
Total Repairs.	62,361	" "
Deduct.		
Transferred to Malabar District	32,550	" "
South Arcot.	17,320	" "
Bellary.	1,300	" "
Tanjor.	8,879	" "
	55,049	" "
Transferred to head Tools & Stores.	20,270	15 5 7 5 3 19 15 5
Total New Works	28,614.5	" 7.
Carried over	28,614.5	" 7.

17320 00 00
 2400 00 00
 32451 00 00
 9077 00 00
 26472 00 00
 5676 00 00
 3276 00 00
 8125 00 00
 5542 00 00
 4026 00 00
 86 00 00
 1199 00 00
 3860 00 00
 3176 00 00
 925 00 00
 62361 00 00
 32550 00 00
 17320 00 00
 1300 00 00
 8879 00 00
 55049 00 00
 20270 15 5 7 5 3 19 15 5
 28614.5 00 00
 28614.5 00 00

Brought Over ————— 28,645 7

Repairs.

Budget allotment ————— 11,988 ..

Add:

Transferred from Maras District 561 ..

Malabar ————— 6,801 ..

North Arcot ————— 1,678 ..

South Arcot ————— 1,052 ..

Trinvelly ————— 1,000 ..

123,080 ..

Deduct:

Transferred to New Works — 9,074 ..

Tools and stores — 176 4 ..

Transferred for expenditure
by the Police Department — 141-8-9 9,392 12 ..

113,687 4 ..

Tools and stores.

Grants from the allotment of Rs — 10,000 1,346 ..

" — 20,000 7,43 13 6

Transferred from Works allotment — 20,445 3 5

22,535 .. 11

Deduct

Transferred to Presidency Store Dept. — 5,000 .. 17,535 .. 11

Total Allotment Repairs ————— 41,367 5 6.

Malabar District

New Works.

Budget allotment ————— 24,787 4 ..

Supplemental Budget — Do ————— 9,500 ..

Add. Grant for Minor New Works ————— 1,500 ..

Transfer from Repair allotment of Malabar — 3,171 5 7

Do — From the Reserve Fund — 6,508 1 ..

Do — From South Arcot — 264 ..

Do — From North Arcot — 500 ..

Do — From Coimbatore — 32,550 ..

Do — From Vizagapatam — 200 ..

Carried over ————— 42,640 5 7

Brought forward ————— 1,36,440 5 7

Deduct. transfer to Repair allot.

ment of Malabar ————— 1,100 ..

Transfer to Coimbatore District — 33,273 ..

Trichingopoly — Do — 11,100 ..

South Canara — Do — 15,370 ..

South Arcot — Do — 9,399 ..

Tanjore — Do — 7,029 ..

3 Divisions — 10,007 ..

Head supply of Tools & Stores — 5,504-13-9 9,582 13 9

3,32,357 7 11

Repairs.

Budget Allotment ————— 68,406 ..

Add transfer from Coaruz District — 3,704 ..

Do — from Tanjore District — 3,875 ..

Do — from South Arcot — Do — 2,921 ..

Do — from New Works allotment — 4,100 ..

83,804 ..

Deduct transfer from Minor New Works Malabar — 3,071 5 7 79,932 10 5

Tools and Stores

Grant from the allotments in G.O. No. 1548 of
27 May 1865. ————— 2,156 2 8

Transfer from Works allotment — 5,504 13 9 7,661 .. 5

Total Allotment ————— 1,17,451 2 8

South Canara District.

Budget allotment New Works ————— 33,920 ..

Minor Works allotment — 100 ..

Grants from Reserve — 17,574 .. 18,574 ..

Transferred from Malabar District — 14,170 ..

Total ————— 66,664 ..

Carried over ————— 66,664 ..

Dr. Credit.

Brought Over. — 66,664 ..

Amount transferred to Comptroller

District — 5,676 ..
 — — — — — 779 .. 6,455 ..

Total New Works. — 60,209 ..

Repairs.

Budget Allotment — 48,100 ..

Transferred from Madras District — 320
 — — — — — from Malabar — Rs. 1,200
 — — — — — from Sanjor — Rs. 1,000 2,520 .. 51,620 ..

Tools and stores &c. — 922 4 8

Total Allotment. — 111,751 4 8

The General Allotment of the Division with these stands thus —

— — — — — New Works. — 67,711 8 5

— — — — — Repairs — 244,239 16 5

— — — — — Tools and stores — 26,118 6 ..

Grand Total Allotment Repairs 94,706 12 10

The Receipts and Expenditure from Private Contributions have been as follows. —

	Receipts	Expenditure
Comptroller — District —	1264 8 4	1264 8 4
Malabar — District —	4949 11 8	4949 11 8
South Canara — District —	797 ..	797 ..
Total. —	7011 4 ..	7011 4 ..

Malabar — District — 1264 8 4

South Canara — District — 4949 11 8

797 .. 797 ..

Total. — 7011 4 .. 7011 4 ..

The expenditure of Comptroller District is included in statement B under Agricultural that of Malabar in statement A under Civil Buildings, and that of South Canara in statement B under Civil Buildings.

Military

1. New Lawrence Hyland. Ootacamund.

Comptroller.

The entire site for our building is excavated, 31,802 Cubic yards, and 17,129 Cub. yards have been dug towards the completion of the other site.

The Workshops have been built and roofed in with corrugated iron giving 19,026 Sq. feet under cover, divided into 3 Shops for Carpenters aggregating 370 x 21, a Smith's Shop 140 x 21 a room for Machinery 220 x 21, the rest being taken up by offices and stores. A vertical and a Circular Saw have been set up as well as a planing Machine, the saws driven by an 8 H.P. Engine, as is also the planing Machine; a 4 H.P. Engine has been set up in the same Shop to drive the fans for the forges in the Smith's Shop.

The tramway to bring bricks from brick fields to the site is complete, the rails being laid the whole length 14,80 feet the river being 244 feet, the Stationary Engine and Drum fixed on the top.

Our Block of 20 servants houses has been completed, the rooms are 10 x 8, floors boarded, a fire place in each room, built, roofed and tiled; the brickwork of another block same size is completed and woodwork of roof up.

In the Brick fields twenty five lares of Bricks have been made, of which however four lares were destroyed on the banks by the storm in July 1864; over 13 lares have been burnt and 9 lares have been issued to building, there are now over six lares on hand of burnt bricks; the hand power brickmaking Machines have been in constant use and a steam brickmaking Machine received from Madras has been taken down to the Brickfields and the Engine fitted in its place, flues and chimney built, a

house for the Machine is nearly roofed in and it is hoped that this Machine, calculated to turn out a large number of Bricks daily will soon be at work. —

A. & H. P. Engine has been set up to drive the Chumam Mill, a house for the Mill has been built and the Mill, which turns out 300 paraks of Mortar in a day's work requiring the labor of only 6 men and a boy to drive the Engine, has been worked constantly. —

A Contract for the supply of Lime Stone has been entered into, and 4,362 paraks have been brought up from the low Country, a Lime Kiln has also been built as also a shed roofed with iron to contain the lime. —

At the jail iron roofed sheds have been substituted for the thatched sheds, there are now 3 sheds 210x14-9 each, 1 Guard room 81x14-9, 1 shed 80x14-9, 1 Cook room 100x12 and one 60x12 for the guard, 2 Hospital Wards 120x14-9 all covered with Continuous Iron roofing, a tiled house for the jailor and thatched quarters for the warders and the whole Police Guard. —

A Contract for the Carriage of timber from Ostacumund has been entered into, and 669 brams being all the Forest Department. Cuts furnish, have been carried out to the works. —

Revised Plans and Estimates for the Lawrence Hyland Buildings are in a forward state, and will be submitted immediately. —

2. Additions to Infantry Barracks Cannanore.

Apothecaries Quarters.

This building was commenced in August 1864 on Contract and finished and handed over to the Military Authorities on 20 April. —

Regimental School.

Work carried on Departmentally. The Pillars and exterior end walls and walls above roof of Verandah plastered. One and a half room floored. Foundation & basement

of piers laid. Work to be done. Interior of building & Verandah to be plastered. Windows and doors to be glazed. Three rooms and Verandah to be floored and piers to be built at earliest opportunity. —

Recreation Room.

Work carried on Departmentally. This building is finished with the exception of Plastering the walls inside and out and flooring Verandah and three rooms. The pillars are all plastered and one room 60x20 and one 30x20 floored. —

Servants Mess House.

Work carried on Departmentally. Foundation and Basement only finished. Stones collected for Main Building. —

Staff Servants Quarters.

Work carried out on Contract. Main Building & Cook room and Bath room finished. Roof to be put on piers and a part of covered way. —

Married Quarters.

Block No. 6. Work carried on Departmentally with exception of Roof. Repairs being put on roof. Siding commenced. 4 Quarters floored. The 10 sets of out houses finished with exception of some pointing and Chumam borders. —

Verandah on South face of Barracks.

172 feet long finished in February last. —

Drains and Cisterns in Barracks.

Carried on Departmentally. All the drains finished. Large Cistern and Bullock walk with peccotta frame finished. Four small Cisterns finished with exception of plastering and wooden shutters. The shutters to large Cistern are not ready. —

Coffee Room & Station Shed. — Completed departmentally. —

Malabar.

1865

Civil Buildings.

3. New Central Jail.

Coimbatore.

Up to end of April 1864 Rs 30,660. 1.2 were expended. From 1st May 1864 to 30 April 1865 Rs 75,922. 6.0 have been expended, making a total expenditure of Rs 106,582. 10.3. to 30 April 1865.

The Plan of the Jail is as follows.—

- I—Outer Wall of 12 sides or divisions.—
- II—Inner Wall of — Do. — Do. —
- III—Radial Cells and Workshops.—11 Blocks.
- IV—Centre Wardens House.—
- V—Outside Jailers Quarters.—

Work as follows, has been executed to 30 April 1865.

- I—Outer Wall—3 sides completed to full height of 16 feet. 3 sides built 12 feet high. 2 sides built 4 feet.
- II—Inner Wall. 4 sides, foundations & basement built.
- III—Radial Cells and Workshops.—3 sides blocks.—
- 1—Workshop.—
- 2—Radial Cells. Nothing done.
- 3—Workshop—Radial Wall built 8 ft (out of 12) masonry of shop completed. 6 trusses for roof ready.
- 4—Radial Cells. Foundation excavated out.
- 5—Workshops and Radial Wall. Completed.
- 6—Radial Cells. Cells built and springing of arches i.e. 8 feet. all the doors and windows put up.
- 7—Workshop and Radial wall. Masonry completed, and all the roof timbers, including 19 trusses, ready to put up.
- 8—Radial Cells. Masonry of cells built 4 feet. all the doors and windows ready.
- 9—Workshop and Radial Wall. all Masonry completed terrace roof nearly completed.
- 10—Radial Cells. Foundation and Basement built.
- 11—Workshop and foundation & basement built.
- IV—Centre Wardens House. Foundations and basement built. all the doors and windows ready.
- V—Outside Jailers Quarters. Walls built 9 feet high. All the doors and windows and roof timbers ready.

Communications.

4—New Coonor Ghant.

At the end of last Official year 9 3/4 Miles of the New Ghant were completed to bridge path, and the trace as far as Puarliar. By July the trace was completed to the foot and by the middle of October 1864 15 1/4 Miles of bridge path had been cut where practicable, leaving one mile through the plantations of Mr. J. J. Sanders on Mr. K. K. K. still uncut. Total length of trace 16 1/4 Miles.

The present state of Progress is as follows vizt.—

Part I—Coonor Bridge to the 1st Crossing of the old Ghant 4 1/2 Miles, with one zigzag. The hardest piece of the whole, to which blasting operations have been almost entirely confined. At 3/4 Miles from the top it crosses to coffee planter's road and old bridge, called "Stam's Bridge". Thus far is now open for traffic, the rocks having been sufficiently removed for the passage of carts, and all the tallohs bridged. a few paragraphs alone remain unfinished. In the 3/4 Miles have been constructed 2 Teak Bridges of 12 feet span, 28 large revetments, 11 drains, with cut covering stones 566 feet long and 30 small stone drains, besides the removal of 13 distinct masses of rock, nearly the full width of the Road way, also small rocks and boulders innumerable. At "Stam's Bridge" the

abutments for a Teak Span Bridge of 56 feet span, to replace the present double span planter's bridge (hardly safe for even Ballast Traffic), are nearly complete. and the timber work in progress. Thence to the 1st Crossing the Earth work is almost all completed to 18 feet & much blasting has been done. Total Cost on this portion of the Ghant including tools during the past Official year Rs 26,815.—

Part II—1st Crossing to Pungalow site on old Ghant, 4 Miles, with 7 zigzags. 1/2 mile has been opened to 18 feet, 1 1/4 Miles to 12 feet the rest bridge path and rocks. Expenditure Rs 4,635.—

Part III. — Pungalow Sitr to Burliar Bridge $3\frac{3}{4}$ miles with 3 gigaas. In this portion 1 mile of Coffee plantations remains untouched on the rest Rs. 2335 have been spent on Earth Work giving 2 miles 12 feet, the rest bridge path and rocks. —

Part IV — Burliar Bridge to the foot of the Ghant 4 miles with 1 gigaas, $1\frac{1}{2}$ miles of Earth Work opened to 12 feet, $1\frac{1}{4}$ miles 10 to 12 feet and the rest bridge path and rocks. — at a cost of Rupees 8015. —

It is expected that Sections I & IV and most likely part of III will be opened in 1865/66 if arrangements can be made with Messrs. Sanderson and Skerblott for passing through their estates. —

	Miles	Length	Expenditure	Open bridge	12 feet	Bridge path	Surveys
Coonoor Bridge to Cropping	$4\frac{1}{2}$		26815	1			
Cu to Pungalow Sitr	4		4635	$\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$	
" " Burliar	$3\frac{3}{4}$		2335		2	$\frac{3}{4}$	1
" " Foot	4		8015	$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$	
Total	$16\frac{1}{2}$		41800	6	5	$4\frac{1}{4}$	1

5. — New Tamborcherry Ghant.

Below Ghant. — The Earth Work and all the Culverts between Poodapady and the Pinyery Vullah have been completed; also the abutments of the Stone River Bridge and one of those of the Pinyery Bridge. The Earth Work on to the foot of the Ghant is also completed, but 2 small bridges yet remain to be built. —

Ghant. — Of the actual ascent 4 miles are now used by carts, the width varies, but at no place is it less than 12 feet, wherever it is not rocky it is considerably broader; before the rains it will be available for another mile, and on this portion it will be width. —

Malabar

6. — Bridging the Road below Charnady Ghant.

Many Mullah Bridge.

South Canara — The Piers and Abutments have been completed, the arches turned, and the Wing Walls have been raised to a height of 14 feet. It was thought advisable to give the Piers and Abutments an additional height of $1\frac{1}{2}$ feet in order to allow sufficient waterway. — Expenditure in 1864/65 Rs. 4436. 13. 2 total expenditure up to 30 April 1865 Rupees 6595. 12. 7. —

Bellhangady Bridge. — The Piers and Abutments have been completed. The Drums, sleepers, and struts have been laid and the planting of the first span nearly completed. Expenditure in 1864/65 Rs. 6838. 1. 2 total expenditure up to 30 April 1865 Rs. 10,458. 3. 1. —

Kedigal Bridge. — The Piers and Abutments have been completed 58 Drums have been laid across the spans, of these 45 are in their final position, with sleepers and struts complete. Wood Work in a forward state. Expenditure in 1864/65 Rs. 10,315. 8. 2 total expenditure up to 30 April 1865 Rs. 12,795. 2. 7. —

Moondajesh Bridge. — From further information received, it was thought necessary to increase the height of this Bridge $2\frac{1}{2}$ feet in order to provide sufficient waterway. The Piers and Abutments have been completed. The Drums, sleepers and struts have been fixed and the planting has just been commenced. —

Expenditure in 1864/65 Rs. 4925. 3. 5 and total up to 30 April 1865 Rupees 7,646. 14. 9. —

Progress below Charnady Ghant. —
Cubbinahullay Bridge. — The masonry of this Bridge has been completed according to the Estimate with the exception of the cut granite facing of our Pier. Several of the Drums collected two years ago having been found in a bad state. Contract was entered into for the supply of the new ones. The Contractor failing to perform his engagements, the completion of the work has been delayed.

The Beams have now been laid across two of the spans and it is intended to make a Temporary Roadway before the Monsoon. Expenditure in 1864/65 Rs 3249. 10.7
Total Expenditure up to 30 April 1865 Rs 5294. 2. 10.

Bridge No III 22 (56) Mils. — The Masonry of this work has been completed and nothing now remains to be done but the filling of the approaches. Expenditure in 1864/65 Rs 1439. 9.3
Total Expenditure up to 30 April 1865 Rs 2,110. 11.8.
Cadamballah Bridge. This Bridge is completed with the exception of a heavy cutting in the western approach, which will be done during monsoon. Expenditure in 1864/65 Rs 12427. 11.2
Total up to 30 April 1865 Rs 4,650. 9. 8.

Villapet Bridge. — The arch is completed and the wing walls have been built to height of $7\frac{1}{2}$ feet. Expenditure in 1864/65 Rs 1627. 8. 5
Total up to 30 April 1865 Rs 1956. 10. 5.
Nallal Bridge. — The foundations of this Bridge have been laid but, but too late in the season to admit of the arch being turned. Expenditure Rs 532. 8. 0.

Munjerabad Grants Improvements. — Traces Nos 1 & 2 have been opened out to 4 yards width, the Road has been greatly improved in cuttings Nos 2 and 3 and Trace No 16 has been completed. Expenditure in 1864/65 Rs 2206. 8. 0

The whole of the works in this line have been greatly delayed through sickness and which has also increased the cost of execution.

