Archives I—10,006—16-8-77.

(1) Number of pages 210

(2) Date of repair 19-2-87.

(3) Initials of the Referencer

AMIL NADU ARCHIVES

VERNMENT OF TAMIL NADU

PUBLIC WORKS. **DEPARTMENT**

G.O. No. 2181-W. Press.
~~B.P. No.~~ ~~Mis.~~

Dated 20-8-1879. 197-.

o be folded or roughly handled

Supg Engrs Office 5th Circle
Peelamedy 27th Decr 1879

No 2285 T.J.

From,

J. N. Rundall Esquire
Ag Supg Engineer 5th Circle

To,

Colonel R. H. Lankey C.B. R.E.
Chief Engr & Secretary to Govt P.W.D.
Madras.

Sir,

With reference to Ly. O No 2428 W of the 25th September regarding the transfer of Local Fund Works to other Agency, I have the honor to report that I have arranged with the President of the Local Fund Boards of the Tanjore Division, to hand over to the Board the Maintenance of all Roads hitherto supervised by the P. W. D. with the exception of those portions of Roads which run along Embankments. As these Embankments must remain in charge of the Irrigation Department the Roads which form part of them will remain in charge of the P. W. Officers.

2. Special Repair works already

commenced are to be completed by the R. W. D.

3. Similarly, new works already commenced, will be completed under the Supervision of the Officers of the Department.

4. The President has agreed to take over all the Sub Overseers at present employed and these men will accordingly be transferred from the 1st. January.

5. I trust these arrangements will be approved by Government.

I have the honor to be
Sir
Your Most Obdt. Servt.

J. W. Rundall
Ag. Supt. Engineer
5th Circle

✓

It now, P.W.D

The Supt Engineer
5t Circle

To,
The Chief Engr
S.W.D

No 22857.5
Dated 27t Dec: 79.
314

Mis Proc: of Govt Dt 2nd January 80
No 9.

Local Improvements in the Lanjore Dist

Reports that he has arranged with the President to hand over all the — with the exception of certain Roads —

2 Jany 1880 Approved

E.E. 5th Circle

Dated 2/1/79
2-1-80.

Back Nos 3-4

Urgent

No. Public Department.

MEMORANDUM.

It is requested that copy of the papers noted in the margin may be furnished for reference.

R.V.
G.O. No. 4544 dated 27 Nov 79.
Sanitary Commrs letter
No 1714 to President
of Committee appointed
under above G.O. & order
thereon if any —

H. S. Reid
for Under Secretary.

22 Jany 1880

P.
Pl. R. W. Dept

3

24/1

The letter
from the Sanitary
Commissioners, & the
Extract of the Committee
Proceedings, are
not available. The
orders were passed
on them, and they
were lately opened
by the Supt. of
Works, Buckingham
Canal, for Guidance

Chas

E

Statement showing the steps matters mentioned in the Administration Report for the year 1878-79.
Heads and Paragraphs.

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Land Revenue, Excise, Stamps, Cesses, Income Tax		
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Opening of the Railway to Traffic	G.O. dated 1st September 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 8th September 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 15th September 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 22nd September 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 29th September 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 6th October 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 13th October 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 20th October 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 27th October 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 3rd November 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 10th November 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 17th November 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 24th November 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 1st December 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
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Opening of the Railway to Traffic	G.O. dated 29th December 1882.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 5th January 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 12th January 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 19th January 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 26th January 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 2nd February 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
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Opening of the Railway to Traffic	G.O. dated 16th February 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 23rd February 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 2nd March 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 9th March 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 16th March 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 23rd March 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 30th March 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 6th April 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
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Opening of the Railway to Traffic	G.O. dated 27th April 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 4th May 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 11th May 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 18th May 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 25th May 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 1st June 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
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Opening of the Railway to Traffic	G.O. dated 31st August 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 7th September 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 14th September 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 21st September 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 28th September 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
Opening of the Railway to Traffic	G.O. dated 5th October 1883.	Original allotment for the year under report. Actual Expenditure during the year under report.
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Opening of the

Bangalore

Drainage Native Infantry Lines Bangalore	13	X	14,400	G.O. №1260 of 26th May 1873.	7966	4	3	5,000	3,292	3,187
Additions to Kilsore Water works	14	X	66,598	G.O. №589 dr 7th August 1877	9681	7	8	40,000	7,209	7,213
Providing Racks in the Ordnance Gunpowder Magazine Fort Bangalore	15	X	2,560	G.O. №2625 of 2d October 1873	"	"	"	2,560	2,560	2,362
Dismantling the Native Infantry Volunteer Stop markers and Richochett Butts &c at Bangalore	16	X	2673	G.O. №337 dr 30th January 1879	"	"	"	2,200	2,546	2,673

Original Works
Imperial
Salt

Chingleput

Opening Cunnore bar		X	6,360	G.O. №2835 X 3038 of 11th & 29th July 1878	"	"	"	6,310	5,520	5,520	Completed
Constg. Groyne at Cunnore		X	3300	G.O. №1612 B. dr 30th March 1878	234	"	"	3,300	1,177	1,176	Do-
Opening bar & Constructing Temporary Groyne at Covelong	19	X	2,550	G.O. №368 W of 4th February 1879	1865	9	5	"	"	20	

South Arcot

Excavating Puliangal Drainage Channel and building a Bridge over it		X	4985	G.O. №1274 of 4th April 1877.	3550	8	4	446	485	483	
					183						
					4033						

Provincial.
Civil Buildings.

North Arcot

Constructing Dead House at Vellore	20		590	G.O. №7520 of 13th March 1874.	"	"	"	426	426	"	

South Circuit.	Bungalow & office for the Asst. Superintendent of Police at Pinkoeliya	21	£ 7730	G.O. No 2068 W d/13 December 1877.	6587 4 8	1143	1143	1224	Completed
	Police huts for 1 Head Constable & 3 Constables at Pimalore	22	£ 1440	G.O. No 2030 W d/6 December 1877	- - -	1440	743	743	
	Constructing a Polie Station house at Pennathur	23	£ 890	G.O. No 72 d/ 10 June 1876	882 - -	-	-	8	
	do do at Kiliamore	24	£ 1067	G.O. No 2030 W d/6 December 1877.	- - -	1067	466	467	
	do do at Muttathur	25	£ 1047		- - -	1047	1047	1011	
Chingleput.	Constructing Salup Cutchery at Trivellore	26	£ 6160	G.O. No 4770 W d/14 December 1878	- - -	6160	6292	6257	Completed.
Presidency.	Constructing a moat and planting an aloe hedge round the compound of Lunatic Asylum	27	£ 1865	G.O. No 2253 W d/22 May 1878.	1486 - -	379	379	378	
	Providing Sky light in in the Stationery room of the Stamp Office	28	£ 520	G.O. No 3738 W d/ 28th May 1878.	- - -	620	519	519	Completed
	Converting Chepauk Work-Shop Buildings into offices for Public Works Department	29	£ 26,200	G.O. No 546 W d/21st February 1879.	61056 - -	45,900	49,777	49,172	

Buckingham Canal.

Communications

Buckingham Canal.

Extension of Buckingham Canal from Vallur or Porto Novo to Paranavoor	I	85,855 approximate	G.O. No 3179 dy 7th August 1878	6,555	"	"		15,005
Extension of Buckingham Canal from the Palar to Meerkanam	II	179,600	G.O. No 3979 dy 11th October 1878	"	"	"		33,050
Deepening the Southern Canal from Palar to Adayar	III	84,980	G.O. No 968 dy 27th February 1878	31,320	"	"		39,021
Junction Canal from Adayar to Coovum river	IV	748,920		612,156	"	"	106,400	155,600 47,324
Deepening North Canal from Madras Basin to Pulicat	V	65,500		31,167	"	"		3,037
New canal from Pulicat to Cusha	VI		G.O. No 544 dy 4th August 1877	148,172	"	"		37,894
Improving old Canal from Cusha to Kristnapatam	VII		do	7208	"	"		63,620
Extension of Canal from Kristnapatam to the Pennair	VIII	274,000	G.O. No 151 dy 21st January 1876	508,413	"	"		60,126
Extension of Canal from Pennair to Kristna frontier	IX	1790,000	G.O. No 3060 dy 15th November 1876	1497,000	"	"		289,098

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Miscellaneous Public Improvements

Constructing 2 Roads running parallel to the Buckingham Canal at Chepauk	33	5,341	G.O. No 205 dy 15th January 1879	"	"	"	"	5,046
Widening and Deepening Cotary Nullah	34	5,200	G.O. No 206 dy 22d January 1877	4,633	"	"	567	423 423
Conservancy of the Coovum		2,000	G.O. No 2957 dy 17th August 1878	"	"	"	2,000	2,000 2,001
Strengthening the bund across the Cochrane's Canal near General Hospital Bridge	35	"		"	"	"	611	511 752
Drainage of land between Veyasarpady & Cochrane's Canal	36	11,170	G.O. No 674 dy 31st August 1877	16,828	"	"	"	3,608 7,503

Presidency

Chingleput

Local.

Civil Buildings.

South Arcot.	Constructing Civil Dispensary at Palmanair	37	11,560	G.O. № 1789 & 3726 November 1877	"	"	"	2,000	2,000	25
South Arcot.	School at Manargudi	38	1,400	Board of Revenue № 6192 & 22 June 1878	11	9	12	1,480	1,430	1,413 Completed
South Arcot.	Improvements to Hyde's Choultry at Virudachellam	39	1575	Pro. of the Bd of Revn № 1311 & 15th May 1878	"	"	"	1,575	1,574	1,574

Communications

North Arcot.	Road from Byreddipelly to Venkatagiricottah	40	29,400	G.O. № 34 of 5th Septr. 1874	13	29	3	9	500	600	520
North Arcot.	Constructing a Bridge of 5 Arches across the Chittaur river	41	32,640	G.O. № 54 of 10th July 1876	13	28	8	3	"	"	"
South Arcot.	Protective works to the bridge across the Pounniar at Cuddalore	42	25,990	G.O. № 931 & 782 October 1877	25	254	12	"	738	351	351 Completed
South Arcot.	Bridge over the Manimuktanadie at Virudachellam	43	55,700	G.O. № 190 of 24th February 1874	46	750	8	"	6,750	5,833	5,832 do
South Arcot.	Road from Kullakurchi to Lunkarapuram	44	24,350	G.O. № 68 & 75 January 1878	22	951	9	8	2,038	518	940
South Arcot.	Railway feeder road from Chilambarum to Chilambarum Railway Station	45	1195	Bd of Rev: № 12,152 & 29th Nov: 1878	"	"	"	"	1195	1195	1084 Completed

Special

Civil Buildings.

Chingleput.	Constg. Laboratory at the Govt. Farm at Saidapett	47	5,450	G.O. № 75 & 75 January 1877	"	"	"	"	5,450	5,450	5,449 Completed

Mis: Public Improvements.

South Arcot	Pier in the Vellaur river or Wharf at Porto Novo	48	5.290	G.O. No 163 & 723d July 1877	4 11	97	4,978	4,978	4,978	completed

Guaranteed Railway Company.

Presidency	Constructing quarters for a Jailor of Her Mjs Penitentiary	49	4,408	G.O. No 2229 & 721st May 1878	"	"	4,408	4,408	6,253
	—do— for a Deputy —do—		3,182		"	"	3,182	3,182	3,591
	For fencing and Supplying water to the above buildings		720		"	"	720	720	480

Chepauk
14th June 1879

Major R. E.
Superintending Engineer
3d Circle.

I.

Godavari District

Statement shewing the works noticed in the Administration report for the year 1878/79

XI

No.	Works	Page of report on which noticed	Amount of Estimate	Number and date of Executive Order	Expenditure up to the end of previous year	Original allotment for the year under Report — From Imperial fund	Original allotment for the year under Report — From Provincial fund	Ret allotment for the year under report — From Imperial fund	Ret allotment for the year under report — From Provincial fund	Actual Expr during the year under report — From Imperial fund	Actual Expr during the year under report — From Provincial fund	Remarks
	Buildings											
1	Additions to the Collectors Cutcherry at Cocanada.	6	10700	G.O. No. 2363 dt. 3rd June/78	"	"	6000	"	6000	4348		The Building was roofed above basement & much of the wood work has been prepared
2	Improvements to the Asst Collectors Cutcherry at Bezwada	6	1940	G.O. No. 469 & 26/5/76	167	2	445		445	389		Work completed at an excess Expenditure of (Rs 121) which excess will be recovered shortly
3	Additions to the District Munsiffs Court House at Bezwada	6	3450	G.O. No. 595 22nd July 1875	326	5	185		185	182		Work Completed
4	Improvements to the Collectors Cutcherry at Vizagapatam	6	6739 Rs 300 Original Estimate	G.O. No. 99 dt. 18/6/77	511	9	166		166	1620		Work has been completed in 1878/79 — No work was done on the Ghaut during the year 1878/79 as the work was suspended in December 1878 under restrictive orders just at the time of working season
5	New Potingly Ghaut	6	130400	G.O. No. 101 dt. 18/6/77	6556	8	1893		1893	284		
6	Purchasing the Special Asst Collectors Bungalow at Russelconda	6	4282	G.O. No. 500 dt. 30 Jany/78	"		4282		4282	4282		Money was paid to Major Smith and the Building taken charge of, on 6/5/78
7	Reconstructing the roof of the Plain Hospital at Kimedy	6	1020	G.O. No. 865 dt. 29th Nov 1877	"		1020		1020	1020		Work Completed

Statement showing the works noticed in the Administration Report for the year 1878/79

Godavery District

No.	Works	Page of report on which noticed	Amount of Estimate	Number and date of Sanction	Expenditure upto the end of previous year	Original estimate for the year under report		Kept allotment for the year under report		Actual Expenditure during the year under report		Remarks
						From Imperial funds	From Provincial Fund	From Imperial funds	From Provincial Funds	From Imperial funds	From Provincial funds	
8	Constructions of Palmyra huts at Chicacole	6	2072	G.O. No. 4628 5 Dec. 1878				1050	1050	1005		Foundation to mud walls completed. Brick in chunam pillars to two rows of buildings raised to a height of 4½ feet above foundations. Some materials collected & doors & windows got ready.
9	Canal from Chilka lake to Ganjam Port	6	14370	G.O. No. 580 Revenue 29 July 1875	19598 5			5370	5370	3995 5		14789 Cyds of earthwork excavated in the 4th step upto the end of August 1878 work was not resumed in march 1879 under the restrictive orders.
1	Completing the Great Northern Trunk Road from Rentachintalah to Chicacole	10	45910	G.O. No. 235 Revenue 22 June 1875	3223 12			6000	6000	4198		The work has been completed as far as Chilakapalle between Chilakapalle & Chicacole earthwork has been completed & the Masonry works nearly so.
2	Completing Road from Palasondra to Parvatipore	10	42930 37730 Revised estimate	G.O. No. 423 Revenue 24 June 1875	24826			8490	8490	3656		Earth works completed. in the first two miles and masonry works are under construction.
3	Roads from Vizianagaram to Rathanalanka	10	30826	Estimate not yet sanctioned	1057			5000	5000	3166		