7. Kuthathu Bridge.

This Bridge with its approaches, is being carried out on an Estimate of Rs 50000. — The bridge is a wooden Truss bridge of 4 bays of 64 feet each. The Wing Walls, abutments, and piers are built on rock (previously tabbed) of brick in stone lime mortar, faced with cut granite laid in flanch bond. — The length of the Piers & abutment

Malebar
Railway Junc

is 18 feet, with triangular cutwaters $\frac{1}{2}$ the breadth of the piers. The top breadth of the abutments and piers, is 6 feet with a base of 10 feet giving a batter of 1 in 13. The wing walls are 28 feet long with a curve outward of 2 feet.

The Masonry has been carried up the requisite height to receive the Girders, which is 27 feet above summer level.

The whole of the Girders and Trussers have been framed, the former scarfed with a double scarf joint, supported by iron plates, and secured by iron bands, securely bolted together, and the chief portion of the iron work consisting of stirrup piers, foot straps, and triangular brace plates, have been prepared and acquired.

The approaches to the bridge are formed by embankments through rice fields, and cuttings through laterite. The whole of the Earth Work has been finished. A portion of the side slopes turfed, and the material for the surfacing has been heaped on each side of the Road ready for spreading, as soon as rain falls to consolidate the embankments.

8. Palandole Bridge.

This work is situated on the Road from the Pullant Railway Station and Thunk Road No 5 (7 Miles from distant) to Lingadihoram, Munjery, Wandoor, & Local Road, Thollakul, consists of 5 bays of 70 feet each. The

Abutments are 16 feet broad at base and 12 feet wide on top, the batter being on the inside which is also supported by a counterfort. The wing walls are 28 feet long with an outward curve of 2 feet. The Piers are 18 feet long with circular cutwaters, and 12 feet broad from base to 9 feet above summer level, from whence they "tumble in" to 9 feet. The south abutment is built on rock, and its wing walls in steps on hard laterite.

The first pier is built on rock ~~cut~~ which was previously cut in steps. The second, third & fourth piers on a sandy bottom at a depth of 10 feet below summer level.

which is a mere channel in the centre of the river, and the North Abutments and Wing Walls (the latter in steps) on clay, the natural bank of the River. The foundation of the second pier has been protected by permanent sheet piling braced together, in addition to which, large granite boulders have been placed in front of the upper Cutwater. This pier being exposed to much scour and in the deepest part of the River.

The South abutment, and Wing Walls, first, third, and fourth piers, and North Abutment, and Wing Walls, including foundation have been raised the requisite height, vizt 20' 6 1/2" 24' 34' 37' 1" and 32' 7" and the second Pier 18 feet on which 19 feet have yet to be raised. The whole of the masonry is of laterite in stone lime Mortar. The piers worked in old English, and the internal corners in heavy bond. The base of the first, third, and fourth piers, and north abutment have been plastered. The superstructure of the Bridge which will be 26 feet above summer level is of the American truss description, of Erol wood. The trussers of which have been framed.

The South approach to the bridge is an embankment through rice fields, the whole of the raising to which has been completed. The north approach consists of an embankment (west the bridge) and a cutting through laterite. This approach is under progress.

The Estimate amount for the bridge and approaches is Rs 22,810-0-0. & the expenditure up to date is Rs 18,241-11-10.

9. The number of Irrigation Works of each kind which have been repaired is as follows:-

	Combat	Malabar	South Canara	Total
Tanks				
Channels	23	1	"	24
Amicuts	32	"	"	32
Irrigation Dams	16	"	"	16
	"	2	"	2

	Combat	Malabar	South Canara	Total
Sluices	1	1	"	2
Irrigation Drains	"	3	"	3
Calengulaks	"	"	"	"
Sand Sluices	2	"	"	2
II The number of Miles of Road & Canals kept in order:-				
Miles of Road	603	430	370	1419
Miles of Canal	"	3	"	3
III The number of Buildings maintained in repair:-				
Military	12	47	17	76
Civil Buildings	27	142	130	307

10. There has been material fluctuation in the rates of labor and materials since last year. In parts of Mysore ^{only} to make up for lost time, and in consequence of localities being unhealthy, exceptionally high rates have had to be offered to get work done at all.

11. The season in Combat District has been very dry, but generally healthy. In Malabar, Fever has raged below the Ghats so as to prevent the full expenditure of the allotments for the Tambercherry & Star Moor Ghats. In Canara Fever and Cholera have been prevalent below the Munjeratad Ghats, and have caused great difficulty and extra expense in carrying on the Bridge work and improvements to the line.

12. Great care is still taken in this Division to circulate small coin in the country as much as possible, every Range Officer and subordinate sending in a monthly Return of the Coins in which they are cashed.

13. Besides the works specifically enumerated, New Traces of the Goodabar and Priah Ghats, in Mysore

2

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Walter Lunt Col R
Superintendent Engineer of the
Division

Superintendent Engineer's Office
Cannon 1st Division
June 1865

71560 2/15

Pro- for July

No 2229

From
The Superintending Engineer
7th Division

To
The Secretary to Government
Depart^t: Public Works

No 26 Madras

Dated 1st
Reck^d 20 } June 1865

Enclosures 11.

Administration Report
of 7th Division for the year
1864/65.

1st 27

Errata. In form A accompanying the Administration
Report for South Canara Districts for 1864-65.

District	Military	Civil	Agricultural	Com. & Mun.	Miscellaneous	Total
South Canara						
Tot	" " "	1,244 14/7	" " "	5,600 6/9	" " "	60,250 15/4
Road	" " "	5,244 14/7	" " "	5,600 6/9	" " "	61,250 15/4

Goodaloom 3
3rd June 1865 3

M. Walker
Superintending Engineer 7th Div

Wynard

71502
No 2229

Expenditure upon New Works during the year 1864/65.
accomplishing the Admini-
stration Defend. for South
Canara District for
1864/65

88

Expenditure upon New Works during the year 1864/65.

District	Civil										Remarks
	Military Buildings	Mutual	Public	Education	Religious	Charitable	Sanitary	Police	Other	Miscellaneous	
Coimbatore	92350	62	95255	11	15256	11	15256	11	15256	11	225000
Malabar	92350		62	95255	11	15256	11	15256	11	15256	225000
South Canara											225000
Total											225000

Supp. Engineer's Office, P. O.
3rd May 1865

W. Wynard Esq. & Co.
Supp. Engrs. & Division

11/11/11

10

Misses M. & J. M. C.
New York, N. Y.

La Lata

From
The City of London

to the Mayor of London
1779

Dated May 1865

1779/229/05
B

Reference to the
Mayor of London
1864/05

Expenditure from Income Tax Funds in South Canara during the year 1864/65.

St.	Work.	Estimate	Expend ^{re}		Remarks showing progress made.
			No. and date of sanction	up to 31 st of the pre. year	
	Improving and draining Jondapoor & Hulladi road.	880	No. 81/09 dated 28 th Nov. 1864.	87 1/2 36	Road widened, & repairs executed.
	Improving and draining Hebbra and Pockhany road.	660	do	..	Not commenced.
	Improving and draining Karetkal & Padbidley road.	1800	do	1778 153	arched drains Nos. 1, 2, & 3 built, & road improved here and there.
	Improving and draining Moolky and Moodbidley road.	1800	do	2180 109	Road opened throughout to 4 & 6 yards width & a bridge built up.
	Improving and draining Pootoor & Mubjeshwar road.	2500	No. 81/09 dated 28 th Nov. 1864.	2473 26	The portion between Pootoor & Villa opened out for carts & about 3 miles of road bet. villa & Mubjeshwar opened the bridge path.
	Extension of the Quay at Man- galore.	10713	No. 91 dated 24 th Feb. 1865.	867. 5* 1040	The 1 st portion, 192 feet in length nearly completed - 96 yards of rough stone wall given way last year. Rebuilt. & continued to 90...
Total Expenditure Rupees				8947 16	

Sup^r. Engineer's Office,
7th Division

30th May 1865.

W. Walker Lieut. Col. R.E.
Sup^r. Engineer, 7th Div.

1000
1000
1000

Recommendation to
Admission to
the rank for 1884. 88
The. Aug. 9. 1884
to. The. Secretary
200. 11.

1884-1885

C

Expenditure from
the same. 1884-1885
with the same.
during 1884. 88.

Expenditure from Income Tax Funds during the Year 1864/65.

Project	No. 1.	Estimate of work	Amount paid	Expenditure in 1864/65	Expenditure in 1865/66	Remarks showing progress made upon such works as are not entered in the Report & sums (if any) expended from Imperial allotment.
Road from Malapuram to Panangy		61,500	13,209 7 6	13,209 7 6	13,209 7 6	Work of 1864/65. Bridge in progress - 1864-10-10. Expend in 1864/65 from the Imperial Fund
Mine. Madony drains and Timber Bridges between the Perak Pass and Mysore frontier at Rawahy					216 10	Bridges and Chunnaw contracted for preparation of former in progress.
Constructing a Culvert on the road from Manantody to the Mysore frontier.		1800			50	
Road from Manantody by Seriate to Chumbachery Ghat.					2640	Altering the existing Road about 3 miles from Seriate. Commencing road for foundation of Bridge at Seriate. Building embankment. Approach to Chalofoze bridge, building bridge at Perak Pass and preparing the trials for new bridge.
Road from Panamaram by Kullpatta to the head of Chumbachery Ghat.					3344 2 4	This is in addition to Rs 13,201-11-0 from Imperial
Road from Karkh to Pippahador		13,519 7 6	12,162 11 11	12,162 11 11	12,162 11 11	Sum has been expended on the Karkh Ghat. Estimated Rs 27,500.

Supy. Engrs Office, (Division)
31st May 1865

Quartermaster H. C. R. & Co.
Sigsbee & Co. Division

Expenditure from Income Tax Funds during the year 1864/65.

Particulars	Work.	Costs	No and date of sanction	Expenditure up to 31 st April of the current year.	Expenditure in current year.	Remarks showing progress made upon such works as are undertaken in the Report and sum (if any), expended from Income Tax funds allocated.
Opening New Lines of Goodaloor Ghant.			G.O. No 3182 of 4 th Novr 1864 and 102 nd 12 th January 1865.	" " " "	" " " "	Alotment of Rs 794.15-6 drawn & drawn for in its entirety through the South Bengal Range office of Calcutta District.
Raising and Shaping Drains and Travelling the Roads having this in view near Astanand.		2443	3292 of 13 th Novr 1863 and 102 of 12 th January 1865.	1483 10 4 1869 . 10	Completed.	
Graveling Road from Legin Ghant to Astanand Nagar.		524	Do	161 10 3 1864 12 10	Do	
Burgoor Ghant New Line.		"	2813 of 28 th Sept 1863	2366 . . . 1864 . . .	In Progress from Imperial Funds. Specially noticed in the Report.	
Total New Works.				4011 5 . . 2837 13 8		
Maintenance Allowance of Public Roads.		allot				
Rs 2 Lakhungalam to Dohang via Atang 32 Miles at Rs 25 per Mile.		640	224 of 29 th Jan 1857	" " " "	Rs 00 . . .	Road kept in repair.
Do Rs 7 Lakhungalam by Pathangully and then to Chintabur 40 Miles at Rs 25 per Mile.		820	Do	" " " "	815 13 9	Do
Do Rs 12 Lakh Road 5 from Waller Chuturn to Chitrore and Korumang with Lomanon Atankaf & Poinamang.		4675	1864/65.	" " " "	4574 12 11	Rs 00 a Bridge at Poinamang repaired at a cost of Rs 134. 00 0.
Railway Trackers 85 Miles at Rs 55 per Mile awarded by the Comptroller to Pathangully 26 Miles at Rs 25 per Mile.		650	G.O. No 3008 of 19 th October 1864	" " " "	597 12 7	Road kept in repair.
Lakhungalam by Chuturn and Lakhungalam to Matangolam 21 Miles at Rs 50 per Mile.		1050	Do	" " " "	1050 . . .	Do. Besides this, a sum of Rs 710. 13. 10 has further been spent on this line from Imperial Funds.
Dist Road Rs 18 Paraparam to Pallaram 30 Miles at Rs 25 per Mile.		300	224 of 29 th Jan 1857.	" " " "	300 . . .	Kept in repair.
Do Rs 23 Lakh Road to Pathangully 1531 Miles at Rs 25 per Mile.		1531	Rs 200 of 12 th Jan 1864.	" " " "	1470 13 9	Do
Do Rs 24 Pathangully to Chintabur Road.		1150	Do	" " " "	1149 14 3	Do
Total Repairs.					14539 3 3	
Grand Total Income Tax Funds.					13374 . 11	

Supp Engrs Office & Co
Comptroller. 31st May 1865

W. Walker
Supt Engrs & Co

Accompaniment to
- introduction Report
of 1864/65

from the day 1864/65
to the day 1865/66
M.D. - 1865

date { 1865

C.

Exposition from 1865
to 1866/67
year 1864/65

Page

Accompaniment
to. Administration
Report for 1881-85.

to Mr. & Mrs.
17th St.
No Secretary.
20th St.

17th St. 1885

17

Expenditure from
Admission Road No.
1000 in 1881-85.
during 1881-85.

Expenditure from District Road Fund during the year 1864/65.

Particulars	Work	Amount expended	Remarks regarding progress made towards completion
New Road from Cannon to Khatagary.		740 3 6	3 miles 2 furlongs 12 yds. brick-paved out of which 1 mile 6 furlongs opened to horse traffic.
Do Between upper Cannon and Wellington.		269 14 -	830 yds. Brick. Path Completed, 350 yds. 10 to 12 feet Road Completed.
Road from Chagary to White Laps.		536 7 -	3 miles brick-paved opened for horse and traffic. Many large rocks removed.
Road from Cannon to Khatagary.		587 14 6	1 mile 6 furlongs & 1/2 yds. track, brick-paved where practicable.
Road from Commercial Garden to Wellington.		100 - -	880 yds. Brick-paved Completed, several rocks blasted and removed.
Constructing Chattram in the head of Seta.		50 - -	and the whole opened for horse and foot traffic.
Do Sengawar Side Gate Road.		195 1 7	Completed.

Total New Works.

2477 8 7

Maintenance of Road from Goodalose to Chatterham.	485 8 2	Kept in repair.
Patilade to Chatterham Road.	146 1 -	Stakeholders had fully worked out in consequence of the late date in which sanction was received by the Range Officer and when it was not possible to lay out the money advantageously.
Do to Patilade Road.	243 9 8	
Gazettedly Ghant Road.	998 5 10	Kept in repair.
Road to Chattram by Chatterham.	740 - -	
Chatterham to Patilade.	115 13 8	Altogether not fit for use for the same reason as given above.

580 - - Kept in repair.

655 15 8

Repairing Road from Chattram to Chatterham.	389 4 -	Do
Repairing Road from Chattram to Chatterham.	100 - -	Necessary repairs executed.
Repairing Road from Chattram to Chatterham.	67 9 -	Road repaired.

Chatterham to Chattram.	79 42 1 8	Kept in repair from late collections.
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Do by Sengawar Road to Chattram.	14 11 - 6	Kept in repair from late collections.
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Repairing Chattram on the Malabar Boundary.	133 13 6	Completed.
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Wellacott Chattram.	119 11 3	Do.
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Macumbull Chattram.	68 14 8	Do
---------------------	---------	----

Meringpatt Chattram.	50 8 -	Do
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Andijors Chattram.	26 - -	Do
--------------------	--------	----

Alkany Chattram.	50 - -	Do
------------------	--------	----

Tranckam Chattram.	125 6 11	In Progress.
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Moston Chattram.	143 4 -	Do.
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Odoyam Chattram.	322 15 1	Do
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Jeelupla Chattram.	298 4 2	Sanctioned in 1863 and 1864.
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Total Repairs.	15,404 3 2	
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Grand Total.	17,881 11 9	
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Repairing School House at Chatterham.	116 - -	Completed.
Total Educational Fund.	116 - -	

Supp. Range Office 7th Dec 1864.
Admstr. 30. May 1865.

W. Walker Esq. Secy. to the Range.

7.

7/18/2229/05
dated 5

08

of 1864/65 from

Accompagnement de
Adrien Paton et de

Expenditure from District Road for Funds during the year 1844/45.