Statement shewing the works noticed in the Administration report for the year 1878/79 — Godaveri District

No.	Works	Rate of road on which noticed	Amount of Estimate	Number and date of Sanction	Explanation why the Estimate of the previous year was not carried out	Original allotment entered for the year under report — Rupees Imperial fund	Original allotment entered for the year under report — Rupees Provincial fund	Net allotment for the year under report — Rupees Imperial fund	Net allotment for the year under report — Rupees Provincial fund	Actual Expenditure during the year under report — Rupees Imperial fund	Actual Expenditure during the year under report — Rupees Provincial fund	Remarks
4	Improvements to Chittivelsa Peridgo	10	19400	Estimate not yet sanctioned			15400		15400		1083	Materials being collected
5	Reconstructing Peridgo over Gauleeraw River	10	7840	G.O. No. 223 dd 2nd May 1878			7840				3461	—Do— —Do— —Do—
6	Improving Sandy portions of Trunk road No 6 near Medapad and Nowpadah	10	23400	Rev. No. Pro: No. 1148/17 Jany/76	7/12	9	6500		650		4099	Forming Road earthwork — M. 6 — F. 2 — Yds. 66 Turfing — 4 — " — 3 Metalling & Spanelling — 1 — 7 — 153 Masonry works completed — 2 No 3 The 4th, 5th, & 6th miles of the road have been completed and the remaining miles are in progress
7	Road from Mandasa to Gopalli	10	53000	G.O. No 150 dd 28th Feby/79	24/73	4	5590		5590		3452	24th, 25th, 26th, 27th, 28th, 31st, & 32d miles of the road have been completely reformed, 23d & 29th miles partly done.
8	Improving Trunk Road No 6	10	125000	G.O. No. 749 of 24 Oct 1874	301	28	8000		800		7840	2d, 3d, 4th, 5th, 7th, 8th, 9th, 11th, 12th, & 27th miles have been completely reformed and for the remaining miles are in progress

Godavari District

Statement showing the works noticed in the Administration report for the year 1878/79

No.	Works	Rate of report on which entered	Amount of Estimate	Number and date of Sanction	Expenditure to the end of last year	Allotment for the year under report		Actual Expenditure during the year under report		Remarks
						From Imperial fund	From Provincial fund	From Imperial fund	From Provincial fund	
9	Road from Attili to Yanamcadurru = dapilleguden on Ellore Road	10	113300	G.O. No 3 of 1 Rajah 18/1878 & No 565 of 28/3/1	8856	4	8000	8000	1908	During the year the Yanamcadurru bridge has been finished &c. = cept coping to Pidestals and pillasters. About 560 cyds of gravelling done to the road.
10	Road from Viravasaram to join Attili road near Pummantra	10	53800	G.O. No 19 of 2 15th Nov. 1871	2225	8	8000	8000	4923	During the year road gravelled to a distance of 3160 running yards & 1750 Cyds gravel collected at site of road
11	Gravelling road from Vaisista Godavari at Koderu to Attili	10	63300	G.O. No 84 of 24 Jan 74 & G.O. No 1039 T. 20 June 1874	1496	5	5000	5000	3387	3/4 mile of gravel spread and 1975 Cyds gravel collected during the year
12	Gravelling road from Palakollu to Viravasaram	10	28550	Do Do Do Do	1898	4	4000	4000	4001	1615 Running yards of road gravelled in this year
13	Gravelling road from Palakollu to Doddiputta	10	32450	G.O. No 1239 T. 20 June 1874			2000	2000	2007	3/4 mile of road gravelled during the year
14	Gravelling road along east bank of Narsapur Canal	10	59400	G.O. No 84 of 24 Jan 74 & Enclosure	1858	6	4600	4600	4600	3/4 miles of road gravelled in this year

Godavari District

Statement shewing the works noticed in the Administration report for the year 1878/79

No.	Works	Road on which situated	Length of Estimate	Number and date of Sanction	Expenditure upto the end of last year	Estimate 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 Provincial Fund	From Imperial Fund	From Provincial Fund	From Imperial Fund	From Provincial Fund	
15	Rest House at Nezzipudi	10	2700	Rev. D. No. 720 of 23 Jany 1879				2460	2460	1596		Work up to basement level.
16	Road from Prakkelanka to Jungareddigudem.	10	158600	G.O. No. 169 of 13/1/79	790	11		6000	6000	5025		The Road is completed for 6 miles, gravelled & metalled upto 12½ miles & earthwork nearly completed upto 23½ miles.
17	Road from Ellore to Mundur & from Dendulur to Jungareddigudem	10	40700 / 167000	G.O. No. 583 of 27 March 1877 / 1170 of 18 Augt 73	3932			11000	11000	4982		The road from Ellore to Mundur is 8 miles long, and is completed with the exception of the bridge over the Gunderu. The road from Dendulur to Jungareddigudem is a continuation of the above road, the earth work of this road from Mundur to Tadekalapudi has been done.
18	Constructing Great Northern Road from Rajahmundry to Tuni	10	174600	G.O. No. 221 of 22 March 1878	1048	6		10000	10000	1252		Gravelling, turfing & metalling completed in 52 miles and 130 tunnels completed.
19	Gravelling road from Yerraram to Juddangy	10	19500	1011	354	4		5000	5000	3023		5½ Miles of road gravelled.

Statement showing the works noticed in the Administration Report of the Godavari District for the year 1878/79

No.	Works	Length of report on which noticed	Amount of Estimate	Number and date of Sanction	Condition of the work at the end of the 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 Provincial funds	From Imperial funds	From Provincial funds	From Imperial funds	From Provincial funds	
20	Improving road from Jaggampetta to Kottapilly	10	21147	G.O. No 1917 dated 2nd Dec 1877	507		5000		5000		4998	9½ miles of new road with gravelling turfing & earthwork completed 10 tunnels built
21	Road from Ramachendrapuram to Biccavole	10	34190	Rev. Br. Pro. No 2742 of 6th Sept. 1876 2469 of 22nd Sept. 1876	27.222		2300		2300		2134	Completed
22	Road from Alamuru to Shapeswaram	10	22430	G.O. No 245 of 21st July 1876 2469 of 27th Sept. 1876	1943	0	3000		3000		2442	Completed
23	Gravelling Road from Cocanada to Kotipilli	10	68720	Rev. Br. Pro. No 1157 of 3rd May 1876	5273	5	7000		7000		3588	Road gravelled from Cocanada to 7¼ miles from 8½ to 19⅓ and portions of 21 & 22 miles upto end of 1877/78 In 1878/79 only materials were collected
											3368	Portion between Gondrum & Seetanagaram (15¾ miles) all work with the exception of the turfing in 16⅜ miles has been completed - 15 masonary bridges out of 49 Estimated for, have been completed & 22 dams nearly so,
24	Improvement of Great Northern Road	10	421850	G.O. No 14 of 3rd May 1876	24408	5	6000		6000		2728	13⅝ miles of road completed & opened for traffic, the remaining portion in progress
25	Improvements to Amaravaty Road	10	46063	G.O. No 2711 26 October 1868	560	87	4000		4000			

Godavari District

Statement showing the works noticed in the Administration report for the year 1878/79

No.	Works	Rate of report on which estimate is based	Amount of Estimate	Number and date of Sanction	Expenditure up to the end of last year	Original allotment for the year under report — Rupees Imperial fund	Original allotment for the year under report — Rupees Provincial fund	Net allotment for the year under report — Rupees Imperial fund	Net allotment for the year under report — Rupees Provincial fund	Actual Expenditure during the year under report — Rupees Imperial fund	Actual Expenditure during the year under report — Rupees Provincial fund	Remarks
26	Constructing Chilakaluri-petta Road.	10	57,320	G.O. No 2277 of 6th Aug. 1869 & 2654 of 12th Do.	4553	6		4000	4000	1054		19½ miles of road have been completed & opened for traffic, the remaining portion is in progress.
27	Improvements to Trunk Road No. VII	10	46,500	G.O. No 1395 of 21st Aug. 1874	2367	9		4000	4000	1900		8½ miles of road being the worst portions between Brammanapalli and Dukhapally have been completed & the remaining portion is in progress.
1	Enlarging the new Zillah Jail at Vizagapatam	12	23800	Spl No 60 of 1877/78	240	8		5000	5000	4839		Solitary Cells & No 6 block have been completed No 2 Block completed except white washing; No 3 Block walls raised to a height of 5 feet above basement No 4 Block foundations have been laid and for guard rooms & Cook rooms walls raised to required height. Compound Wall has been built up to basement level and further work on the Jail has been stopped under the restrictive orders.
2	Alterations and additions to the Zilla Jail at Parvatipore	12	12270	576 of 1877/78	522			5000	5000	919		

E.

Godavari District

Statement shewing the works noticed in the Administration report for the year 1878/79

No.	Works.	Para. of report on which noticed	Amount of Estimate	Number and date of Sanction	Expenditure up to the end of previous year	Original allotment for the year under report		Net allotment for the year under report		Actual Expr. during the year under report		Remarks
						From Imperial funds	From Provincial fund	From Imperial fund	From Provincial fund	From Imperial fund	From Provincial fund	
3	Construction of Kovvur Munjair Junction Canal	12	189450	$\frac{3}{78-9}$	"	"	34970		34970	1582		Excavation of canal to a length of 3 furlongs 270 yards completed. Banks required dressing & widening up. The greater part of the river work of the Cuddapah Bridge for the Kotipilly Road was made up but the slopes were not paid owing to the restrictive orders. Arrangements had been made for the systematic and rapid progress of this work and it is much to be regretted that it had to be stopped.
4	Constructing Talugschool house at Viravasaram	12	4055	A G.O. 630 & 5 Aug. 1877	"	"	4055		4055	967		removed and Excavating foundations for the new building commenced.
5	Constructing Light house at Vakalapudi	12	6600	A G.O. 3103 & 2 Nov. 1875	630	6	150		150	2185		Work almost completed and the light house has been in use for some months

Godavari District

Statement shewing the works noticed in the Administration report for the year 1878/79

No.	Works.	Para. of report on which noticed	Amount of Estimate	Number and date of Sanction	Expenditure up to the end of previous year	Original allotment for the year under report — From Imperial funds	Original allotment for the year under report — From Provincial funds	Revised allotment for the year under report — From Imperial funds	Revised allotment for the year under report — From Provincial funds	Actual Expr. during the year under report — From Imperial funds	Actual Expr. during the year under report — From Provincial funds	Remarks.
6	Constructing Quarters for the Superintendent at Narsapur Light House.	12	3410	G.O. No 495 dd 24 April 1858			3410		3410	1582		Materials collected. Rest work suspended under restrictive orders.
7	Improvements to the Jail at Guntoor.	12	8313	G.O. No 164 dd 29 Jan 1877	22903		5000		5000	353		3 Wards Viz Hospital Ward for contagious diseases, Disection & Surgery room Hospital Cook room & privy, new Solitary Cells, Ventilators to old Solitary Cells, improvements to 2 Wards 61 3/4 feet in length each & 2 Wards 142 feet long each, General Privy, Shed for dry earth, Palisade & Compound Walls have been completed.

C. Pearl

5th May 1879

Ag Superintending Engineer 1st Circle

Enclosure of the Administration Report for 1878-79
From dated 1st May 1879.
The Actg. Superintending Engr.
1st Circle.

To, The Chief Engineer
Public Works Department
Madras.

Dated 5th May 1879.
Received

E

Statement shewing the works noticed in the Administration Report for the year 1878-79- Godavari District.

1st Circle.

Administration Report for 1878-79.

Provincial Services other than Irrigation

The allotments from Imperial funds during the year 1878-79 were as follows:—

Ganjam.

		Rs
Allotment as per Budget and as per		1280
G.O No 1770 W. of 10th April 1878		690
" 3660 W. of 16th September/78		100
" 4280 W. of 7th November/78		475
" 2661 W. of 27th June /78		233
" 2252 W. of 22 May /78		810
" 3799 W. of 27th September/78		300
	Total	3888

Vizagapatam

Allotment as per Budget and as per		12,980
G.O No 2458 W. of 11th June 1878		200
" 2661 W. of 27th " Do		683
" 3572 W. of 9th September/78		50
" 4619 W. of 5th December/78		112
		14025
Deduct as per G.O No 4221 W. 5/12/78.		400
Net allotment		13625

Godavari.

Allotment as per Budget and as per	200
G.O No 2194 W. of 17th May 1878	266
" 475 W. of 19th Feb. 1879	557
" 2541 W. of 17th June 1878	1860
" 2661 W. of 27th June 1878	200
" 3047 W. of 29th July 1878	2,680

Kistna Rs

Allotment as per Budget 15,000

and as per

G.O No 2661 W. of 27th June 1878. 364
" 3915 W. of 5th October 1878 13
" 4517 W. of 26th November/78 590
" 3985 W. of 12th October/78 21

15988

Deduct as per G.O No 3038 of 29th July 1878 - 1000

14,988

2. The net allotment was appertioned as follows:-

Districts	New Works.	Repairs	Tools & Plant	Total.
Ganjam	1498	2310	80	3888
Viragapatam	8383	4742	500	13,625
Godavari	2177	503	-	2680
Kistna	14,935	53	-	14,988

3. The allotments from Provincial funds during the year 1878-79 were as follows:-

Ganjam.