District	Work
	Wichita road work
	New Works Communications
Kalabar	Rebuilding the bridge over the O Munyadi Road on the road from Puttanby to Wundoor
do	Rebuilding a bridge over Buttor River at the foot of the Coatinghat
do	Constructing a new Bridge across Looda River
do	Constructing Rafts and Maintaining Carriers on Wynad
do	Rebuilding Pully Lock
	Carried forward 1267633

District	Work	Amount expended	Remarks regarding progress made towards completion
Malabar	Brought forward - 1856 3 3		
	Rebuilding an old bridge on the road between Vellody and the lake - 246 14 2		Completed
do	Rebuilding the Annamangam bridge 238 7 4		The pier raised nearly full height, the other in progress
do	Improving the road from Kuttanay to the bathhouse at the same place - 245 14 2		Cartwork nearly completed and 2 timbers of 2 inch each 6x8 completed
do	Reconstructing the Kachiaravoor bridge on the road from Chittur to Kanden - Chery Ghent	2453 14 10	Reigning of bridge
do	Rebuilding timber on road from Pellopully to Poppully	140 -	Completed
do	Plating a sandy road from Chittur to Chery the Chittur road	224 1 2	Cartwork completed, one timber 2 inch 6x8 complete, 2 timbers 6x8 completed, and 2 timbers of 2 inch 2 inch 11x11 completed
do	Rebuilding a tunnel on the road from Palghat to Chittur	526 12 1	Work almost completed
do	Rebuilding a tunnel on the road from Palghat to Poddanuragom - 520 -		Completed

do	Rebuilding a road from Edamank to Chittur	2356 14 11	Cartwork of 3 inch 6x8 completed, 2 timbers 6x8 11x11 and 1 of 4x4 1 1/2 inch 10x12 inch 6x8 by foot
do	Rebuilding a tunnel on the road from the Chittur cut to the big bazar at Palghat	200 -	Completed

Total for two Rs 2995 2 3

Work	Amount expended	Remarks regarding progress made towards completion
<u>Repairs</u>		
Repairing Shashilly bridge on the road from Sillithery to Cannanore 200 1.	Completed	
Pitto - Kothakadavams bridge on road from Pitto to Pitto 491 10 1/4	Completed	
Pitto - on Trinity bridge on road from Sillithery to Pichal 627 8 4	Completed	
Pitto - Road from Culloy to Koylpoor 132 7 10	Completed	
Pitto - Bridge on road from Mullurapooram to Candally 48 2 2	Completed	
Pitto - Parapparamba Bridge 1295 5 11	Completed	
Pitto - Ellattas bridge on road from Calicut to Kadappery 137 6 8	Completed	
Pitto - Bridge on the Cannally Canal 80 8 1	Completed	

Repairing timber of Annasayam bridge 145 1 1	Completed	
Repairing Chark Kadavams bridge on the road from Sillithery to Chappanary 92 14 4	Completed	
Pitto - Sheroor bridge on the road from Calicut to Mandoor 110 2 1	Not yet ready, but bridge washed away	
Pitto - Kothakadavams bridge on the road from Pichal to Cannanore 77 10 4	Bridge carried away by a flood while the work was in progress	
Pitto - road from Karamellur to Pappanambal 165 4 1	Completed	
Pitto - road from Culloy to Koylpoor 498 7 1	Settles of road near Cannally repairs	
Pitto - road from Sillithery to Mandoor 500 1 1	Completed	
Repairing road from Culloy to Koylpoor 997 6 8	Completed	
Pitto - bridge on road from Culloy to top of Ghaut 495 1 3	Completed	
Pitto - Carapparamba Bridge - carries forward	263 10 8	Completed
	8812 2 6	

District	Work	Remarks regarding progress made expended towards completion	
	Repairs cont'd		
	Brought forward— Repairing road from Palyant to Maddalasherry via Aulattoor	6812 36	1481 42 Work almost completed
	Pitto—Liberal at Collocan on coast road from Cannanore to Killycherry	20 12 Completed	
	Pitto—Coast road from Cannanore to 'Makel' bridge	2745 58 Completed	
	Pitto road from Puttanthy Railway Station to Mugaadipparam via Pottan- dale	2555 1	Work almost completed
	Pitto—Spanning of bridge	465 9 9 Completed	
	Pitto—Middion bridge on road from Coast to Killycherry	49 13 6 Completed	
	Pitto—Canals, the old bridge on the road from Killycherry to 'Makel'	890	Completed
	Pitto—Support to 'Makel' bridge	65	Completed
	Annual repairs to portion of Palyant and adjacent roads lying within the District	170	Completed
	Repairing Venkalar thottu bridge on road from Pottanvargam to Aulattoor	400	Completed
	Pitto—Kecimillor bridge	259	Completed
	Graveling road in Syalam Paddy field on road from Killycherry to Peringalloor	382	Completed
	Repairing road from Maddalasherry to the limits of the District and Mannipadath	2200	Work almost completed
	Pitto—road from Madapooram to Muddacherry	964	Completed
	Pitto—road from Coattinny to top of Gland	480	Completed
		Carries forward 35386 119	

District	Work	Amount expended	Remarks regarding progress made
Malabar	<u>Repairs continued</u>	35386 8 11	Completed
do	Repairing Road to Chathan	121 15-10	Completed
do	do ditto — Yellatoo Bridge	10 2 -	Completed
do	do ditto — portion of road and repair bridges & tunnels from Angasipora to Mundoor	497 12 -	Work almost completed
do	do ditto — a tunnel on road from P. lality to Codanayam	118 2 10	Ditto
do	do ditto — road from Chavhanth to Eitallah	952 4 -	Masonry works under progress
do	do ditto — a tunnel on road from Yellapully to Pookpully	24 -	Completed
do	do ditto — a tunnel on road from Nairacollum to Cheppolecherry	49 4 7	Completed
do	do ditto — five tunnels on road from Palghat to Calingose	50 -	Completed

do	do ditto — Sarsoor Bridge	211 -	Completed
do	do ditto — road near the railway bridge Pungabon, and 3 bridges which were in bad order	27 15 -	Completed
do	do ditto — road from Chodapomam to Peringalam Ferry	1523 -	Completed
do	do ditto — Koodacadamoo bridge	156 4 -	Material being collected
Total Repaired		1007 8 -	
Total of Expenditure from the District Road Fund		6992 10 3	

District	Work	Amount Vouchers regarding progress made expended towards completion
Malabar	Educational & General Constructing Provincial School at Calicut	2952 67 Completed
do	Ditto Sited & connected to the school at Pillecherry	665 10 8 Completed
	Total New Works	2918 1 3
	Repairs	
	Shedding the Verandah of the school at Pillecherry	24 5 4
	Total Repairs	24 5 4
	Total of Expenditure from Education	2942 6 7

Supy. Engrs. Officer, P. D. }
 Coimbatore 31st May 1885 }

W. Walker Esq. Secy. to Govt.
 Engrs. Division

119

Alaska

from

The U.S. Engineer

to the U.S.

to the U.S. Engineer

to the U.S. Engineer

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Statement showing the New Works noticed in the Administration Report for the year 1864-65

331

District	Works.	Paragraph of Report in which noticed	Amount of Estimate	Order sanctioning the Estimate	Expenses to the end of the preceding year	Original allotment for the year under report.		Net allotment for the year under report		Actual expenditure during the year under report		Remarks
						From Imperial Fund	From Local Fund	From Imperial Fund	From Local Fund	From Imperial Fund	From Local Fund	
South Canara	Beltangadi Bridge on Charnady road		11,100		4,120 1 11					6,338 1 2		
	Moondajak - ditto - on - ditto		7,920	G.O. No. 3348 of 22 nd Nov 64	2,719 11 4					4,925 3 5		
	Needagal - ditto - on - ditto	6	15,000		2,479 10 5	17,420		26,036		10,315 8 2		
	Manny - ditto - on - ditto		6,120		2,158 15 5					4,436 13 2		
	Waltageh ditto on the 17 th mile of Munnagerabad road		20,140		14,787 1					26,515 9 11		
	Bridge No 3 near 22 nd mile of - ditto		18,40	No 2134 of 6 th Sept 64	229 2 - 14 00			1,500		1,627 8 5		
	D ^o W. & west of Wallada on - ditto		1,756	No 622 of 14-3-63	721 5 5 10 35			1,235		1,439 9 3		
	Caddamballa Bridge on - ditto	6	875	D ^o	118 7 10 7 56			356		414 2 -		23197-15-3
	Cabbinsulla Bridge on - ditto		6,139	No 134 of 15-1-64	1,923 5 6 4,216			2,809		2,727 4 2		5066-13
	Improving Road between Mangerabad & Chant		5,272	No 1702 of 10-6-64	2,084 8 3 2,702			3,102		3,209 10 7		31265-15-3
	Communication between Mangalore & Cannanore by Bitta & Kopsdroog		15,882	No 1702 of 10-6-64	5,075 13 3 10 139			9,002		9,418 2 7		
	Minor Bridges & drains on ditto		2,900	No 1799 of 21-6-64	" " " 2,200			2,200		2,309 8 -		

Supg. Engrs Office 7th Div
Coonoor 31st May 1865

Walker & Co. R. E.
Supg. Engrs 7th Div

Account of the
Administration
of the for 1884. &c.
The City of London
The Secretary.
D. D. D.

1884/85

The
Statement of the
and new works no.
need in the City
Administration Co.
for 1884. &c.

Statement showing the new Works noticed in the Administration Report for the Year 1864/65

District	Works	Proposed by insubordinate Officers	Amount of Estimate	Order sanctioning the Estimate	Expenditure up to the end of the year according year	Original estimate present for the year under report		Settlement for the year under report		Actual expenditure during the year under report		Remarks	
						From Local Fund	From District Road Fund	From Local Fund	From District Road Fund	From Local Fund	From District Road Fund		
Malabar	<u>Military</u>												
	Additions to the Infantry Barracks at Cannanore including Married Quarters	2.	168	G.O. No. 118 of 15 th April 1864	.	.	668	.	668	.	825	14 6	.
			3750	G.O. No. 236 of 15 th Aug. 1864	223	10	3526	.	2426	.	2398	2 1	.
			10000	ditto	710	.	9200	.	7800	.	7672	8 7	.
			3280	ditto	.	.	3280	.	2480	.	2115	9 6	.
			16000	ditto	.	.	16000	.	15000	.	14703	3	.
			8720	G.O. No. 255 of 25 th Feb. 1865	.	.	8720	.	7200	.	2929	1	.
			8400	ditto	.	.	8400	.	7200	.	6771	12 1	.
			17728	G.O. No. 352 of 7 th Feb. 1865	42625	7 2	15000	.	22153	.	19402	12 1	.
			340	G.O. No. 353 of 7 th Feb. 1865	.	.	340	.	340	.	227	11	.
	12881	ditto	.	.	53254	.	67527	.	5756	10 8	.		
	<u>Communications</u>												
	Thimbercherry Ghaut	5.	147550	G.O. No. 1532 of 26 th Aug. 1864	.	.	50000	.	37340	.	34652	11 7	.
	Hulatty Bridge between Palghat and the Rail- way Station	7.	30000	G.O. No. 339 of 2 nd Feb. 1864	.	.	20000	.	24410	.	24724	9 1	.
Bridge across Palandole or Koota River	8.	30370	G.O. Chief Engr. No. 108 of 15 th October 1864	11248	8 6	12168	District Road Fund	10000	District Road Fund	699	2 9	.	

Supg. Engineer's Office 7th

Supg. Engineer's Office 7th Div.
Cannore. 1st May 1865
Camp R.P.

M. Walker Lieutenant R.E.
Supg. Engineer 7th Division

Malabar

Now

The High Engineer
17/10/85

to

The Secretary to Govt.

D. P. O.
Calcutta

Calcutta (Mysore)
17/10/85

Recd.

17/10/85

D. P.

Statement showing the
how much was paid in
the Administration of
land for the year 1884/85

Statement showing the New Works noticed in the Administration Report of the Supg. Eng. 7th Division for the year 1864-65.

District	Works.	Sanitary, public, & other.	Amount of Estimate	Expenditure by the Estimate	Expenditure by the preceding year.	Original allocation for the year in the report.	Net allotment for the year in the report.	Actual Expenditure during the year in the report.	From Govt. Funds	From Local Funds	From Govt. Funds	From Local Funds	Remarks.
Military													
	Lawrence Asylum Cochin	1.	11,50,000	—	45518 3 6	1,50,000	—	81912 4 7	—	—	84252 11 5	—	* Exclusive of Rs. 963.3.7 recovered in 1864-65.
Civil Buildings													
	New Central Jail at Coimbatore	3.	1,80,000	—	30660 1 2	60,000	—	75459	—	—	75922 9 1	—	
Communications.													
	New Cochin Canal.	4.	—	—	8549 2 8	—	—	42434	—	—	40781 5 10	—	
	Burghoor Canal and Road to connect Mysore with the Grand Junction Rail- way Station at Erode.	—	—	—	2366	—	—	1124 11237	—	—	1101 4 3 1124	—	@ Expenditure from Govt. & Local Funds

Coimbatore.

Supg. Engineer Office
7th Division
Coimbatore. 1st June

W. Walker Lieut. Col. R. E.
Supg. Engineer 7th Division

East Coast Canal

Administration Report for the year
ending the 30th April 1865.

North Canal between
the River Ruam and
Dugurajapattam
= 70 miles

Very soon after I took charge of
the Canal in April 1864, the
Salt department began to pour
in Complaints of its shallowness by
which the carriage of Salt to the depot at
Madras was impeded:—

This arose partly because the bed
of the Canal was, in some places, not deep
enough; and partly because the water's surface
had been lowered to an unusual extent in
consequence of the unusual dryness of the
previous season:—

The depth, between the Basin and a
point near Sheddiakuppam Lock, ranged
from $1\frac{1}{2}$ to $2\frac{1}{2}$ feet.—

2 The shallowest places were immedi-
ately deepened but the annual Maintenance

Accompaniment to the
Administration Report
of 1864-65 from
the Surveying Officer
of the day to Government
at Madras
Dated 1st June 1865.
F
M. P. 2229/65
Statement showing the
works done and the
Administration Report
for the year 1864-65.

allowance (100 Rupees per mile) would enable us to do no more: An estimate for deepening the first seven miles from the Basin was therefore sanctioned and this amount, 7000 Rupees, was expended within the year: —

7000
11,800
3271
22,071

With the same height of water as that which obtained in May 1864, the depth throughout these seven miles is now about $3\frac{1}{4}$ feet: —

Particular attention was paid to the disposal of the spoil at the rear of the existing Banks, so that it should not be washed into the Canal again;

3 The remainder of the main North Canal was kept in passable order with the maintenance allowance: There are however some portions which require an extent of deepening which that allowance cannot meet; But on this subject I will report again. —

4 The shallow condition of this Canal was also complained of by the salt department;

In May 1864 it varied from 1.9 to 2.6 in depth for 24 miles from the

Main Canal
South of Madras
(The Padras Canal)

Adyar, not including occasional short reaches of deep water: —

For the deepening of portions of these 24 miles an estimate amounting to 11800 Rupees was sanctioned.

This sum was satisfactorily expended within the year as also a further sum of 3271 Rupees which had been reserved for the purchase of Pughs Gardens, but which, near the close of the year, was transferred to the works account. —

5 For $17\frac{1}{2}$ miles from the Adyar the Canal is now from 2.10 to 3.10 in depth with the same water level as that of May 1864: *

From this point to the Seven Pagodas (at $28\frac{1}{2}$ miles) the depth varies from 2.1 to 3 feet: Thence to Padras, at the 35th mile, the depth is generally from 1.7 to 2.4.

In some places it is shallower and

* At that time the waters surface was 0.65 feet below mean sea level: the bed of the Canal is therefore now an average of 3.98 below mean sea level: This would give a depth of about $2\frac{1}{2}$ feet at low water of spring tides. —

in some deeper: —

From Sadras to the Palar a distance of 4 miles the Canal is generally too shallow to allow laden Boats to pass. —

6 At Pudupattanam two miles South of Sadras a Bridge is now being built and there the Canal is Bunded across: So soon as this Bund is removed the bed of the Canal should be cleared out to the Palar; but on this subject I will report again. —

7. The bottom of the Canal has always been kept as nearly as possible at 10 yards in width: In the work done during the past year this breadth was maintained up to nearly the 16 mile (a short distance beyond Covelong) which is the Southern limit of the salt traffic: —

South of this point, the breadth excavated was only 6 yards which I consider is wide enough for the present business on that portion of the Canal. —

8. These channels are grouped
Salt Channels
North

Salt Channels } grouped as follows. —

North	Kattur Village	2 channels
	Vallur	14 "
	Attipet	11 "
	Ennore	2 "
	Pulidivakkam	3 "
	Vayalur	11 "
Total		43 channels

9. In September 1863 an estimate amounting to 33900 Rupees was sanctioned for deepening and widening the Channels in Vallur, Attipet, Vayalur and Pulidivakkam: Of this sum ^{Rs} 13676 - ⁴ 6 - ⁰⁰ 6 were expended in 1863-4 and 20218 - ^{Rs} 6 - ⁴ 00 0 during the past year; leaving an unexpended balance (which is a saving) of ^{Rs} 5 - ⁴ 3 - ⁰⁰ 0 —

10 The channels which were deepened and widened last year are now in good order and are generally about 3 feet 3 inches in depth, but those which were repaired in 1863-4 are very shallow and must be deepened again this year: This necessity has arisen from the unusually high and rapid floods which swept over the salt

grounds during the last Monsoon owing to the breaches in the Kasāvaram dam across the Costilliar: Application has been made to clear these channels out again "on Emergency" and also some others not included in the estimate of 33900 Rupees, and it is supposed that the cost of doing the work thoroughly will be about 8000 Rupees. —

11 Besides the deepening of these channels a piece of new channel 300 yards in length was made to connect an existing channel in Pulidirakkam with the Backwater, at a cost of $925 - 7 - 4$. —

12 The Southern salt channels are. —

Kēlambākkam	2
Covelong	3
Pāyanūr	2
Kadambādi	1
Tamanjēri	3
Total Channels	11

Salt Channels
Sadras Canal

Of these Eleven channels four have been abandoned, within, I believe, a very short

time after their execution: —

The only work done to these channels during the past year was to deepen the two channels in Kēlambākkam and two of the channels in Covelong, "on emergency", at a cost of 631 Rupees. —

13 In connection with the Southern salt channels a Cutcherry and Watch Tower have been erected at Kēlambākkam and the Platform repaired; the amount spent on these works during the year was 1149-14-3 leaving a balance of $70 - 1 - 9$ to be expended during the current year: This sum would have been expended had not the Platform been occupied with salt. —

14 In concluding this part of my report I have to observe that the Management and Conservancy of these salt channels are in an unsatisfactory position.