	Rs
Allotment as per Budget	15,698
and as per	
G.O. No 1379 W. of 16th March 1878	400
" 3611 W. of 4th Sept. 1878	4282
" 3742 W. of 24th Sept. 1878	324
" 2757 W. of 5th July 1878	175
" 3316 W. of 19th August 1878	243
" 2797 W. of 5th July 1878	25
" 2012 W. of 14th May 1878	3000
" 2262 W. of 27th June 1878	317
W. of 11th [illegible] 1878	850
	25,814
Deduct as per G.O No 4324 W. of 11th November 1878 - 3	850
	24,464

Viragapatam Rs

Allotment as per Budget 24,857

and as per

G.O No 1997 W. of 1st May 1878 400
" 2290 W. of 27th May 1878 100
" 2661 W. of 27th June 1878 388
" 2059 W. of 6th May 1878 1500
" 2975 W. of 24th July 1878 64
" 2893 W. of 16th July 1878 107
" 3121 W. of 3rd August 1878 160
" 3267 W. of 15th August 1878 385
" 3664 W. of 16th September 1878 188
" 4330 W. of 11th November 1878 120
" 36 W. of 6th January 1879 143

28,400

Deduct as per G.O No 3661 W. of 16th Sept/78 - 8,000
" " " 4451 W. of 22nd Dec/78 150
" " " 835 I of 19th Oct/78 180

8,330

20,070

Godavari

Allotment as per Budget 38,688

and as per

G.O. No 2363 W. of 1st June 1878 6,000
" 3663 W. of 16th September 1878 120
" 663 W. of 5th March 1878 70
" 2661 W. of 27th June 1878 1616
" Do of Do 806

47,300

Deduct as per G.O No 3798 W. of 27th September 1878 - 2,600

44,700

Kistna.

Allotment as per Budget 13,650

and as per

G.O. No 2661 W. of 27th June 1878 530
" 2893 W. of 16th July 1878 195
" 753 W. of 12th March 1879 205
" 1370 W. of 16th March 1878 500

15,080

4. The net allotment was apportioned as follows:—

Districts.	New Works	Repairs	Tools & Plant.	Total.
Ganjam	14304	9467	693	24464
Vizagapatam	13083	6880	107	20070
Godavari	18282	18520	7898	44700
Kistna	7430	6860	800	15080

5. The following table shews allotments and expenditure under the heads "Imperial & Provincial"

Districts.	Heads.	Allotment. New Works.	Repairs.	Tools & Plant	Total.	Expenditure. New Works.	Repairs.	Tools & Plant.	Total.	Unexpended balance.	Remarks.
Godavari—	Imperial	2177	503	-	2680	1140	354	-	1494	1186	
	Provincial	18282	18520	7898	44700	10728	14675	3624	29027	15673	
Kistna—	Imperial	14935	53	-	14988	845	180	-	525	14463	
	Provincial	7430	6860	800	15080	697	833	1645	3175	11905	
Vizagapatam	Imperial	8383	4742	500	13625	946	2215	112	3273	10352	
	Provincial	13083	6880	107	20070	7855	2482	293	10630	9440	
Ganjam—	Imperial	1498	2310	80	3888	139	1465	-	1604	2284	
	Provincial	14304	9467	693	24464	10421	5759	4352	11228	13236	

In the [illegible] provided for Police Lines at [illegible] of Rs 15,000 was provided for Police Lines at Narasapuram, Nizampatam and Pandraca and for improvements to Salt Cutcheries at

at China Ganjam & Nizampatam and also for construction of Beacon at False Point, Divi. This allotment was subsequently reduced to Rs 14,000, which was not utilized as estimates were not sanctioned. The allotment of Rs 7430 under "Provincial original works" includes Rs 6,000 for Range office at Duggirala which was also not utilized for the same cause.

× Western Delta Kistna.

The cause of short outlay under "repairs Provincial" was owing to stoppage of works under the restrictive orders, and the cause of excess under "Tools & Plant" was owing to the outlay on General "Tools & Plant" under all heads having been charged to the head "Provincial".

See G.O. No. 4858 M. 27 December/98.

Vizagapatam.

Of the unexpended balance of Rs 10,352 under the head "Imperial", Rs 4500 represents the allotments for constructing Tiled Building for the Salt Establishment at Karasa and masonry Head sluice at the mouth of the supply Channel at Konada, which could not be utilized as estimates for these works were not sanctioned; the remaining amount was not utilized owing to the stoppage of work under the head

The unexpended balance of Rs 94[illegible]

head Provincial was also due to the
stoppage of works in December 1878 under
the restrictive orders.

Ganjam.

The short outlay under the heads
"Imperial & Provincial" was generally due to
certain liabilities incurred not having
been provided for under G.O No. 402 W. of 10th Febru-
-ary 1879. and for two other reasons. (1) An
estimate amounting to Rs 475 for additions to
Post office at Berhampore, sanctioned in G.O
No. 4280 W. of 7th November 1878 could not be put
in hand under the restrictive orders. (2) A
large recovery of Rs 6435 was made under the
head "Provincial Tools & Plant" on account of
certain tools supplied by the General Supdt
P.W. Stores.

The allotments in the Godavari under
the above heads were likewise not fully utili-
-zed under the restrictive orders to stop
all works. The allotment of Rs 2177 under
the head "Imperial" includes a sum of Rs
557 allotted in G.O No. 475 W. of 19th February 1879
[illegible] Department in Printing and
Stationery and Ellore,
this

this adjustment has not however been
made as yet, but it is hoped will be done
in the Examiner's Office before the accounts
of the year are finally closed.

6. The important original works under
execution during the year were as follows:-

1 Additions to the Collector's Cutchery at Cocanada

		Rs
1	Amount of estimate	10,700
2	Grant for 1878-79	6,000
3	Expenditure during 1878-79	4348
4	Total Do to end of Do	4348

Progress.

The Building is one foot above base-
-ment & much of the wood work has been pre-
-pared ——— " ———

2. Improvements to Head Assistant Col-
-lector's Cutchery at Bezwada.

		Rs
1	Amount of estimate	1,940
2	Grant for 1878-79	445
3	Expenditure in Do	389
4	Total to end of Do	2061

Work completed at an excess expenditure of
Rs (121) which excess will be recovered shortly.

3. Additions to the District Munsiff's
Court house at Bezwada.

Rs.

		Rs
1	Amount of Estimate	3,450
2	Grant for 1878-79	185
3	Expenditure in Do	182
4	Do to end of Do	8,447

Work Completed.

4- Improvements to the Collector's Cutchery at Vizagapatam.

		Rs
1	Amount of revised estimate (Original Do Rs 3010.)	6739
2	Grant for 1878-79	166
3	Expenditure in Do	1620
4	Total Do to end of Do	6739

Work has been completed in 1878-79.

5- New Potinghy Ghaut.

		Rs
1	Amount of estimate	1,30,400
2	Grant for 1878-79	1893
3	Expenditure in Do	284
4	Total Do to end of Do	65,852

No work was done on the Ghaut during the year 1878-79, as the work was suspended in December 1878 under restrictive orders just at the time of the working season.

6- Purchasing the Revd Asst Agents Bungalow at Russelkondah.

		Rs.
1	Amount of estimate	4282
2	Grand in 1878-79	4282
3	Expenditure in Do	4282

money

money was paid to Major Smith and the Building taken charge of, on 6th May 1878.

7. Reconstructing the roof of the Police Hospital at Kimedy.

		Rs
1	Amount of estimate	1,020
2	Grant for 1878-79	1020
3	Expenditure in Do	1020

Work Completed.

8- Construction of Police huts at Chicacole.

		Rs
1	Amount of Estimate	2072
2	Grant for 1878-79	1050
3	Expenditure in Do	1005
4	Total expenditure to end of Do	1005

Foundation to Mud walls completed; Brick in chunam pillars to two rows of building raised to a height of 4½ ft above foundation. Some materials collected & doors and Windows got ready.

9. Canal from Chilka Lake to Ganjam Port.

		Rs
1	Amount of estimate	1,41,370
2	Grant for 1878-79	5370
3	Expenditure in Do	3995
4	Total Do to end of Do	1,37,980

14789 Cyds of earth work excavated in the 4th Step, up to the end of August 1878. Work was not resumed in March 1879 under the restrictive orders

7.

Rs 1519 ... of Anaka... harajah ... Tam Dist... in the ... Rs 1437 ...

8.

The ... outlay ... the year ... This ... General ... * manage...

Private Contributions.

...ere contributed by the Proprietor ...illy, Kassimcottah and the Ma... ...Vizianagram in the Vizagapa... ...trict for repairs to Irrigation works ...rvaxiddy Taluq of which sum ...e expended during the year 1878-79.

Local Funds.

...llowing Table shews the total ...urred by the P.W. Agency during ...8-79 under the head Local. ...des the expenditure from Road, ...d Endowment, Funds under the ...ent of the Local Fund Boards.

Districts	Circles	Allotment. New Works.	Allotment. Repairs	Allotment. Tools & Plant	Allotment. Total	Expenditure. New works	Expenditure. Repairs	Expenditure. Tools & Plant	Expenditure. Total	Unexpended balance	Remarks.
Ganjam	Aska	...cole 20,383	43,211	1020	64614	8011	32,447	-	40,458	24156	
	Chatterpore	25487	47,540	670	73,697	16,300	20,114	"	52,414	17283	
Vizagapatam	Vizagapatam	76735	83848	2420	163003	18,318	57,354	2281	71,953	91,050	
Godavari	Cocanada	90971	62797	1010	154778	84478	64179	-	148657	134287	
	Ellore	90316	36760	1040	128116						
Kistna	Masulipatam	23094	50036	1180	74610	28589	66457	"	95,026	130852	
	Guntoor	44791	46677	800	91268						

√7

The expenditure on Local Fund Works during the year was on the average only half of the allotments for the different Circles. The progress of these works was first stopped under GO No. 4858 W. of 27th December 1878, restricting the outlay to 1/3 of the unspent balances of allotments at end of December 1878, subsequently in a telegram dated 8th February 1879, instructions were received to keep expenditure in non-famine Districts from Local Funds as high as the collections on account of Local Funds would justify, but this Department was not in a position to know what the collections from Local Fund would be and had to make references about it to the Presidents of the several Local Fund Boards, all this took time & the conflicting orders and uncertainty as to what really might be expended fully account for the short expenditure. The President of the Local Fund Boards, Ganjam wrote to the Division Officer as well as to this Office Not to incur any expenditure on Local Fund works in the Aska Circle as there was a large deficit of funds and also requested that expenditure on the works in the Chetterpore Circle should be restricted as much as possible.

llowing are some of the works on
e balances remained unspent at
the Official year-

e of work	Allotment for the year 1878-79.	Outlay	Balance	Remarks.
anjam.				
to Trunk Road No 6 on ortions near Medapam	6,500	4100	2,400	Work was stopped under restrictive orders.
Mookalingam from ramandalam Road	2000	"	2000	Do Do
y works on Trunk Road	1833	165	1668	Do Do
rakory Mulla	893	"	893	Do Do
dasa to Goppili	5590	3452	2138	Do Do
Gopalpore	2240	"	2240	This work was not commenced owing to the site not having been fixed
	2000	554	1446	
avadri.				
dun Bridge to	2300	371	1929	Works were stopped under the restrictive orders.
from Ramachendra	2240	1220	1020	
Pissavole	7000	3588	3412	
nada to Katipilli	2950		2992	
Do to Nelapilly	2000	"	2000	
village of Drachalam				
Road from Rajah- muni	10,000	1262	8748	
from Ypnanaram	6,000	3023	1977	
e to Mundus & ion to Imparitigudi	11,000	4982	6018	Work stopped under restrictive orders
a portion of Trunk from Ellore towns to the	7490	-	7490	Unspent owing to late receipt of appropriation

Improving existing Choultry at Pithapuram	2000	918	1082
Do a New for Sudras &c at Do	1920	256	1664
Culvert over Pattia Calva drain on the Road from Pranali to Vizaicharam	1370	-	1370
Do over Gaggiparru drain on the road from Palakollu to Doddipatla	940	-	940
Do over Sina devuni Chikala Channel on the Road from Palakollu to Veeranavaram	460	-	460

Work stopped under restrictive orders.

Works were left untouched owing to late date at which estimates and allotment were sanctioned.

Kistna.

Improvement to great Northern Road	6,000	3368	2,632
Do to Amaravaty Road	4000	2728	1272
Constructing Peduguralla Road	6000	630	5370
Do Chilakalurpetta Road	4000	1054	2946
Completing village portions of the Nara varoupetta & Chinapalakalu Road	2000	964	1036
Improvements to Trunk Road No VII	4000	1900	2100
Road from Ibarampatam to Illpavaram	1454	464	990
Constructing Dispensary at Juggiahpetta	2760	"	2760
Do Do at Bezwada	4,000	-	4,000
Do Do at Nuzeed	3,000	-	3,000
Do Do at Tiruvoor	3,000	-	3,000
Do Do at Chebrole	2,000	-	2,000
Do Do at Vinuconda	2,000	-	2,000
Do Do at Dachepilli	2,000	-	2,000
Do De at Narsaraopetta	2,000	-	2,000
Do Do at Tummuracodu	2,000	-	2,000
Do Do at Krosur	2,000	-	2,000

Good progress was not made under restrictive orders.

The work was not commenced as the site for it had not been settled.

The estimates for these buildings are yet under preparation. No expenditure was consequently incurred in 1878-79.

10. The following were the important original works under execution from Local Funds

Vizagapatam

1 Completing the Great Northern Trunk Road from Kostah to Chicacole.

		Rs
1	Amount of Estimate	45910
2	Grant for 1878-79	6000
3	Expenditure in Do	4198
4	Total expenditure to end of Do	36432

The

The work has been completed as far as Chilakapallem. Between Chilakapallem and Chicacole earth work has been completed & the masonry works nearly so.

2. Completing Road from Palakonda to Par-

		Rs
1	Amount of estimate	47930
2	Grant for 1878-79	8490
3	Expenditure in Do	3666
4	Total Do to end of Do	28,562

3. Constructing Road from Vizianagaram to Nathavalasah-

		Rs
1	Amount of estimate	30,836
2	Grant for 1878-79	5000
3	Expenditure in Do	3166
4	Total to end of Do	4225

Earth work completed in the first 2 miles and masonry works are under construction.

4. Improvements to Chittivalasa Bridge

		Rs
1	Amount of Estimate	19,400
2	Grant for 1878-79	15,400
3	Expenditure in Do	1083
4	Total Do to end of Do	1083

Materials being collected.

Reconstructing bridge over Gambheram River.

		Rs
1	Amount of Estimate	7840
2	Grant for 1878-79	7840
3	Expenditure in Do	3461
4	Total Do to end of Do	3461

Materials being collected.

Ganjam.