They extend over a large area and are very numerous, and they appear to have been laid out and executed without any general plan having been laid down as to their best direction and extent: —

Most of the channels are old and I believe they were cut here and there whenever and wherever the necessity for a channel seemed to arise, without any attempt being made to lay down a regular system of channels: Thus it is that some have been abandoned, and that a much greater length has been opened, and must be conserved, than would have been necessary under a more systematic arrangement:—

They are so scattered and interlaced that without a Map showing them, the salt pans, and the platforms, no general plan can be devised for their improvement: I would strongly recommend the preparation of such a Map upon which could be marked any intended improvement in the salt works generally, and thus prevent useless expenditure for the future:— I have no one in connection with the Canal who could prepare such a Map, but I can get it done if Government will sanction the

Bridges

employment of a surveyor for the purpose. 15. The three Bridges on the South Canal vizt Guindy Bridge, the Lattice Bridge, and the Bridge at Sadras have always been in the hands of the Canal Superintendent;

The first and last, which are Brick Bridges, are in fair order; but the Timber Lattice Bridge requires thorough painting: an estimate is under preparation: The Parapets which were being destroyed by white ants were repaired during the past year.

Until the past year none of the Bridges on the North Canal were under our supervision; now two are in our charge, Manali Bridge and Tiruvattur Bridge: For the repair of the latter an estimate is under preparation.

The other Bridges vizt the Hospital Bridge, Elephant gate Bridge, and the Basin Bridge are still in the charge of the Range Executive Officers:—

On this subject I quite agree with the opinion of Mr Kennedy (for whom I am acting) that all the Bridges or none should be in our charge: There is no reason why the Canal Superintendent should have anything more to do with the Bridges than to fix the span, height, and form of ^{the} opening.

Whilst on the subject of the transfer of works, I beg to remark that I think the portion of the Canal between the Basin and the Coam, and all the works connected with it, should be transferred to our charge:—

During the past year I prepared a design for a New Bridge across the Canal at Tadras, and which is now being built by the Range Executive Officer:

New Bridge
at Tadras

In drawing this design I adopted 40 feet for the span instead of 60 feet which is that of the other Bridge: For Bridges over a Canal on which the traffic is so slow

as it is on this one, I consider that 40 feet span is ample. —

Planting trees
along the
banks. —

16 It has been the practice to plant trees along the banks of the Canal, and I have continued it; although I am doubtful whether it is not more pernicious than useful:

Trees are no doubt very beautiful but I have had so many provoking practical examples of how completely they take the wind out of ones sails, that I doubt whether Canal Banks are a proper plan to have them planted in close and continuous rows: —

17 For planting and taking care of the young trees there were 30 coolies employed, twenty on the South and 10 on the North Canal: — I reduced the number to 18, giving 9 to each Canal, and I intend to reduce the number still further this year, and endeavour to make them more generally useful: —

The number of trees planted during

the past year, and preserved were:—

North Canal 1040

South Do 665

Total 1705

18 Whilst on the subject of Planting, I would recommend that the piece of Pughs Garden lately purchased, the land formerly purchased from Mr. Norton, and a small piece of canal land on the south of the Adyar should be fenced in and planted in such a way as to make the operation remunerative.

In connection with this, one of the roads leading to the Adyar (probably that on the west of Pughs Garden) should be made and gravelled, and a landing place constructed and fenced in on the bank of the River:— The other road might be closed.

I recommend the retaining of the road on the west side of Pughs Gardens because it is in connection with the only Ford (on that part of the Adyar) which is much used

Mile Stones
Bench Marks
822

by, and seems to be necessary to the people:—

19 When I took charge of the Canal I found that the checking of measurements and soundings for Estimates, and for the calculation of finished or partially finished work was very uncertain and unsatisfactory; because there were no fixed points or marks to which one could refer either for distances or position, or for the comparative heights of the water surfaces when different series of soundings were made:— Every time an Estimate was prepared, and every time a work in progress was measured, the Canal bank had to be chained over, de novo, and as the zeros of no two series of measurements were ever the same, no one could tell where the work was situated more accurately than that it was somewhere between two well known Land Marks which might be several miles asunder:—

To one so familiar with the Canal as was Mr. Kennedy this state of things

might present no difficulty; but to me it was perplexing: Besides, the same reasons which induce us to place mile stones along roads are equally applicable to Canals. —

20. For these reasons I have had (very neatly numbered and finished) mile stones placed along both Canals; and also a rough stone placed at every furlong: — These furlong stones are numbered consecutively; — On the South from the Adyar; and on the North from the Ruam, as are also the mile stones: — In process of time the heights of the tops of these stones above mean sea level will be ascertained, and thus we can always refer measurements, whether horizontal or vertical, to points practically fixed and unalterable. —

X Note: The placing of the mile stones on the North Canal has not yet been completed. —

I have already found out the great value and economy of these stones in enabling me to check readily measurements whether for Estimates or for payments: — By planting three trees of some peculiar description at equal distance between each pair of Furlong stones, the horizontal position of any place on the Canal can be ascertained by measuring not more than 28 yards: —

Arrangements have been made for planting such trees during the next rains. —

21. On the North Canal the tolls are collected by the Revenue department who have a distinct establishment for the purpose with the multiplied checks usual in this Country in such cases: —

On the South Canal the tolls are collected by the Canal store Peon (whose pay is $5\frac{1}{2}$ Rupees a month) and on whose returns there is no practical check whatever: — I have no reason to suppose that any fraud is practised; but the arrangement is unsatisfactory: —

Tolls

So far as the Passenger Boats
(generally called Lop Boats) are concerned
there can be no fraud, because they pay, each,
an annual license of 10 Rupees: Fraud can
be perpetrated only with regard to the Cargo
Boats, and these are very few in number;—
and the Lounage inconsiderable as the boats
are generally small:— The whole amount
collected during the past year from Cargo Boats
was 117— Rupees:— Although I should
be glad to be relieved from the responsibility
of these collections, I am of opinion that,
at present, the traffic is not sufficient to
warrant the entertainment of an establish-
-ment such as the Revenue department
would require to collect and check these Tolls:

Had the Revenue department any
Officer whose services could be extended
to the duty without extra pay, I would
recommend the immediate transfer of the
collection to them: But, as we must

have one or two Peons at the Adyar on account
of our stores there, and as the Cargo Boats
always, pass the store shed (The Lop Boats
only, stopping at the Lattice Bridge) I
would recommend that the collection of Tolls
be left, for the current year, as it is; and
that I be authorised to make the best arrange-
-ment, which this imperfect state of things
will permit, to ensure accuracy in the returns.

The formation of a landing place on the North
bank of the Adyar, as recommended in para
18 would greatly tend to accuracy in the
statements:— This recommendation recom-
-ing the tolls is in direct opposition to my own
personal wishes on the subject, but I believe
it is best for the state.—

I, I recommended, and Mr. Kennedy
supported the recommendation, that the
bulk of the passenger traffic should be
removed from the present Basin to that
at the Trevellian water works; partly for
the purpose of relieving the crowded state
of the present Basin ~~with Cargo Boats~~,

and partly to accommodate passengers
going Northwards from the Southern parts
of Madras. —

I regret to have to state that owing
to the impossibility of getting any one to
make an intelligent survey for the pay I
am able to give, I have been unable to get
the Estimates completed. They will be sent
up early in the current year. —

I have the honor to be

Yours

Most Obedt servant

William Fraser C.E.

C. E. Canal Office

Church Park

Mount Road

15 May 1865

Special Exc. Engineer

P.S. A copy of this
Report, with the financial
Statements has been forwarded
to the Superintending Engineer —

N^o 203.

Superintg. Engrs. Office 5th Div.
Salem, 17th May, 1865.

From

Siruth Col. R. A. Ford M.B.

Superintg. Engrs. 5th Division

To

Colonel C. A. Br M.B.

Secretary to Government N.P.W.

Sir,

Enclosed is

- 1. Administration Report.
- 2. Statement A.
- 3. Statement B.
- 4. Statement C.
- 5. Statement D.
- 6. Statement E.

I have the honor to forward the "Administration Report" of this Division, for the official year 1864. 65, together with the Statements A, B, C, D and E.

2. The Report was delayed up to this date, owing to the non receipt of the accounts from one of the Range Officers, until yesterday.

I have the honor to be,

Sr.

Yours most Obedt Servt.

E A Ford Lt Col M.B.
Superintg. Engrs. 5th Div.

137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

W. H. Brown Esq M.B.
Lt Col. C. A. Br M.B.
Secretary to Government N.P.W.

Col. C. A. Br M.B.
Secretary to Government N.P.W.

Col. C. A. Br M.B.
Secretary to Government N.P.W.

Administration

Report for the year
ending 30th June 1865
for the C. A. Br M.B.

18

Comptroller

Building

— 1864. 65. —

Administration Report of the Fifth Division A.P. W.

1. The Imperial allotment for the
Division was as follows:-

Enclosures 5.
Statements marked
A.B.C.D. & E.

	Rs.	As.	P.	
South Arcot	180,539.	"	"	
Add	11,977 6.	"	"	
	300,315	"	"	Rs. As. P.
Deduct	10,330.	"	"	289,985. " "
Salem	129,229.	"	"	
Add	33,174. 8.	"	"	
	162,403. 8.	"	"	
Deduct	8,731.	"	"	153,672. 8. "
Bangalore	130,940.	"	"	
Add	55,257. 8. 9.	"	"	
	186,197. 8. 9.	"	"	
Deduct	6,159.	"	"	180,038. 8. 9.

Bangalore

2. The most important "Military"
Work is the "New Dragoon Barracks."
The expenditure during the past year
has been Rspees 83,458. 1. 9. Six
Ranges are completed and occupied.
The seventh will be ready very soon and
the eighth in two months. Of the other
buildings

1864-65
The Imperial allotment for the
Division was as follows:-
South Arcot 180,539.
Add 11,977 6.
300,315
Deduct 10,330.
289,985.
Salem 129,229.
Add 33,174. 8.
162,403. 8.
Deduct 8,731.
153,672. 8.
Bangalore 130,940.
Add 55,257. 8. 9.
186,197. 8. 9.
Deduct 6,159.
180,038. 8. 9.

buildings in course of construction at these Barracks, the Hospital and Canteen have been completed up to basement. Four blocks of Married Quarters, Magazine, Wash House, Skittle Alley, and Grass boiling shed, Provost Serjants' Quarters, and Cells have been nearly completed. The Canteen, Orderly Room, and Quarter Master Serjants' Quarters are in progress.

3. The Mysore Water Project has not made much progress, and the plan and estimate are being revised.

The most important "Civil Buildings" are the following

4. New Court House at Cuddalore. South Arcot.

Estimate Rupees 44,000. " "
Allotment for the year Rs. 26,364. " "
Expenditure Rs. 26,164. 7. 4.

The building was being roofed in at the end of the year, and is likely to be completed in September. The work was delayed by the Contractor failing in his agreement to supply timber. In other respects it has been carried on in a very satisfactory manner.

5. Constructing an Upper Story to the Salem Jail. Salem.
Estimate Rupees 40,500. " "
Allotment for the year " 20,200. " "
Expenditure " 23,193. 10. 5

One

One large, and one small block have been completed, and handed over to the prison authorities, during the year. Another large block has been completed, with the exception of iron roofing to the verandah, and another small block (the last) is under construction.

The work estimated for is likely to be finished by the end of May.

6. Under the head "Agricultural" no new works of importance have been carried out, but the following will be noticed here as though really "repairs" they have appeared in the Progress Report as "new works."

South Arcot.

7. The three annicuts across the Guddelum, known as the Tiruvady, Vanamadavy, and Tiruvandipuram, were all seriously damaged by the extraordinary flood in October. The repairs were nearly completed by the end of the year, and in a satisfactory manner. The expenditure was as follows.

Tiruvady ancient Rs. 6,545. 13. 8.
Vanamadavy " 2,304. 8. 4.
Tiruvandipuram " 10,497. 3. 10.

— "Communication" —

South Arcot.

8. A sum of Rupees 4,999. 8. 3. has been laid out in graveling 14 miles of Trunk Road No. 9 near the Vellur annicut

amount, and Rupees 5176. " " the balance of an estimate of Rupees 22800. " " in graveling the road from the Mercannur salt pans to Indivannur.

9. Ten arches of the bridge across the Guddilum, ^{at Cuddalore} were carried away by the great flood of October. Six of the ten arches have been rebuilt, and the bridge is likely to be reopened for traffic, in August. The expenditure has been Rupees 8240. 3.

10. Three miles of a road from Srirangam / Salem Railway Station / to Trunk Road No 5 have been made at a cost of Rupees 1840. " "

11. Two bridges, each of three arches of thirty feet span, have been built; one on the Salem and Cuddalore road, Rupees 1510. " " and one on the Trunk Road No 5 near Paramperry, Rupees 5338. 3. 11.

Repairs.

12. In the South Arcot District.

South Arcot

365 Tanks 55 channels 11 embankments, 8 Calingulabs, 4 sluices, 5 ainnants have been repaired. ^{and 1 Calingulab} and 30 new sluices have been built and 2 channels excavated.

13. In the Salem District

Salem

61 Tanks, 27 channels 24 ainnants 3 Calingulabs and 2 sluices have been repaired and 5 sluices have ^{been} built.

South Arcot

14.

In the South Arcot District the number of miles of road kept in repair from allowances from the Imperial Fund was 450. and the expenditure was Rs 79,255. 7. 9.

Salem

15.

In Salem the number of miles was 406 and the expenditure Rupees 59,329. 15. 5.

Bangalore

16.

The Cantonment roads at Bangalore were kept in repair for Rupees 5,499.

17.

The rates for labor and materials in the Salem and South Arcot Districts are much the same as those prevailing last year.

At Bangalore the rates have an upward tendency.

18.

The Executive Engineers at Bangalore Salem and Cuddalore, no longer have workshops.

19.

There is only one navigable Canal in the Division viz. that from the Coleroon lower ainnant to Porto Novo. The traffic on this is inconsiderable, there being no towing path and the course crooked.

20.

Season. In the month of October there was excessively heavy rain in a part of South Arcot causing an extraordinary flood in the Guddilum and great damage to roads and irrigation works.

works. The season generally has been dry in Salem.

21. The entire allotment of the South West District after all transfers was Rupees 289,985. Of this sum Rupees 274,355 were expended up to 30th April leaving a balance of Rupees 15,630. Of this sum, Rupees 11,325 were paid to Civil Officers for work executed by their Department. The balance left was Rupees 4,305 of which Rupees 698 were transferred to the head tools and stores, so that only 3,608 remained unexpended up to the end of the last official year. The entire allotment was not expended owing to early frosts in the Coleroon which caused the stoppage of some works and prevented others being commenced.

22. In the Salem District after all transfers, the allotment was Rs. 153,672. Of this sum Rupees 142,334 were expended up to 30th April 1865 leaving a balance of Rupees 11,338. Of this sum Rupees 462 were paid to Civil Officers. The balance left was Rupees 10,876 of which Rupees 642 were transferred to the head tools and stores so that Rs. 10,234 remained unexpended up to the end of April 1865. The allotment was not entirely expended owing, in some Ranges, to a difficulty in procuring labours, while in others to the tanks being full so that the repairs could not be carried out.

In

Constructing ventilators for the lower story of the jail. Rs. 12,000
Constructing Workshops for Jail. Rs. 4,000
Providing the inner court yard of the jail. Rs. 1,000
and 6 Workshops. Rs. 1,000

works noted in the margin. In the case of the Salem Jail, the money was not expended from the Contractor not delivering timber at the proper time.

23. From the allotment for Bangalore / Rs. 18,00,000 / Rupees 1420 remained unexpended up to the end of April. The entire allotment for the Sapper Buildings was not expended. I have called upon Captain Tulloch to state the causes which prevented the expenditure of the entire allotment. On receipt of his reply I will forward it to Government.

E A Smith Lt Col R.E.
Superinty: Engr. 5th Div.

Superinty: Engr's Office 5th Div.
Salem, 17th May, 1865.

Administrative
Report of the S^r Division
for 1884. 85.

Rs 22035/08

Expenditure upon New Works during the year 1884. 85.

A.

Expenditure upon New Works during the year 1884. 85.

District.	Military.	Buildings.	Agricultural.	Communications.	Improvements.	Miscellaneous.	Public.	Remarks.
South Arcot	"	"	20,228. 5. 2.	32,170. 14. 11.	22,098. 10. 1.	"	"	81,406. 14. 2.
			11,325					1,920
			27,553. 5. 2					
Salem	119. 15. 3.	34,335. 4. 6	20,660. 14. 9.	17,745. 6. 1.	"	"	"	54,861. 5. 7.
		462						1,152
		34,797						
Bangalore	158,560. 14. 5.	1,000. "	"	"	"	"	"	1,00,160. 14. 5.
								1,33,100
								1,33,100
								1,33,100

Superintending Engineer, Office S^r Div. Arcot
Salem, 17th May 1885.
Ensign

371
C. A. And Lt. Col. R. E.
Superintending Engineer S^r Div. Arcot

Expenditure upon
New Works during the
year 1864. 65.

2772283/4

A & B.

B

Expenditure upon repairs during the year 1864. 65.

District.	Military.	Civil	Public	Miscellaneous	Remarks.
			Communi. Improve-ments		
South Arcot.	" " 1448. 12. 11.	104,173. 6. 9.	87,028. 4. 3.	" " " "	192,948. 4. 11.
Salem	287. 7. "	2409. 10. 11.	24,049. 5. 12.	60,426. " 7.	87,442. 8. 4.
Bangalore	18258. 8. 5.	199. " "	" " "	" " "	18,457. 8. 5.

Suprs: Engrs Office S & B
Salem, 17th May 1865.