6 Improving sundy portions of Trunk Road No 6 near Medapam and Nowpadah

		Rs
1	Amount of Estimate	23400
2	Grant for 1878-79	6500
3	Expenditure in Do	4099
4	Total Do to end of Do	15228

Progress

	M.	F	Yds
Forming Road - Earth work	6	2	66
Turfing	4	—	3
Metalling & gravelling	1	7	153

Masonry works completed - Nos 3-

7- Road from Mandasa to Goppili-

		Rs
1	Amount of estimate	53,000
2	Grant for 1878-79	5590
3	Expenditure in Do	3452
4	Total Do. to end of Do	28186

The 4th, 5th & 6th miles of this road have been completed and the remaining miles are in progress-

8. Improving Trunk Road No 6.

		Rs
1	Amount of estimate	1,25,000
2	Grant for 1878-79	8000
3	Expenditure in Do	7840
4	Total Do to end of Do	37988

Trunk Road North.

24th, 25th, 26th, 27th, 28th, 31st & 32nd miles of the road have been completely reformed, 23rd & 29th miles partly done-

Trunk Road South.

2°, 3°, 4°, 5°, 7°, 8°, 9°, 11°, 12° & 27° miles have been completely reformed & for the remaining miles are in progress.

Godavari.

9. Road from Attili to Tadapalligudem on Ellore road.

		Rs
1	Amount of Estimate	113300
2	Grant for 1878-79	8,000
3	Expenditure in Do	1908
4	Total Do to end of Do	90472

During the year the Yenamadurru bridge has been finished except coping to Pedestals & pilasters. About 560 Cyds of gravelling done to the road.

10. Road from Viravasaram to join Attili road near Penumantra.

		Rs
1	Amount of Estimate	53,800
2	Grant for 1878-79	8000
3	Expenditure in Do	4923
4	Total Do to end of Do	27181

During the year Road gravelled to a distance of 3160 running yards & 1760 Cyds gravel collected at site of road.

11. Gravelling road from Kanter Koda- vare to Attili.

		Rs
1	Amount of estimate	63300
2	Grant for 1878-79	5000
3	Expenditure in Do	3387
4	Total Do to end of Do	18352

3/4 mile of gravel spread and 1975 Cyds gravel collected during the year.

12. Gravelling Road from Palakollu to Viravasaram.

		Rs
1	Amount of estimate	28550
2	Grant for 1878-79	4000
3	Expenditure in Do	4001
4	Total to end of Do	22984

1615 Running yards of road gravelled in this year.

13. Gravelling road from Palakollu to Doddipatla

		Rs
1	Amount of estimate	32450
2	Grant for 1878-79	2000
3	Expenditure in Do	2007
4	Total Do to end of Do	2007

3/4 mile of road gravelled during the year.

14. Gravelling road along East bank of Narsapia Canal.

		Rs
1	Amount of estimate	59400
2	Grant for 1878-79	4600
3	Expenditure in Do	4600
4	Total Do to end of Do	23186

3/4 mile of road gravelled in this year.

15. Rest house at Reggipudi

		Rs
1	Amount of estimate	2700
2	Grant for 1878-79	2460
3	Expenditure in Do	1596
4	Total Do to end of Do	1596

Work up to basement Level.

16. Road from Prakkilanca to Jangareddigudem

		Rs
1	Amount of estimate	158,600
2	Grant for 1878-79	6000
3	Expenditure in Do	5025
4	Total Do to end of Do	84036

The Road is completed for 6 miles; gravelled & metalled up to 12½ miles & earth work nearly completed up to 23½ miles.

17 Road from Ellore to Mundur & from Dendulur to Jangareddigudem.

		Rs
1	Amount of estimate	40700 / 167800
2	Grant for 1878-79	11,000
3	Expenditure in Do	4982
4	Total Do to end of Do	38302

The road from Ellore to Mundur is 8 miles long, and is completed with the exception of the Bridge over the Gunderu. The road from Dendulur to Jangareddigudem is a continuation of the above road, the earth work of this road from Mundur to Thadikalapudi has been done.

18. Constructing Great Northern Road from Rajahmundry to Tuni.

		Rs
1	Amount of estimate	174600
2	Grant for 1878-79	10000
3	Expenditure in Do	1252
4	Total Do to end of Do	106108

Gravelling, turfing & metalling completed in 52 miles and 130 tunnels completed.

19. Gravelling road from Yerravaram to Suddagunta

		Rs
1	Amount of estimate	19,500
2	Grant for 1878-79	5000
3	Expenditure in Do	3023
4	Total Do to end of Do	6567

5/2 miles of road gravelled.

20 Improving road from Jaggampet to Kottapilli.

		Rs
1.	Amount of estimate	21,147
2	Grant for 1878-79	5000
3	Expenditure in Do	4998
4	Total Do to end of Do	5505

3½ miles of New Road with gravelling turfing and earth work completed; 10 tunnels built.

21 Road from Ramachendrapuram to Biccavolu

		Rs
1	Amount of estimate	34190
2	Grant for 1878-79	2300
3	Expenditure in Do	2184
4	Total Do to end of Do	29406

Completed.

22 Road from Alamur to Thapaiswaram

		Rs
1	Amount of Estimate	22,430
2	Grant for 1878-79	3000
3	Expenditure in Do	2442
4	Total Do to end of Do	21,872

Gravelling Completed.

23 Road from Cocanada to Katipilly-

		Rs
1	Amount of estimate	68720
2	Grant for 1878-79	7000
3	Expenditure in Do	5688
4	Total Do to end of Do	56,323

Road gravelled from Cocanada to 7¼ miles, from 8½ to 9⅓; 4 portions of 21 & 22 miles, up to end of 1877-78. In 1878-79 only materials were collected.

Kistna.

24 Improvement of Great Northern Road.

		Rs
1	Amount of estimate	4,21,850
2	Grant for 1878-79	6,000
3	Expenditure in Do	3,368
4	Total Do to end of Do	2,47,457

Portion between Guntoor & Seetanagaram (18¾ miles). all work with the exception of the turfing in 4⅝ miles has been completed. Turfing out of 49 estimated for, have been completed and 2 doors nearly so.

25. Improvements to Amaravaty Road.

		Rs
1	Amount of estimate	46,063
2	Grant for 1878-79	4000
3	Expenditure in Do	2728
4	Total Do to end of Do	38,815

13 5/16 miles of road completed and opened for traffic; the remaining portion in progress.

26 Constructing Chilakaluripetta Road.

		Rs
1	Amount of Estimate	57320
2	Grant for 1878-79	4000
3	Expenditure in Do	1054
4	Total to end of Do	46,590

19½ miles of Road have been completed and opened for traffic; the remaining portion in progress.

27. Improvements to Trunk Road No VII

		Rs
1	Amount of Estimate	46500
2	Grant for 1878-79	4000
3	Expenditure in Do	1900
4	Total Do to end of Do	25,579

8½ miles of road, being the worst portion between Brammanapalli & Dachapilly have been completed & the remaining portion is in progress.

11. The following Table shows the allotment and expenditure under the head "Special" consisting of "Port, Educational, and Canal and Ferry Funds".