Engrs Office S & B

37
Engrs Office S & B
Salem, 17th May 1865.

B

1777 2235755

Expenditure upon
repairs during the
year 1874. 185.

1875

1876

1877

1878

1879

C.

Expenditure from Government Fund during the year 1872. Rs.

Distric.	Work.	Estimate.	Sanction.	No. and date of sanction.	Expenditure up to 30th April of the present year.	Expenditure in current year.	Remarks showing progress made upon each work & are not noticed in the reports submitted or suspended from payment also marked.
South Arcot.	Constructing Canal across the Gudalur river.	24000.	1868. 5. 7.	1868. 5. 7.	2027. 11. 4.	Completed in October 1872.	
	Rs. a Salungulak in the Vanamangalam main canal.	480.	1868. 5. 7.	1868. 5. 7.	474. 4. 1.	Rs. in April 1872.	
	Rs. a bridge near the Vanamangalam.	340.	1868. 5. 7.	1868. 5. 7.	340. 11. 1.	Rs. in April 1872.	
	Constructing a road between Palakodu & Marofun.	18200.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Rs. a bridge of one 24 feet span on the Vanamangalam and Verkal Road.	2300.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
Salem.	Rs. a bridge of 9 arches & 30 feet span across the Vellur river at Talavasel on the road between Salem and Cuddalore.	5000.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Rs. a bridge for 30 feet span on the Vanamangalam & Verkal Road.	3000.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Constructing a road between Palakodu & Marofun.	18200.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Rs. a bridge of one 24 feet span on the Vanamangalam and Verkal Road.	2300.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Constructing a road between Palakodu & Marofun.	18200.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
Bengalore.	None.						
	Constructing a road between Palakodu & Marofun.	18200.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Rs. a bridge of one 24 feet span on the Vanamangalam and Verkal Road.	2300.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Constructing a road between Palakodu & Marofun.	18200.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	
	Rs. a bridge of one 24 feet span on the Vanamangalam and Verkal Road.	2300.	1868. 4. 11.	1868. 4. 11.	4678. 4. 4.	Rs. in April 1872.	

Supy. Engrs Office 5th Regt. 17th May, 1872.

CA and Engrs Office 5th Regt. 17th May, 1872.

Cardinal

Expenditure from
General Dep't of Am. &
during the year 1864. 65

Mar 22 1865/65

C.

II

Expenditure from District Road Tax Funds during the year 1864. 65.

District.

Works.

Original Works.

Bridge across the Veli-Palay on the road from

Tiruvandipuram to Tiruvadi.

Funds on the Jeagavelly salt pan road.

Road from Tripapattinam to Bandipuram.

Road and Tunnel between Tiruvandipuram and

Aranganam.

Road from Chitturam to Palai.

Road from Bandipuram to Pattinam.

Road from Boodingudi road to join Thonagiri

road near Thirapattinam.

Road from Boodingudi near Villu's Annicut

to Komaragudi Village.

Carried Over

1691 7 3

Amount
Expended.

Remarks regarding progress made
towards completion.

1241. 15. 9. Bridge complete & d.

353. 1. 10. 8 1/2

381. 15. 2. 17 1/2

388. 1. 5.

104. 12. 7. 4 furlongs of road formed.

94. 8. 6.

4000. Road completed

525. 1. 1. 18 1/2

374

Receipts.

Amount expended. Remains to be expended/repairs made towards completion.

Brought Over Balance. 25217 52

Road from Tiruchchur to Tirumangaluru	888. 11. 1.	Repairs to the road Completed.
Road from Tiruchchur to Tirumangaluru	500. 0. 0.	Rs.
" " to Villav	499. 15. 9.	Rs.
" " to Tiruchchur	499. 15. 11.	Rs.
" " to Tirumangaluru	999. 15. 10.	Rs.
Road from Tiruchchur to Tirumangaluru in Tirumangaluru road to Villav	999. 15. 3.	Rs.
Road from Tiruchchur to Tirumangaluru	2294. 3. 4. ✓	Rs.
" " to Tirumangaluru	248. 8. 5. ✓	Rs.
" " to Villav	799. 14. 10.	Rs.
Road from Tirumangaluru to Tirumangaluru	1270. 13. 4.	Nearly completed.
Road from Tirumangaluru to Tirumangaluru	1199. 15. 3.	Repairs to the road Completed
Breaches in the road from Tirumangaluru to Villav	900. 12. 11.	Breaches repaired
" " to Tirumangaluru	400. 10. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	150. 0. 0.	Repairs to road Completed.
Road from Tirumangaluru to Tirumangaluru	99. 8. 11.	Rs.

North/End

South

Road from Tiruchchur to Tirumangaluru	199. 14. 3.	Rs.
Road from Tirumangaluru bridge to Tirumangaluru	149. 6. 10.	Rs.
Road from Tirumangaluru to Tirumangaluru	299. 6. 1.	Rs.
Road from Tirumangaluru to Tirumangaluru	99. 11. 4.	Rs.
Road from Tirumangaluru to Tirumangaluru	49. 14. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	48. 6. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	150. 0. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	99. 13. 9.	Rs.
Road from Tirumangaluru to Tirumangaluru	399. 15. 11.	Rs.
Road from Tirumangaluru to Tirumangaluru	200. 0. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	99. 12. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	199. 15. 4.	Rs.
Road from Tirumangaluru to Tirumangaluru	348. 14. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	299. 15. 11.	Rs.
" " to Tirumangaluru	399. 15. 10.	Rs.
Road from Tirumangaluru to Tirumangaluru	200. 0. 0.	Rs.
Road from Tirumangaluru to Tirumangaluru	83. 4. 9.	Rs.
Platform Bridge over the backwater on the Fort Saint David road.	349. 12. 6.	Repairs to Bridge Completed
Road from Tirumangaluru to Tirumangaluru	400. 0. 0.	" " to road

Brought Over Balance. 42426 13 5

Particulars	Amount expended.	Remarks regarding progress made towards completion.
Brought Over Rs	42426 13 6	
Road from Mannam to Secunder	350. . .	Repairs to Road Completed
Road from Aringam to Pambur	125. . .	Rs.
Road from backwater road to Gundalav	99. 13 10.	Rs.
Platform Bridge on cross road leading from Port to Salt Pond road	425. . .	Repairs to Bridge Completed
Road from Chellumbum road to Gundalav Salt Pond	49 12 6	Rs.
Road from trunk road N. 4 to Ambapuram	99 15 11	Rs.
Branch road leading from Port to the Pond over the Platform bridge to Mannam	154. 15 1	Repairs to the road Completed
Road from Platform Bridge to the Gundalav Bridge via taking Kachani	343. 13 3	Rs.
Breaches on the Vankalpet road	197. 14. .	Breaches repaired
Breaches in the Irindipuram road	149. 14. 8.	Rs.
Breaches in the Pomer Road	574 13. .	Rs.
Breaches in the Gundalav Salt Pond road	158. 8. .	Rs.
Breaches in Kanchi Chakravarthy	157 15. .	Rs.
Road from Aringam to Bandipalayam	75. . .	Repairs to the road Completed
Road from Aringam to Maruthadu	47. 13. .	Rs.
Road from Irindipuram to Aringam	200. . .	Rs.
Road from Creanpet to Aringam	299. 15. 11.	Rs.
Breaches in the Mundapet road	226. 11. .	Rs.
Road from Mount Capper to St. John	28. 11. .	Rs.
Road from Gundalav Bridge to Mount Capper	374. 11. .	Rs.
Road from Chikara to Palur	75. . .	Rs.
Detaching the Pondicherry road	939. 11. 3.	87 Cyp. Latent carted
Road from trunk Road N. 4 to Kelangudi	99. 15. 11.	Road repaired
Travellers Bundarot at Irindipuram	70. . .	Repairs Completed
Government Choultry at the Villam Annand	230. . .	Rs.
Total Repairs	47881 4 7	
Total of South Arcot	13962 6 3	
Original Works		
Market shed at Salem	1225 5 3	Completed
Road between Orindis & Pambur	48. 5. 6.	Rs.
And wall across the compound of the Choultry	121. 1. .	Rs.
Bengal at Vaniyambady	1804. 11 9.	

Grand Total

Revised

Dr. J. C. C. C.

Work

Brought over from 1894. 11.9.
and wall on its sides and enclosing a piece of ground
for Bandipet at Varambadi.

Had Signal Works 2143. 11.9.

Repairs.

Neer and Benthamisthal road

Madapuri and Relamungalem road

Kistrajuri and Royakottah

" and Kamulpatti

Kangur and Singurapett

Subbar and Salem

Manamkottah and Mullapuram

Attur and Rasipur

Seethur and Rasipur

Kamand and Parumthi

Paramthi and Padarpetam

" and Trichungode

Seethur and Rasipur

Manamkottah and Rasipur

" and Trichungode

Madapuri and Rasipur

Seethur and Rasipur

Manamkottah and Rasipur

Attur and Rasipur

Seethur and Rasipur

Kamand and Rasipur

Paramthi and Rasipur

" and Rasipur

Manamkottah and Rasipur

Attur and Rasipur

Seethur and Rasipur

Kamand and Rasipur

Paramthi and Rasipur

" and Rasipur

Manamkottah and Rasipur

Attur and Rasipur

Seethur and Rasipur

Kamand and Rasipur

Amount expended

1894. 11.9.

2143. 11.9.

2143. 11.9.

757 11. Completed

549. 15.8.

900. " "

450. 11.6.

949. 8.11.

1051. 15. "

463. 7. "

2215. 12. 6.1.

1098. 1. 4.

535. 6. "

580. 13. 11.

897. 14. 6.

874. 8. 4.

979. 12. 8.

1038. 6. 4.

109. 8. 10.

424. 7. 5.

301. 2. 7.

346. " 1.

299. 3. "

390. 9. 3.

479. 9. 7.

499. 7. 5.

89. 12. 8.

310. 11. 10.

244. 2. 10.

250. " "

499. 11. 7.

1447. 13. 9.

1447. 13. 9.

1447. 13. 9.

1447. 13. 9.

1447. 13. 9.

Remarks regarding progress made towards Completion.

Completed.

Completed

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District	Works	Amount		Remarks regarding the progress made towards completion.
		expended.	Completed.	
Salem Circle	Brought Over Bt.	17467.13.9.		
	Parampuri and Pannagaram road	377.8.11.	Completed.	
	" and Krishnapur	585.13.2.	"	
	Namand and Mogamur	449.13.11.	"	
	Paramurthy and Vethur	149.10.10.	"	
	Vethur and Mogamur	253.14.10.	"	
	Mogamur and Vellogapatty	388.10.5.	"	
	Godapary and Vellampatty	187.14.3.	"	
	Trichingode and Sankeswaram	348.2.11.	"	
	Namalakul and Krishnapatty	445.10.4.	"	
	Road called Matoscharoor in Salem	144.12."	"	
	Salem and Krishnapatty road	500."	"	
	" and Oranur	309.13.2.	"	
	" and Combatoor	499.15.9.	"	
	" and Krishnapatty and via Sankeswaram	499.14.7.	"	
	Total Repairs	22804.8.10.		
	Total of Salem	25,083.7.		

Inspector

None

" " "

Inspector: Engr. Office 5th May
Salem 17th May 1885.

SA and Engr. Office 5th May
Inspector: Engr. Office 5th May

Cum gratia

E

Statement shewing the New Works noticed in the Administration Report for the year 1864-65.

Districts	Works	Paragraphs in which reported	Amount of Estimate	Order sanctioning the Estimate	Expenditure up to the end of the preceding Official year	Original allotment for the year under Report.	Net allotment for the year under Report.	Actual expenditure during the year under Report.	Remarks
						From Imperial Funds.	From Income Tax Funds.	From Imperial Funds.	From Income Tax Funds.
South Arcot	Court House at Cuddalore	4	44,000	N ^o 883 of 31 st March 1864	55,300		26,384	26,164	74
	Tirunadi Anai Kat	7	5,500	N ^o 154 of 17 th Dec 1864	8,300		6,276	6,545	138
	Vanamadavy Anai Kat	7	3,540	N ^o 27 of 18 th March 1865	2,000		2,505	2,304	84
	Tiruvandipuram Anai Kat	7	4,270	N ^o 1701 and 7 th Dec 1864	9,970		10,322	10,497	310
	Gravelling Trunk Road No. 9	8	8,521	N ^o 18 th March 1865	24,900	8,850	5,000	4,829	83
	Do. Road from Meeraniam to Tiruvannam	8	22,800	N ^o 2318 of 16 th Dec 1864	17,624	711	5176	5276	
	Bridge over the Guddilum river	9	12,000	N ^o 757 of 17 th March 1865	12,000		8400	8240	39
Salem	Constructing an upper story to the Jail at Salem	5	40,500	N ^o 699 of 23 rd March 1865	19,538	138	20,200	23,193	105
	Constructing a cart road between Paramangalum and Suramangalum	10	11,300	N ^o 284 of 27 th Nov 1862	4,461	15	1840	1840	

Districts	Works	Paragrap of report in which mentioned.	Amount	Order of situation of ing the estimate estimate
Salem Continued	Constructing a Bridge of 3.30 ft Span across a jungle stream near Sashien's Choultry on the Salem & Cuddalore Road	11	1800 1650 3450	N ^o 2318 and 2448 of 16 th Dec ^r 1856 31 st December 1861
	Constructing a Bridge of 3.30 ft Span on Trunk Road N ^o V. near Sarampuri	11	5780 1475 7255	N ^o 1248 and 670 of 18 th May 63 and 13 th March 1863
Bangalore	New Dragoon Barracks	2	572250	N ^o 2136 of 26 th Jan ^y 63
	Ulsoor Water supply project.	3	72000	N ^o 401 of 17 th Feb ^y 63

Supermtg. Eng^rs Office 5th Dec^r
Salem 17th May 1865

1570
932
2442
5338
721
6059

Completed

N^o 652.

From,

Colonel A. J. M. Boileau R.E.
Superintending Engineer & M.D.

To

Colonel G. A. Orr R.E.
Secretary to Government P.W.D.
Fort Saint George

Sir

As promised in para 9 of the
Administration Report for 1864/65, I have the
honor to forward 5 Photographs as
per margin of the principal book-
ings carried out during the year,
under the Item N^o 4 of Supplement to
Budget of that year. —

Sup^r J. Eng^rs Office 4th Dec^r
Madras 19th June 1865

I have the honor to be
Sir
Your most Obedient Servant

A. Boileau Colonel R.E.
Chf. Eng^r M.D.

Administration Report / Annual Progress Report

Public Works in the Madras Presidency For the year 1864-65

Allotment of funds.

1 The sum allotted by the Government of India for Public Works in this Presidency for the year 1864/65 was Rupees 73,57,383, increased by private contribution to Rs 73,90,965, which was distributed over the main budget heads in the ^{following} proportions ~~noted~~ below.

New Works	32,32,550
Repairs	26,55,506
Tools & Stores	1,53,855
Unappropriated Reserve	2,492
Establishments ^{including amount transferred from local funds}	13,46,562

Allotment for each St. for 1864/65 as compared with the outlay in that year and in 1863/64.

2 The following statement exhibits, in one view, the amount assigned for Public Works in each St. for 1864/65, as compared with the outlay in that and the preceding years -

171/1864/65
From July 1st 1864
To July 1st 1865
To the Secretary to Govt.
P.O.
Dated 19th
Decr. 26th June 1865
B.S.
No 652
Forwarded photo:
graphs to complete
the series designed to
illustrate that portion
of the Annual Report
relating to Public Works
at the Board.

Districts	Allo- tment for 1864/65 including Private Contri- butions	Expenditure in 1864/65	Expenditure in 1863/64
Gaujam	1,31,802	1,30,557	1,41,091
Vizagapatam	2,35,915	2,25,345	1,58,057
Godavery	7,25,971	6,92,778	6,36,341
Kistnah	4,39,560	4,30,213	3,54,710
Nellore	1,75,322	1,73,785	1,69,373
Cuddapah	1,97,946	1,84,553	2,36,350
Kurnool	80,490	73,910	64,937
Bellary	2,22,434	2,23,586	2,19,045
Presidency	4,28,775	4,26,376	5,69,457
Madras	4,94,942	4,75,536	3,04,647
North Arcot	2,91,784	2,62,052	1,89,931
South Arcot	2,89,287	2,85,680	1,57,064
Salem	1,53,531	1,42,796	1,29,132
Bangalore	1,80,039	1,78,618	1,41,655
Tanjore	2,73,534	2,46,510	2,04,059
Trichinopoly	2,86,778	2,67,705	1,97,574
Coimbatore	4,01,738	3,90,651	3,22,529
Malabar	4,14,740	3,96,274	2,55,024
South Canara	1,11,626	1,08,487	85,502
Madurai	1,30,908	1,15,045	1,40,908
Tinnevely	1,85,037	1,61,535	1,49,027
Municipal Commis- sioners	35,897	35,897	35,897
Total	58,88,056	56,27,889	48,62,310

Expenditure in 1864/65 less than the allotment but in excess of the outlay of the preceding year.

Expenditure on account of Tools & Stores

Outlay on establishments not yet reported.

Expenditure under main budget heads in each St.

The outlay on works exceeded that in 1863/64 by Rupees 7,65,579 (Rs 3,65,888 on New Works, and Rs 3,99,691 on Repairs); but it fell short of the funds allotted by Rupees 2,60,164, owing, in some cases, to scarcity of labor and sickness amongst the working classes, and in others, to failures on the part of contractors.

4 The expenditure under the head "Tools and Stores" amounted to Rs

and The outlay on account of establishments was Rupees have not yet been reported & the outlay

The following statements show the actual expenditure in each District on New Works and Repairs respec-
tively under the main budget heads.

Districts

New Works

Districts	Military	Civil Buildings	Agriculture	Communications	Miscellaneous Public Improvement	Total
Gaujam	"	20,844	3,426	38,561	"	62,831
Vijagapatam	3,171	49,213	6,535	1,05,802	"	1,64,721
Godavery	"	56,381	34,823	35,716	3,182	4,73,511
Kistnah	622	15,970	1,60,003	24,873	16,146	2,17,614
Nellore	"	10,810	34,843	57,044	"	1,02,697
Cuddapah	"	8,725	2,063	60,447	"	71,235
Kurnool	4,391	6,057	161	10,141	"	20,750
Bellary	82,044	11,655	1,517	3,147	"	98,363
Presidency	1,19,240	22,298	350	1,414	53,79	3,49,368
Madras	80,889	57,733	45,422	23,915	2,882	2,10,841
North Arcot	"	13,484	86,295	37,301	"	1,37,080
South Arcot	"	37,553	32,180	22,999	"	92,732
Salem	120	34,797	2,661	17,745	"	55,323
Bangalore	1,58,560	1,600	"	"	"	1,60,160
Tanjore	"	1,373	31,523	21,206	"	54,102
Trichinopoly	81,475	13,395	9,643	5,993	"	1,10,506
Coimbatore	93,380	98,252	9,537	74,989	400	2,76,558
Sialshar	93,175	21,858	"	1,99,255	906	3,15,194
South Canara	"	5,245	"	56,006	"	61,251
Madura	"	1,307	1,500	19,512	3,559	25,878
Trinavally	295	3,806	1,978	32,126	"	38,205
Total	7,17,362	7,23,043	7,77,869	8,48,192	32,454	30,98,920

Repairs

Districts	Military	Civil Buildings	Agriculture	Communications	Miscellaneous Public Improvement	Total
Gaujam	216	4,947	19,836	42,727	"	67,726
Vijagapatam	5,897	7,955	10,633	34,797	1,342	60,624
Godavery	255	4,403	1,50,093	44,864	19,652	2,19,267
Kistnah	795	6,210	1,62,552	43,026	16	2,12,599
Nellore	"	1,402	26,261	43,425	"	71,088
Cuddapah	249	1,043	29,975	82,051	"	1,13,318
Kurnool	199	1,763	15,124	36,074	"	53,160
Bellary	27,635	3,327	38,551	55,710	"	1,25,223
Presidency	33,174	25,998	7,659	6,764	3,413	77,008
Madras	22,232	11,248	99,347	1,31,868	"	2,64,695
North Arcot	2,386	1,849	71,654	49,083	"	1,24,972
South Arcot	"	1,749	1,04,173	87,026	"	1,92,948
Salem	288	2,410	24,049	60,726	"	87,473
Bangalore	18,259	199	"	"	"	18,458
Tanjore	"	8,953	1,16,821	64,292	2,342	1,92,408
Trichinopoly	5,627	1,779	93,079	56,714	"	1,57,199
Coimbatore	7,973	5,019	44,247	55,953	901	1,14,093
Malabar	17,304	12,197	1,707	49,817	55	81,080
South Canara	781	3,579	"	42,698	178	47,230
Madura	"	1,490	33,590	54,054	33	89,167
Trinavally	2,271	5,005	52,305	62,483	1,266	1,23,330
Mund Commrs	"	"	"	35,897	"	35,897
Total	145,541	1,12,525	1,10,165	1,14,004	29,198	2,52,896

The expenditure from
Income Tax, District Road, Port,
and Educational funds was
Rupees 6,17,577, as particularized
below.

Expenditure from
local funds.

Districts	Income Tax Fund	District Road and Port Funds	Educational Funds	Total
Ganjam	8,006	8,038	"	16,044
Vizagapatam	11,498	"	"	11,498
Godavery	19,942	18,486	4,567	42,995
Kistnah	10,656	11,889	3,947	26,492
Nellore	12,237	20,323	"	32,560
Cuddapah	10,846	1,057	40	11,943
Kurnool	8,225	7,771	122	16,118
Bellary	11,098	6,088	218	17,404
Presidency	44,904	994	18,995	64,893
Madras	23,720	4,606	"	28,326
North Arcot	14,002	34,980	"	48,982
South Arcot	2842	63,962	"	66,804
Salem	10,243	25,008	"	35,251
Banjore	"	2,973	"	2,973
Trichinopoly	8,063	1,946	"	10,009
Coimbatore	13,377	17,882	116	31,375
Malabar	11,181	67,993	2,952	82,126
South Canara	8,947	15,156	"	24,103
Madura	12,545	9,535	"	22,080
Tinnevely	8,337	17,264	"	25,601
Total	2,50,669	3,35,951	30,957	6,17,577

Rates & Prices

There has been no material change, either in the rates of labor or in the prices of materials in the Ganjam, Presidency, Madras, North Arcot, South Arcot, Salem, Coimbatore, Malabar and South Canara Districts. Some difficulty has been experienced in procuring good bricks at the Presidency, and owing to the low rates allowed in the Presidency data for brick masonry, the services of skilled labourers were not easily ~~procured~~ obtained. Owing to the unhealthiness of the locality, exception-
ally high rates have had to be offered to get work done in the Wynnad. At Bangalore and in the Vizagapatam, Godavery, Kistnah, Nellore, Bellary, Cuddapah, Kurnool, Tanjore, Trichinopoly, Madura and Tinnevely Districts the labor and prices of materials have had an upward tendency owing chiefly 1st to the demand for labor for the Railway and Irrigation Companies' Works, 2nd to the increased cultivation of cotton and the high prices of grain and 3rd to the demand for labourers for the repair of the houses in Masulipatam and its vicinity destroyed by the cyclone of 1901.

The rainfall in the 1st Division (comprising the Ganjam, Vizagapatnam and Godavari Districts) was considerably below the average, and its insufficiency was very much felt. Paddy crops ~~failed~~ failed in several taluqs and the prices of all agricultural produce were ~~higher~~ higher than in 1863/64.

Season.

The season in the Vizagapatnam and Bellare districts promised to be a favorable one; crops were flourishing and the supply of labor was abundant until the recent hurricane and sea inundation, which did extensive damage and caused a temporary scarcity of labor in that neighborhood.

In the 3rd Div. (Bellary, Chittoor, Kurnool) the season was unfavorable, while in the Presidency, Madras & North Arcot, it may be said to have been, on the whole, a favorable one. In Salem, the season was generally dry; in parts of South Arcot there was excessive heavy rain in Oct 1864 causing an extraordinary flood in the Gudalur river and great damage to roads and irrigation works. The season in Tanjore and Trichinopoly was not very favorable. In July extraordinary floods came down the Cannery

and Coleroon rivers, causing considerable damage. The Coimbatore District was ~~very~~ very dry, but generally healthy, while in parts of Malabar and South Canara fever and cholera prevailed. In the Madras and Tinnevely Districts the season was unfavorable for wet cultivation.

Progress of principal works.

The following is a brief account of the progress made upon the principal works undertaken during the year -

Military Bellary

Auxiliary Buildings for the Artillery at Bellary.

9th Auxiliary buildings for the Artillery at Bellary.

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expenditure in 1864/65
143,449	42,301	22,086	35,561

The library and reading rooms have been completed. The other works undertaken during the year are still ~~incomplete~~ unfinished.

Presidency - Alterations to the Sea Face Batteries - ~~Fort St George~~

10

Alterations to the Sea Face
Batteries ~~at Fort St George~~
at the Presidency

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
13,130	3,998	8120 reduced to 5720	5756

The Salient of the south
east Orillimdlamie Bastion of
Fort St George has been pounded
off and the parapets re-formed.
Three platforms with raised
iron rails have been fixed
in position, and ten ordinary
platforms have been laid
down in the Fort St George, Clives
& Abercrombie's Batteries.

Presidency - Converting Case
mates in the N.E. and S.E. Cur-
tains into Expense Magazines,
and the Flag Staff Redan into
Ordnance Store Rooms.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
9,570	"	9,570 reduced to 8172	8124

Expense Magazines
& Ordnance Store
Rooms at the Pre-
sidency

The whole of these
works were completed
during the past offi-
cial year -

Family

Family Quarters
in Fort St George

Presidency - Family Quarters in Fort St George

Estimate	Expenditure up to 30 April 1864	Allotment in 1864/65	Expenditure in 1864/65
158,100	96,858	61,242 reduced to 48,119	45,642

Block No 2 has been
completed and made over
to the Military Department
for occupation. Blocks No 3
and 4 have been raised
two stories high, and the
third story is in progress.

Incorporating Mills at
the Gun Powder Manu-
factory - ~~Presidency~~

Presidency - Second set of incorporating mills at the Gun Powder Manufactory

Estimate	Expenditure up to 30 April 1864	Allotment in 1864/65	Expenditure in 1864/65
38,100	21,783	16,317 reduced to 9,352	8,197

The work has been
completed, and the machinery
set up -

Accommodation for two
Batteries at St. Thomas Mount - ~~Presidency~~

Madras District - Adapting Horse Artillery Lines at St. Thomas Mount to provide accommodation for two Batteries.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
85,100	"	85,100 reduced to 79,559	72,023

The following buildings

have been completed

Guard house with Orderly, Office
& 2 rooms -

Gun shed for one battery, with
harness, store and wheel:
wrights' rooms -

Smithy

Gram boiling house for two batteries

Trichinopoly - Constructing
a Packet and Fines Court
for the Artillery at Trichi-
nopoly -

Prof. Rice
look 1864

21 18 17

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure there in 1864/65
10,580	"	6,160	5,525

Packet & Fines Court
at Trichinopoly.

The main wall has
been raised to its full height
of 31 feet, and the side walls
of the Fines Court have been
completed. Fair progress
has been made in the
erection of the side walls
of the Packet Court.

Trichinopoly - Constructing
twenty six Family Quarters for
the Artillery at Trichinopoly.

11 19 18

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure there in 1864/65
16,800	"	13,000	12,625

One Block of these Quarters,
two cookrooms and a privy have

Family Quarters
Trichinopoly -

Grand Magazine at Trichinopoly.

19 21 17

been completed; the remaining
block is in rapid progress -

Trichinopoly - Constructing
a Grand Magazine
at Trichinopoly.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure there in 1864/65
20,000	3,945	16,055	16,771

The building has been
completed, but the lightning
conductors have yet to be
attached -

Dragon Barracks at Bangalore.

15 19 17

Bangalore - New Dra-
gon Barracks.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure there in 1864/65
59,225	4,40,445	80,000	83,458

Six ranges of Barracks
have been constructed and
occupied, and two others
will shortly be ready. The
hospital and canteen have
been completed up to base-
ment; four blocks of married
quarters, the magazine,
wash. house, skittle alley,
gram boiling shed, Provost
Sergeants' Quarters and cells
are nearly finished, and the
Orderly room and Quarter Master
Sergeants' Quarters are in progress.

Bangalore - Ulsoor Water Project -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
72,000	13,396	21,000 reduced to 18,800	18,736

Ulsoor Water Project -

This work has not made much progress during the year. The sanctioned estimate has been found to be insufficient, and a revised estimate is under preparation.

Lawrence Asylum at Ootacamund.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
11,50,000	45,518	1,50,000 reduced to 82,512	84,259

Lawrence Asylum at Ootacamund -

The entire site for one building has been cleared and good progress has been made in the excavation of that for another. The work shops have been built and roofed in with corrugated iron; vertical and circular saws, a planing machine, H.P. Engine has been erected to drive the fans of the Smith's forges. A tramway has been laid down from the brickfields and upwards of 2,500,000 bricks have been manufactured. One block of twenty servants houses has been completed. The building of another block is in progress.

Infantry Barracks at Cannanore -

wood work of the roof fixed in position. At the chumam works, a 4 H P Engine has been set up, and a mill house has been erected. A lime kiln and a shed roofed with iron to contain the lime have been completed.

Malabar - Additions to the Infantry Barracks at Cannanore -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
1,78,881	43,549	65,234 reduced to 61,787	56,407

The work executed during the year was as follows.

Regimental School - The pillars and exterior end walls and the walls above roof of verandah plastered. One and a half room floored - foundations and basement of privies laid.

Recreation Room - Finished with the exception of the plastering of the walls and the flooring of the verandah and of three rooms.

Serjeants Mess House - Foundations and basement completed - stones collected for main building.

Staff Serjeants Mess - Main building and cookrooms and bathrooms completed.

Married Quarters - No 6 block completed with the exception of the roof - Ten sets of out houses nearly finished.

Veraudah on south face of Barracks }
Coffee Room } Completed
Ration Shed }

Drains and Cisterns in Barracks - All finished with the exception of the plastering of four small cisterns and the fixing of the shutters.

Civil Buildings

Ganjam - Constructing a Church at Berhampore.

Rupees 2650, out of a sum of Rupees 3500 contributed by private parties, were expended during the year ~~on the church~~.

Berhampore Church.

Vizagapatam - Jail at Vizagapatam.

Two of the radial blocks containing accommodation for about eight convicts have been completed.

Two other wards are being roofed in, and a fifth ward has been prepared for its roof.

At the sixth ward the doors and windows have been fixed in position, and the walls raised six feet. One half of the enclosure wall has also been built. Much difficulty was experienced in

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
23372	6673	10350 reduced to 9875	9869

Vizagapatam Jail

Rajahmundry Central Jail

procuring timber for the work, but nearly the whole quantity required has now been collected.

24-25 Godavery - Central Jail at Rajahmundry.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
186000 reduced to 205748	55,548	80000 reduced to 68,595	68,595

Three of the five radial blocks of cells have been finished; one has been half completed, and the other raised to the basement level. The walls of the cells for female convicts and for solitary confinement prisoners have been raised 5 feet and the lower story of the central warder has been built. The erection of the workshops has progressed satisfactorily; two of the sheds are being roofed in and the walls of the remaining three are ready to be covered in. About one third of the enclosure wall has been finished, and a large well, 22 feet in diameter, lined with cut stone, has been sunk to a depth of 72 feet.

25-26 Kallore - Taking Cutcherry at Ongole

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
10534	"	5000 reduced to 3800	3799

The foundations of and
basement have been laid Taluk Cutchery at Bugole -
and the doors and windows
have been prepared.

Muddapah - Sub. Collrs Cutchery at
Madanapally
Taluk Cutchery at Pullampett

Estimates	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
3720	2781	939	938
7300	"	3300	2243

The first of these works
was completed in November
last, and has since been
occupied; the second is
progressing rapidly.

Sub. Collrs Cutchery
at Madanapally -
Taluk Cutchery at
Pullampett -
Cuddapah

Kurnool - Deputy Collrs Cutchery
at Paipally -

Ests	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
2650	29	1932	2611

Deputy Collrs Cutchery at
Paipally -

Completed during the year
at a cost of Rs 2640 -

Bellary - Taluk Cutchery at Hospett -
H. Asst. Collrs Cutchery at do -

Ests	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
6750	6481	5674 reduced to 177	606
2745	496	1410 increased to 2189	2176

The first of these works
has been finished and handed
over to the Rev Authorities; the
second is nearly completed.

Taluk Cutchery
at Hospett -
Head Asst. Collrs
Cutchery at Hospett -

Stamp Office at the
Presidency

Madras Salt Stairs

Central Museum at
the Presidency

Presidency - New Stamp
Office -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
28880 30000	"	28880 reduced to 23880	23213

The work is being
carried out on contract
and will probably be
completed in July 1865.

Presidency - Additional
Storage room at the Madras
Salt Stairs -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
61300	8242	30000 reduced to 27000	27037

The platform has been
nearly completed, considerable
difficulty was experienced
in obtaining earth except
at great distances -

Presidency - Additions to
the Govt. Central Museum.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
35750	28144	7600 increased to 8900	9529

The additions were
completed during the year at
a total cost of Rs 37673

Presidency - New wing to the General Hospital

General Hospital at Madras.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
2,19,500	1,62,459	57,000 reduced to 52,000	51,645

The two north and two south wards of the lower story in the east wing have been finished with the exception of the painting, plastering and flooring. The other works executed during the year were as follows.

Centre lower story East block. Two eastern and two western wards nearly completed.

Centre block. All the wards completed with the exception of the flooring and plastering and the painting of the woodwork.

East wing upper story. All four wards completed.

East Centre block of do. Finished with the exception of the painting of the woodwork.

Centre block of do. Completed except plastering, painting and flooring.

The walls of the bathrooms and privies of the east wing have been raised 5 feet, and the doors and window frames are being fixed.

West Centre block & West wing. Completed and given power to the House Master. Laying

Laying out the ground round the General Hospital at the Presidency.

Presidency - Laying out the ground round the General Hospital -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
10,350	"	10,350 reduced to 3,960	4,064

The whole of the south side of the hospital has been laid out in flower gardens and walks, and the plants have been regularly watered.

Public Works Store & Workshop at the Presidency.

Presidency - General Stores and Workshop for the P.W. Dept.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
~~7,390~~ 80,360	"	50,000 increased to 54,070	55,023

Rapid progress has been made in the construction of these buildings and it is expected that they will be completed in a few months.

Mr. Collier Cutchery at the Madras Salt Stairs.
T. V. Cutchery at the Madras Salt Stairs.

Presidency - Mr. Collier Cutchery at the Salt Stairs.

Madras - T. V. Cutchery at the Madras Salt Stairs.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
6,460	"	6,460	6,473
11,300	"	6,000 increased to 10,458	10,458

The first of these works has been completed, and

22
so has the second with
the exception of the plastering.

South Arcot - Court House at
Madurai -

Court House at Cuddalore

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
✓ 44,000	✓ 10,117	30,000 reduced to 26,364	26,165

The progress of this work
has been retarded by the failure
of the Contractor to supply the quantity
of timber required. The build-
ing was being roofed in at the
end of the year and will proba-
bly be completed in Sept next.

Salem - Constructing an Upper Story
to the Salem Jail.

Upper Story to Salem Jail

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
✓ 10,500	✓ 19,539	20,200	23,194

One large and one small
block were completed during the year
and handed over to the Prison Authority.
Another large block is nearly
finished, and the last block (a
small one) is under construction.

Trichinopoly - Converting the old
jail in the Fort at Trichinopoly into
a Lunatic Asylum.

Lunatic Asylum at
Trichinopoly

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
✓ 11,980	✓ 19,999	29,800 reduced to 8,949	8,565

The work has been completed
with the exception of the formation of
the garden (to be undertaken by convicts)
and some minor improvements to the
drainage.

Coimbatore - Central Jail at
Coimbatore.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
✓ 1,80,800	✓ 30,660	60,000 increased to 75,459	✓ 75,923

Coimbatore central jail -

The following works
have been carried out -
~~to the 30 April 1865.~~

Outer Wall - Three sides completed
to full height of sixteen feet - Three
sides raised twelve feet, and
two sides built four feet high.

Inner Wall - Foundations and
basement of four sides laid.

Radial cells & workshops - ~~Eight~~
Blocks -

No III - Radial wall built 8 feet -
masonry of shop completed -
six trusses for roof prepared.

No IV - Foundations excavated for
radial cells.

No V - Workshop and radial wall
completed.

No VI - Radial cells built, and
doors and windows
put up.

No VII - Masonry of workshop
and radial wall com-
pleted, and the timber
for the roof prepared.

No VIII - Masonry of radial cells
built four feet, and
the doors and windows
prepared.

No IX - Radial wall and workshop
completed.

No X - Foundations and base-
ment of radial cells laid.

No XI - Foundations and base-
ment of workshop completed.

Centre Warder's house - Foundations
and basement laid, and doors
and windows prepared.

Outside jailers' quarters - Walls built
nine feet high - doors, windows and
timber for roof prepared.

Agricultural

Godavery. Raising the Godavery Anicut -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
3,00,000	1,48,255	70,000 reduced to 68,400	68,407

Raising Godavery Anicut

On the Vigeisuram Mudloom and Rally branches, the raising of the anicut and the construction of an additional apron has been completed. On the Dowlaishuram branch, the crown of the anicut has been faced ~~with~~ cut stone ~~for~~ ^{with} (4 yards in width) a length of 1300 yards, and nearly all the additional stone apron has been packed in.

Godavery - Slore high level canal from Perikad to Hun : chainor, via Dandaboor.

Estimates	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
2,57,650	1,95,873	3,79,811 increased to 14,917	1,12,777
66,132	"	17,500	13,552

The tail race of the agri duct across the Joomalair was completed in Septe last. The progress of the work has been checked & sickness among the workmen and other causes, but measures have been taken to expedite its completion.

Slore Canal.

Akeed Canal - Godavery

Godavery - Improvement to the Akeed Canal.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
80,120	10,176	15,000 reduced to 8,824	11,824

The grant for the year having been small, very little progress was made on this work.

Godavery - Constructing locks and calingulaks in the Mundapetta Canal.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
41,960	28,262	10,000 increased to 13,348	11,989

These works have been completed with the exception of a part of the stone revetment of the Pasalapooddy lock and a little earthwork.

Kistnah - Channel from Peddaveedlapudi to Nizampatam.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
2,90,214	2,60,743	2,98,611 reduced to 16,000	15,299

The canal was opened out to its full length in February last, but some of the banks still require raising to proper section. The calingul to regulate the supply of the last reach is nearly completed, and the tidal lock the construction of which was much delayed by the cyclone in Novr. 64, will shortly be opened. It is expected that the entire work will be finished in 1865/66.

Channel from Peddaveedlapudi to Nizampatam - Kistnah.

Kistrah - Channel from Kullaba:
 - pooram to tide water, branch
 channels &c. -

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expenditure in 1864/65
14,649	5,193	32,000	29,897

Channel from Kullaba
 - pooram to tide water - ~~Kistrah~~

The widening of this channel
 has progressed fairly; the side chan-
 nels Vattamadu Kollir & Papilly
 have been completed; the Vattatur
 side channel head sluice
 and the Kollir sluice have been
 constructed, and materials have
 been collected for the commence-
 ment of the Kollir and Kattapada &
 calingulaks -

Kistrah - Channel from Pullairi
 near Kayoor to the canal basin at Masulipatan -

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expenditure in 1864/65
2,598	2,632	2,000 reduced to 900	894

The channel has been
 completed, but it sustained
 considerable damage by the
 cyclone in Nov. last -

Kistrah - Enlargement of head
 of main channel from Seetana
 - gram to Diggeralla &c. -

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expenditure in 1864/65
2,613	12,836	25,000 reduced to 24,100	21,583

This work has been continued,
 but, owing to scarcity of labor,
 it has not made as much
 progress as was expected -

Enlargement of head of
 channel from Seetana
 - gram to Diggeralla - ~~Kistrah~~

Widening the Pullairi Channel.
~~Kistrah~~

Kistrah - Widening the
 lower portion of the Pul-
 - lairi Channel -

Estimate	Expenditure up to the 30 April/64	Allotment for 1864/65	Expenditure in 1864/65
98,710	44,909	25,000 increased to 26,000	26,943

The lock and bridge
 over the calingulak at four
 - tarum and the Poleragudi
 combination have been com-
 - pleted. The Chaguracottak
 channel is nearly finished;
 the Panarri channel has
 been two thirds completed
 and about four fifths of the
 work on the Chitram channel
 has been carried out -

Kistrah - Continuation of
 the Commamoor channel from
 Intole to Chinna Guigina

Estimate	Expenditure up to the 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
18,546	"	30,000 increased to 32,000	33,113

The commitments for ten
 miles have been made in
 a substantial manner,
 seven and a quarter miles
 of channel have been dug
 to full section and two and
 a half miles to full width
 with a depth of one yard;
 two and a half miles of
 channel previously made
 have been enlarged, and
 an escape at the terminus
 of the channel has been constructed -

Commamoor Channel.
~~Kistrah~~

28
Kistnah - Improving and strengthening
 the eastern embankment of
 the Kistnah from Ganamala -
 - Cudisri to Mope day -

Eastern embankment
 of the Kistnah.

Two and a half
 miles of the embankment
 were raised during the
 year to full height with
 an outlay of Rspees 2053
 from Income Tax Funds -
 Total expenditure Rs 28,391
 against an estimate of
 Rspees 56,910 -

Nellore - New cut from
 Jaffar Sahib's to Surwafull
 Channel.

Do - Improving the
 Eden Kudem branch
 of Jaffar Sahib's Channel.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65 (13,530) reduced to 8,683	Expenditure in 1864/65
92,630	78,652	8,683	8,689
27,100	19,737	(2,488) reduced to 2,489	2,453

Irrigation channels in the
 Nellore etc.

These works are nearly
 completed; a small balance
 remains to be expended on
 irrigation sluices &c.

Madras etc. - Palam Project.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65 (26,210) reduced to 20,210	Expenditure in 1864/65
2,13,273	1,84,360	20,210	20,211

The allotment for the past
 year was laid out in restoring and

Palam Project - Madras etc.

improving several of the
 numerous tanks connected
 with this project.

North Arcot - Raising the
 body of the Palam Aicut -

Raising body of
 Palam Aicut - 1864/65

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
7,700	-	7,700	7,700

The aicut has been
 raised from 5 to 7 feet
 in height, and the work,
 which was completed just
 before the N.E. monsoons, proved
 most serviceable, all the
 tanks north and south of
 the main having had a full
 supply.

North Arcot - Chuchramallur etc.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
8,300	-	8,300	8,130

A new channel has been
 excavated to supply the Chuchra
 mallee and twelve other tanks
 on the south side of the Palam
 river - The head sluice of
 the channel has been formed
 by adapting the southernmost
 under sluice of the aicut
 to the purpose.

North Arcot - Extension of channels
 under the Irakudravady etc.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
15,000	-	15,000	14,059

Channels under
 Irakudravady
 Tank.

About twelve miles of channel have been cut to utilize the waters of the over flow of the Mahendragadi tank, and they have proved very useful in filling the lower tanks -

North Arcot. Cutting channel from Salpet to Surpentangle and improving the Amoor tank calingulab.

Estimates	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
19,300	16,874	2426	2426

Channel from Salpet to Surpentangle.

Completed; - the work is expected to prove highly remunerative.

North Arcot. Extending the system of irrigation under the Chepur Ancient.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
29,700	"	10,000	9,589

Chepur ancient.

The ancient has been raised, and the channel and its subsidiary works have been widened.

South Arcot. Trivady Ancient - Kanamadavy do - Trivandipuram do -

Estimates	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
9,040	"	8300 reduced to 6276	6546
2,505	"	2,000 increased to 2,505	2,305
12,791	"	9,770 increased to 10,322	10,497

These works were

Trivady, Kanamadavy & Trivandipuram Ancient.

seriously damaged by the extraordinary floods of Oct/64. Good progress has been made in the reconstruction of such parts of them as had been destroyed, and it is expected that the works will be completed within a few months.

Tanjore. Rebuilding the fallen portions of the south branch of the Lower Colerom Ancient.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
63,000	"	20,000 reduced to 14,000	19,743

Colerom Ancient.

The foundations of the front retaining wall have been rebuilt across the breach and satisfactory progress has been made towards filling up the gaps in the foundations of the body and of the rear retaining wall.

Communications

Ganjam. Road from Mojadola to Sunkerkole.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
49,700	31,624	13,000 reduced to 3,000	2999

Road from Mojadola to Sunkerkole.

The earthwork of twenty one miles, with masonry works up to the top of the Kalingia shant, has been completed. Gravel has been spread for six miles and the side slopes turfed for a distance of nine miles.

Ganjam - Road from Aska to Ganjam.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
62,700	"	23,309 reduced to 21,000	22,500

The earthwork of the entire length (30 miles) has been completed, and the bridges on five miles constructed. Material to the value of Rs 7100 has been collected for the remaining portion of the work.

Ganjam - Road from Aska to Russalcondah.

The estimate for this work amounts to Rupees 44,640, of which Rupees 3682 were expended up to 30 April 1864, and Rupees 3299 from Income Tax Funds in 1864/65. The earthwork of seven and a half miles has been completed; six timber platform bridges, three tunnels and three road dams have been built, and three other timber bridges are under construction.

Ganjam - Road from Kullipudi to Kurchah - Est. Rs 22,470

This work has been carried on from Income Tax Funds. The amount expended is Rupees 8683, whereof Rupees 4,707 was the outlay during the past office year. The earthwork of eight miles has been completed; 9060 running yards of masonry have been cut, and four bridges and

Aska & Ganjam road.

Aska & Russalcondah road.

Road from Kullipudi to Kurchah.

Vizagapatam - Road from Vizagapatam to Kasiipore.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
115,000	13,495	25,000 reduced to 23,897	23,897

29 tunnels, 18 sluices and 3 road dams have been built, 6 bridges, 2 tunnels, and 2 road dams are under construction, and a large quantity of earthwork, metalling and gravelling at various places between the 3rd and 21st miles has been completed.

Vizagapatam & Kasiipore road.

Vizagapatam - Road from Vizagapatam to Chapurpilly - Est. Rs 20,630

Twelve miles of earthwork, nine miles of metalling, with general Chapurpilly, and three fine bridges have been completed with an expenditure of Rs 18,716, of which Rupees 10,091 were laid out during the past year from Income Tax Funds.

Vizagapatam - Road from Vizagapatam to Kasiipore.

Rupees 13,246 were expended in 1864/65 on this line of communication from the amount (Rs 50,000) contributed by the Government of Vizagapatam. Iron girder bridge at Godavari.

Godavari - Iron girder bridge at Godavari.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
75,000	23,994	6000 increased to 16,000	16,060

Both abutments have been built. Of the 18 girders required for the bridge, 16 have been manufactured at the Dowlaisheweram workshop, and the cast-iron cylinders for the piers have been despatched from England by the Eastern

Kistnah - Trunk Road No 6 from Seta Nagarum to Guntur.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
26,077	11,676	5000 increased to 7,000	6,342

10 miles of road have been completed and opened for traffic, and 8

Road from Seta Nagarum to Guntur - Kistnah.

Nistrah - Bridge across the Comma
- moor channel near Chabrola.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
11,900	420	5000 reduced to 4762	5588

The foundations have
been laid and the piers and
abutments are in progress.

Nistrah - Reconstructing Sultanagram
bridge on the Masulipatam & Hyderabad road.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
14,100	"	6000 increased to 9,400	9,056

The bridge constructed some
years ago was completely destroyed
during the late cyclone. The new
bridge has been completed to
within 18" of the springing of the arches.

Nistrah - Improving the Madras
and Masulipatam coast road.

The earthwork of the road
has been completed; one bridge
has been built, and materials
have been collected for other
masonry works. Expenditure in
1864/65 from Income Tax Funds Rs 3527
against an estimate of Rs 4,580.

Nellore - Trunk Road No 6.

Masonry works on - do -
Portion of - do - passing
over the Moosamoor valley

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
113	10,102	8,580 increased to 13,302	10,289
60,837	60,837	8,000 increased to 10,520	10,415
1,891	1,891	8,000 increased to 10,000	10,007

Bridge across Comma
channel. ~~Nistrah~~

Sultanagram bridge.
~~Nistrah~~

Madras & Masulipatam
coast road. ~~Nistrah~~

Trunk Road No 6.

~~Nellore~~

Nellore & Dorekul road.
~~Nellore~~

Famine roads in Cuddapah.

About $1\frac{2}{3}$ miles of the
road embankment across the
Musamir valley have been com-
pleted; about 600 yards remain
to be done, and the bridge has
yet to be constructed. A great
deal of work has been done
near Ongole, but two miles
of bad portions have still to
be improved. With these ex-
ceptions, the road throughout
the Nellore District is in good
order.

Nellore - Nellore and
Dorekul road. ~~Nellore~~

Ruppes 9637 were ex-
pended on this work from
Income Tax funds during the
past official outlay, and
Ruppes 49,530 are still avail-
able upon the sanctioned
estimate of Rs 1,01,000. Fourteen
and a half miles of road
have been completed; twenty
two miles of side drains
have been excavated and
two tunnels built.

Cuddapah - Famine roads
in the Kadiri taluk.

In May 1864, Ruppes 15,000
were allotted for expenditure
on these roads in the Kadiri
Taluk in order to afford relief
to the inhabitants who continued
to suffer great distress consequent
on the total failure of the
monsoon of 1863. This amount
was judiciously laid out in
the formation of eight miles
of road, the whole of which is
now practicable for
carts.

Cuddapah. Bridges on Trunk

Road No 1-

Bridges on 7. Rd No 11-
Cuddapah 85-

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
86,198	61,818	10,000	9,997

The Soodamalla and Ethal-cherroo bridges (4 Arches, 36 feet span), another bridge of 12 feet span and six tunnels were completed during the year-

Cuddapah - Road from the Madras and Cuddapah high road to the Codore Railway station
Road from Rajampett to the Rajampett Railway station
Road from the Madras road at Hundalra to the Hundalra Railway station

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
2,865	-	2,865	2,865
2,895	-	2,895 reduced to 1595	633
7,312	-	7,312 reduced to 1312	1,762

Railway feeders in the Cuddapah

The first of these Railway feeders has been completed and opened for traffic. Good progress has been made on the second, and it is expected that the road will be finished in July next. Work on the third has been much delayed in consequence of the road being carried through lands already cultivated.

Cuddapah - Road from Cuddapah to the Bellary frontier - Estimate Rs 54,300

The work executed during the year was as follows-

2 Bridges completed -
3255 Cubic yards earthwork executed -
4768 Running yards metalled -
6995 do gravel spread -
5281 Cubic yards do dug -
460 Purchases of metal collected -
1790 Running yards of lamping completed

The total expenditure up to 30 April 1865 when Rs 268,50, 7000 were laid out in 1864/65 from Income Tax funds - 10,00,000

Cuddapah & Kurnool Road from Cuddapah to Kurnool

Estates	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
Cudda portion 62,000	43,253	10,000	9,518
Kurnool portion 60,000	31,583	Imperial funds Rs 8779 reduced to Rs 6279 Income Tax funds Rs 8349	Imperial funds 5991 Income Tax funds 3335

The work performed during the year was as follows-

In Cuddapah - Earthwork completed for six miles; metalling laid for two thirds of this distance

In Kurnool - Earthwork completed for five miles - gravel carted and spread over same ten miles - eight road dams & ten tunnels built.

Owing to the great demand for labor for the works of the Madras Irrigation and Canal Co, and to the high rates allowed to the fair Officers, the progress of this road has been much retarded

Cuddapah & Bellary Road from Cuddapah to Bellary

Estimates	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
Cudda portion 106,431	58,534	Imperial funds Rs 20,000 Income Tax funds Rs 3760	Imperial funds Rs 20,000 Income Tax funds Rs 3770
Bellary portion Rs 102,200	83,788	Income Tax funds Rs 10,000	Income Tax funds Rs 10,000

Several miles of the road in the Cuddapah dt have been metalled and gravelled, and

a number of tunnels and road dams have been built. The work executed in the Bellary District consisted of the formation of three miles of road, the metalling of thirteen miles, and the construction of thirteen tunnels and three road dams.

Kurnool - Hundy Kanama grant.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
54,540	57,386	3,123	2,958

Hundy Kanama grant.
Kurnool

The approaches and a portion of the wing walls of the viaduct remain to be done to complete this work.

Kurnool - Bridging the road from Kurnool to Bellary.

The outlay during the year from Income Tax funds amounted to Rs 4,889, the total expenditure being Rupees 23,612 against an estimate of Rupees 23,370. Five of the bridges have been completed.

Bridging road from Kurnool to Bellary.
Kurnool

Presidency - Widening the Elephant gate bridge.

This work, which has proved a great boon to the public, was carried out during the past year from Income Tax funds at a cost of Rupees 7,280, or Rupees 4,20 less than the sanctioned estimate.

Elephant gate bridge - Presidency

Mylapore & Conatoo road

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
27,100	13,439	13,661	12,465

Madras Dt. Road from Mylapoor to Conatoo

Six miles of this road were opened for traffic in 1863/64 - the remaining distance (about ^{4 1/2} miles) has since been nearly completed.

North Arcot - Road from Satgur to Mailputty Railway Station.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
4,700	-	4,700	4,700

Road from Satgur to the Mailputty Rail way Station. North Arcot

This useful railway feeder has been completed and opened for traffic.

North Arcot - Road from Arcot to Arnee - Est. Rs 32,000.

The sum expended is Rupees 30,444 (Rs 17,142 up to 30 April 1864 & Rs 13,301 from Income Tax funds in 1864/65) and the work executed during the past year was as follows:

- 194.00 cu of Earthwork
- 9 1/3 cu of Brick masonry
- 37 1/2 cu of Graveling
- 1635. Running yards of Metalling
- 676 Square yards of Turfing
- 6496 - do - of Levelling

South Arcot - Bridge over the Guddilum river at Guddalur.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
12,000	-	12,000 reduced to 8,400	8,240

Bridge over the Guddilum river at Guddalur

Ten arches of this bridge

are carried away by the floods of October last. Six of the arches have been rebuilt, and it is expected that the bridge will be re-opened for traffic in August next.

Salem - Road from Soramun -
gallum (Salem Railway Station)
to Taramungallum on Trunk RD No 5

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
11,300	4,461	1,840	1,840

Three miles of this rail-
way feeder were completed
during the year - Five miles
in all are now ready for
use, and other portions are
in progress.

Salem - Two bridges, each
of three arches of thirty feet
span, have been built, one
on the Salem and Cuddalore
road, and the other on Trunk
Road No 5, near Daranpung.
The total outlay on these works
is Rupees 2462 & 605 approx-
imately, as shown below.

Estes	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
3450	932	2,150	1,510
7255	721	5060	5338
		6535	

Salem - Constructing a cart
track between Palakode and
Morapur. Estimate Rs 18200 -
Rupees 4676 were expended
during the year from Income
Tax Funds - The total outlay

Road from Soramun
gallum to Taramungallum

Bridges on the Salem &
Cuddalore road and on
Trunk RD No 5 near Daranpung

Cart road between
Palakode & Morapur

Bridge near Attur
on Salem Cuddalore road.

Road from Negapatam
to Nagore.

Railway feeder from
Keevalore to the
Station of that name.

has been Rupees 11,535, for
which sum 19 1/2 miles of
the track, of which 6 1/2
were undertaken in 1864/65
have been completed.

Salem - Bridge of nine arches
of 30 ft span near Attur on the
Salem Cuddalore road. Estimate Rs 14,300

The arches have
been completed with
the exception of the plas-
tering, which is in
progress. The total amount
expended on the work from
Income Tax funds is Rupees
7,288, whereof Rupees 2,103
were laid out during the
past year.

Tanjore - Road from Negapatam
to Nagore -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
25,730	12,886	8,456	8,477

Five miles of this
Railway feeder have
been completed - One
mile remains to be metalled.

Tanjore - Road from the Keer
Railway station to the Town of Tanjore.

Est	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
3690	152	3539	2894

The earthwork and masonry
culverts have been completed,
and the metalling is in progress.

Tanjore - Canal from the
Vedarnam salt pans to the
Adyar river.

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expendi- ture in 1864/65
13,000	11,373	1,621	1,209

The excavations through-
out the entire length of the
canal have been completed.

Tanjore - Junction canal from
Kangapattinam to Teroopondy.

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expendi- ture in 1864/65
22,565	8,194	8,065	8,626

The excavations in this
canal have also been com-
pleted, and good progress
has been made in the con-
struction of the masonry works.

Coimbatore - New Coonoor Ghaut.

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expenditure in 1864/65
"	8,549	42,434	40,781

The total length of the ghaut is
16 1/4 miles, of which 9 1/4 miles ^{were}
completed in 1863/64. During
the past year 6 1/2 miles were
opened out, and several nullahs
bridged. The present state of the work
is as follows.

6 miles opened to a width of 18 feet
5 1/4 " " as a bridle path
1 " " untouched.

Vedarnam Canal

Extension of Vedarnam Canal

New Coonoor ghaut.

Malabar - New Tambracherry

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expendi- ture in 1864/65
147,550	"	50,000 reduced to 37,340	34,553

New Tambracherry ghaut.

The earthwork and all
the culverts below the ghaut be-
tween Poodapady and the Pinjer
nullah, as well as the abutments
of the Stony river bridge and
one of the abutments of the Pinjer
bridge have been completed.
The earthwork on to the foot of
the ghaut has also been completed,
but two small bridges remain
to be built. Of the actual
ascent, 4 miles ~~of~~ ^{of} na-
rrows widths, are now used
by carts; at no part is the
road less than 12 feet wide,
and in places where no
rock is met with, it is con-
siderably wider.

Malabar - Kulpatty bridge.

Estimate	Expenditure up to 30 th April 1864	Allotment for 1864/65	Expenditure in 1864/65
30,000	"	20,000 increased to 24,410	24,735

Kulpatty bridge.

This is a wooden trussed
bridge of 4 bays of 64 feet span.
The wing walls, abutments and piers
have been built and are
ready for the girders. The earth-
work of the approaches has been
completed; the part of the side
slopes has been turfed, and
the metal for the surface
collected.

Bridging

South Canara - Bridging the road below the Channaray shant -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
40,140	11,478	17,420 increased to 26,036	26,016

The following bridges have
been in progress -

Many Hullah Bridge - Piers
and abutments completed; arches
turned, and wing walls
raised to a height of 17 feet.

Belthangady Bridge - Piers
and abutments completed; beams,
sleepers and struts laid, and
planting of first span nearly
finished.

Nedigal Bridge - Piers and
abutments completed - from
progress made with the woodwork -

Moondajek Bridge - Piers
and abutments completed;
beams, sleepers and struts
fixed, and the planting
commenced.

South Canara - Bridges be- low the Mungerah shant -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
15,882	5,077	10,109 reduced to 9,002	9,419

The work executed has
been as follows.

Cubbinhalla Bridge - Masonry
work completed with the exception
of the stone facing of one pier; beams
laid across two of the spans -

Bridge No III near 22nd mile - Masonry
work finished -

Cadamhalla Bridge - Completed
with the exception of heavy cuttings in the
western approach -

Bridges on the road
below the Channaray
shant -

Bridges below the
Mungerah shant -

Teroomungalum and
Coimbatore road

Shunmoogaineddee bridge

Palancottah & Tuticorin road

Kaltajek Bridge - Arch built
up with wing walls raised to
a height of 7 1/2 feet -

Kallala Bridge - Foundation
of bridge completed.

Madura - Improving the road
from Teroomungalum to the
Coimbatore boundary.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
165,000		Rs 2,655 from Imperial and Rs 10,000 from Income Tax funds.	Rs 26,553 from Imperial and Income Tax funds.

Three platform bridges
have been completed, and several
others are in progress. The worst
portions of the road are being
placed in good repair.

Madura - Bridge over the Shun-
moogaineddee river.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
30,169	5,609	10,000 increased to 13,000	11,336

The foundations of the abutments
and piers have been laid, and
materials for the superstructure are
being collected.

Tinnevely - Road from Palancottah
to Tuticorin.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
130,000	19,021	20,000 increased to 21,966	21,594

Eleven miles of the road
were completed during the year - Alto-
gether 18 miles are now open for

Tinnevely - Sattur bridge

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
22,000	17,966	4,034	3868

The restoration of this bridge (of 9 arches) was successfully accomplished during the year. The roadway over the bridge and the approaches to it have been thoroughly repaired, and the impediment to traffic hitherto caused by the Sattur river no longer exists.

Tinnevely - Rupees 8,337 were expended from Income Tax funds in the improvement of the road from Madura to Arambur, via Tinnevely -

Sattur bridge.

Road from Madura to Arambur.

Miscellaneous Public Improvement

Kistnah - Channel from the Ankuneroo Lock to the Sultanagram Kupp -

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
14,000	-	9,000	8442

This work was begun after the late cyclone, its object being to convey a supply of good water into Masulipatam. The earthwork has been completed.

Kistnah - Good water channel from the Sultanagram Kupp to Rotherwood Pettah.

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
"	"	4,800 reduced to 3,000	2524 1/2

As a temporary measure an open earthen channel

Peoples Park -
Enclosing Fort Esplanade,

made terminating in a bank about 3/4 of a mile from the bridge. There has been of the great utility in preserving the health of the town.

Presidency. Rupees 10,587

and Rupees 23,935 from Income Tax funds were expended under the orders of the Peoples Park Committee and the Municipal Commissioners in carrying out various improvements to the Park and in enclosing the Fort esplanade with wire fencing.

Quay at Mangalore

Smithanara. Extension

of the Quay at Mangalore.

The estimate for this work amounts to Rupees 10,713, of

which Rupees 867 were

expended in 1863/64 and

Rs 1640 in 1864/65 from

Income Tax funds. The portion

of the Quay, 192 feet in

length, has been completed.

Madura - Improving the Pamban Channel

Estimate	Expenditure up to 30 April 1864	Allotment for 1864/65	Expenditure in 1864/65
43,340	19,743	15,000 reduced to 4,500	3559

During the year 143C 987 of stone were removed besides a large quantity of debris resulting from the blasting operations of 1863/64. In March & April last 317 successful boats were affected.

Local Funds

Works undertaken from local funds.

The principal works undertaken during the year from District Road Educational and other funds were as follows -

District	Work	Expenditure in 1864/65	Remarks
Ganyair	Road from Sugganathpoom to Pooreh.		
	Capoor	5045	Earthwork completed 12 miles, almost the entire distance.
Vagapalam	Constructing Normal School at Vagapalam.	4526	60 masonry works constructed & 3600 C & D of 9 small spans.
Godavery	Road from Pennagonda to Sugganathpoom.	2930	Two abutments completed & masonry bridge being put up.
Do	Constructing an Iron Girder Bridge over the Gellairs.	2693	22 wells sunk - 18 C & D masonry built - 1 abutment in progress & 126 C & D earthwork completed.
Do	Road from Ambajepetta to Amala.	2897	Sanding of road in progress - Advance made & work stop for bridge.
Do	Constructing Gellah School at Rajahmundry.	3947	Completed.
Nellore	Road from Allor to Kapilly.	3335	One mile completed & five tunnels built.
Do	Road from Kanyigery to Singaravaram.	8254	Seventeen miles of road completed with the exception of masonry work.
Nurnool	Road from Nandicothoor to Bair.	5472	Two miles of road made.
Presidency	Constructing a Presidency College.	18822	

Location / Description	Amount	Status
North Arcot Road from Paluvannai to Kallakurichi	2,996	Completed
Do — Road from Thellur to Conjeveram	3,113	5808 Ck of earth work; 8396 Rs of cutting side channel 195 Ck of 9 ft walling; 4106 Rs of the bridge of cutting; 2006 Rs of masonry of walling & masonry of the bridge, complete.
South Arcot Road from the Boobalagudi road to join the Chomayir road near Kanchapalayam	4,000	Completed
Do — Road from Collier's Choultry to the Teagurall salt pans	2,550	Completed
Do — Road from Kallianur to join the road from Enayam to Pondicherry	4,840	Repairs completed
Salem — Market Shed at Salem	1,725	Completed
Coimbatore Road from Potacamund to Coimbatore the Railway Station	7,972	Road maintained in repair
Malabar Constructing a bridge across the boat race	6,991	The north and south abutments, wing walls, and the first, third and fourth piers have been raised to the height — the second pier has been raised 18 feet high, and the bridge for three spans completed. Masonry work and gates nearly finished.
Do — Rebuilding the Pully lock	4,208	
Do — Rebuilding the Annamangudi bridge	2,788	The pier raised nearly the full height; the other is in progress.
Do — Rebuilding the Lakshadweep bridge	3,454	The planking of the bridge is being put on

Do — Box from Palgrave to Widdall & Cherry 5-11 14,362 Work almost completed.

Do — Coast Road from Cannanore to ^{make} _{bridge} 2746. Completed -

Do — Road from Putnamby Railroad Station Slingsdore 2,851 Reeds completed.

Do — Road from Muddakencherry to the limits of the $\frac{1}{2}$ 3,300 — do —

—do—Provincial School at Calcutta—2,252 Completed.

~~Native~~ ^{Indian} Road from Hood River to Seltangadi - 3,058. 9 miles of road ~~of~~ ~~and~~ ~~opened~~.

Do — Road from Belknap to Porton —	2,510	5	—	—	—
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do — Road from Salmon to Cassargode — 2,535 Improvements effected where ~~the~~ ^{the} signal

Madura - Madura town water project - 8,402 - Under tunnel & siphon since completed - settlement of aqueduct raised - greater portion of earthwork finished. The expenditure includes at \$112 from income the funds - gradient were too heavy

insurably. Road from Swivellip further to Tenneway 5,060 in progress -

Wks maintained
in repair.

Repairs requiring
special mention

Repairs. The total outlay on Repairs was Rs 25,28,959. The works maintained in repair were as follows:

509 Military buildings
746 Civil buildings
1,795 Tanks
520 Dykes
883 Channels
106 Sluices
49 Calingulaks
60 Anicuts
9 Locks.
70- Drainages
2- Irrigation Dams
1- Aqueducts.
7691 Miles of Road or Canal
5 Bridges
190 Road tunnels
58 Road dams.

The repairs requiring special mention are—
noted below.

Godavery St. - Godavery Ament ———— ^{Expenditure} 26,931

Rough stone revetment and
groynes for the protection of
the river bank of eastern

delta _____ 17.958
Dredging the Cocanada harbour 19.652

Nistnah St. ^{dredging the Cocanada harbour 1862} Nistnah Ancient ————— 13,011

Masulipatam, final 6 branches - 52,710

Ellne Laurel - do - 9.756
P - do - 3.199

Signes funeral & do - 3, 499
Fullair - do - do - 12, 640

Fullam - do - do - 12, 040
Rizampatam - do - do - 14, 102

Western bank channel. 3,381

Common channel - 6,754

Handwritten: *Handwritten*

Rendered necessary by
the cyclone

Bellary - Toongabuddha Channels - 14,743.

Madras St. Deepening the Northern and Southern Canals - 22,071

Tanjore - Reconstructing wing walls of the South River. Vertical surplus sluice of the Lower Coleroon. Amount - 6,149.

Workshops

The workshops at Kozhikode, Kollam & Bellare have been in operation, but no work deserving special notice has been turned out. Lock gates, sluice shutters, doors, windows &c. have been the principal articles made up. At the Pannam Workshop, operations have been confined to the execution of repairs to canoes, hand dead-ends, spoil and stone boats.

The amount charged for work turned out in the Dowlaiswaram workshop was Rupees 1,72,118, of which Rs 7,653 were in account of work performed for private parties. The profit realized was Rupees 26,976, or Rupees 7,925 in excess of that of the previous year.

Workshops at Kozhikode, Kollam, Pannam & Dowlaiswaram.

Accounts

4497

Work performed in the Mill branch of the Office of the Collector of Madras.

The following Statement exhibits the work done in the Mill branch of the Office of the Collector of Madras in 1864/65 as compared with the previous year.

Years	Bills read during the year		Disposed of		Remaining on hand at the close of the year	
	No	Amount	No	Amount	No	Amount
1863/64	7,714	500,584	7,709	499,432	5	3,852
1864/65	7,506	69,34,626	7,462	69,01,351	44	33,275

Kollam Local Fund
Exp: and expenditure
under the head "Tools & Stores"

In addition to the above, 775 bills amounting to Rs 8,30,200 were ~~passed~~ ^{audited} in adjustment of expenditure incurred from Local Funds. Bills to the extent of Rs 10,396 were also ^{examined and} passed in account of outlays under the head "Tools & Stores".

Of the sum of Rs 5,18,297, which remained unadjusted on the 30. April 1864, bills to the extent of Rs

Adjustment of previous years' expenditure

44,40,503 were passed
during the last offl.
year, leaving a
balance of Rs 742,445-
~~still~~ to be
accounted for of the
expenditure previous to
1st of May 1884

AB

1269 - 1270 - 1271 -
 2232 - 2233 - 2234
 2235 - 2236 - 2237
 2238 - 2239 - 2240

1153

No. 8.

Memorandum.

The undersigned
 has the honor to for-
 ward to the Chief
 Secretary to Government
 the Administration Report
 of the Public Works
 Department for
 the year 1864/65.

Port St. George
 3rd July 1865

To The Chief Secretary
 to Government.

[Signature]

With one enclosure

Despatched July 1865

Administration
 Report of the Public
 Works Dept. for the
 year 1864-65.

J.W. Secy 3rd July 1865 - No. 8

P. H. R.
For July No 8
Memorandum

To

The Chief Secy
to Govt.

Dated 3rd July/65

Enclosure 1

No 8

Forwarding
the Administration
Report of the P. H.
Department for
the year 1864/65