District	Heads.	Allotment. Port Fund.	Educational Fund.	Canal & Ferry Fund.	Commissariat Labor Fund.	Total.	Expenditure. Port Fund.	Educational Fund.	Canal & Ferry Fund.	Commissariat Labor Fund.	Total.	Unexpended balance.
Ganjam	New Works	5670	2287	-	-	7857	271	62	-	-	883	7024
	Repairs	700	460	-	-	1150	606	52	-	-	657	493
	Tools & Plant	-	-	-	-	-	-	-	-	-	-	-
		6270	2737	-	-	9007	876	614	-	-	1490	7517
Vizagapatam	New Works	-	3725	-	16095	19820	629	1631	-	6769	9029	10791
	Repairs	100	500	-	-	600	-	-	-	-	-	600
	Tools & Plant	-	-	-	-	-	-	-	-	-	-	-
		100	4225	-	16095	20420	629	1631	-	6769	9029	11391
Godavari	New Works	17860	4263	26363	-	58486	2244	1036	1646	-	4926	53560
	Repairs	-	100	-	-	100	-	-	-	-	-	100
	Tools & Plant	-	-	16000	-	16000	-	-	-	-	-	16000
		17860	4363	52363	-	74686	2244	1036	1646	-	4926	69660
Kistna	New Works	5111	250	-	5000	10361	-	-	-	353		
	Repairs	100	-	810	-	910	-	-	-	-		
	Tool & Plant	-	-	-	-	-	-	-	-	-		
		5211	250	810	5000	11271	-	-	-	-		

The allotment from Port fund for New Wks in the Ganjam District includes the sum of Rs 5,000 allotted for the Master Attendants house at Gopalpore. This work was ordered to be executed by Contract by the Revenue Department. The Division offim at Ganjam reports that the short outlay from the Educational fund,

"original

"Original works", was on the work "adding a wing to the Taluq school at Ruvelconda which on account of the delay on the part of the Educational Department in handing over the Building to this Department, could not be proceeded with.

The allotments under the above head in the Vizagapatam District, have, under the restrictive orders, been reduced to Rs 11044, as shewn in this offices revised Budget dated 22nd February 1879. The outlay against the reduced grants was Rs 9029 & the unexpended balance was Rs 2015. This balance was intended to meet the outstanding claims for work done on certain works, but as no orders on the revised Budget for 1878-79 were received the outstanding claims could not be settled, & hence the cause of short outlay.

The allotment under "Port Fund-New Works in the Kistna was not utilized owing to the restrictive orders & this was the case also as regards the allotment of Rs 5,000 sanctioned for improvements to the District Jail at Guntoor under the head "Commiat labor fund". An allotment of Rs 810 was sanctioned in Revenue Boards Proceedings dated 4th February 1878, Rs 1066 from Canal & Ferry Funds for repairs to Pondugal Ferry Boat, but the work

work was not put in hand consequent upon receipt of orders restricting expenditure.

In the Godavari the allotment of Rs 17,850 from Port funds, includes Rs 5,000 for improving the south groyne and dredging the Cocanada Harbour and Rs 8850 for Quarters to the Master Attendant at Cocanada; the former was to be carried out by the Marine Department & with the latter this Department had nothing to do, as the Collector was authorized in G.O 4314 W of 9th November 1878 to purchase the Building known as the "Marine Villa", the remaining sum was not fully utilized, under the restrictive orders. The allotment from the Educational fund could not also be utilized owing to the restrictive orders. The allotment from Canal & Ferry funds includes the large sum of Rs 84970 for construction of the Kouir - Manjair Junction Canal on which only Rs 1682 were spent - The work was in rapid progress when it was stopped under the restrictive orders - The allotment of Rs 16000 under the head "Tools & Plant" was made up of Rs 15000 for a steamer for Rajahmundry Ferry & Rs 1000 for construction of Boats by Revenue Department both these allotments were not utilized.

12. The most important works under execution from "Special funds" during the year 1878-79 were the following:

1 Enlarging the New Lillah Jail at Vizagapatam.

		Rs
1	Amount of estimate	23,300
2	Grant for 1878-79	5000
3	Expenditure in Do	4839
4	Total Do to end of Do	7247

Solicitary cells No 6 block have been completed, No 2 block completed except white washing; No 3 block - Walls raised to a height of 5 feet above basement; No 4 block - foundations have been laid & for guard room & cook rooms - Walls raised to requisite height.

2. Alterations & additions to the Hill Jail at Parvatipore.

		Rs
1	Amount of estimate	12,270
2	Grant for 1878-79	5000
3	Expenditure in Do	919
4	Total Do to end of Do	1521

Compound wall has been built upto basement level and further work on the said has been stopped under the restrictive orders.

3. Construction of Kouir - Manjair Junction Canal.

Rs.

		Rs
1	Amount of estimate	189450
2	Grant for 1878-79	34970
3	Expenditure in Do	1582
4	Total Do to end of Do	1582

Essavation of Canal to a length of 8 furlongs and 270 yards completed (banks require dressing and making up) The greater part of the iron work of the Girder Bridge for the Katipilly Road was made up but the shops were not paid owing to the restrictive orders — Arrangements had been made for the systamatic & rapid progress of this work & it is much to be regretted that it had to be stopped.

4 Constructing Taluq school house at Viravasaram

		Rs
1	Amount of estimate	4055
2	Grant for 1878-79	4055
3	Expenditure in Do	967
4	Total Do to end of Do	967

The old Building removed & excavating foundations for the new building commenced.

5. Constructing Light house at Vakalapudi.

		Rs
1	Amount of estimate	6600
2	Grant for 1878-79	150
3	Expenditure in Do	216
4	Total Do to end of Do	6574

Work almost completed & the Light house has been in use for some months.

6. Constructing Quarters for the Supt at Vakalapudi Light House.

		Rs
1	Amount of estimate	3410
2	Grant for 1878-79	3410
3	Expenditure in Do	1582
4	Total to end of Do	1582

Materials collected but work suspended under restrictive orders.

7- Improvements to the Jail at Guntoor.

		Rs
1	Amount of estimate	37313
2	Grant for 1878-79	5000
3	Expenditure in Do	353
4	Total Do to end of Do	23256

13 Works, viz. Hospital, Ward for Contageous diseases, Direction & Surgery rooms, Hospital Cook room & Privy, New Solitary cells, Improvements to 2 Wards 61¾ feet in length each and 2 wards 142 feet long each, General Privy, shed for dry earth, Palisade & Compound walls, have been completed.

13. The following is a Comparative statement shewing the maximum and minimum heat 1877-78 and 1878-79 taken from Meteorological Register maintained at Dowlaishwaram.

Temperature	1877-78 month & date	Degrees	1878-79 month & date	Degrees
Maximum	May 27	110-0	May 21	109-5
Minimum	January 2	68-0	Jan 22	68-0

Quarries

Quarries.

14. The quantity of stone despatched from the Dowlaishwaram Quarries during the last 3 years was as follows:-

years	Quantity in Cubic yards	Remarks.
1876-77	35,556	Including "Building stone."
1877-78	21,060	" Dressed ——— Do ——— "
1878-79	27,220	" Cyclopean ——— Do ——— "
		" Groyne ——— Do ——— "
		" Concrete ——— Do ——— "

Famine Relief.

15.

Ganjam.

The total expenditure on works executed in Ganjam amounted to Rs 3279-5-9 and on account of Establishment was Rs 617-2-0.

The following were the works executed -

1. Chilka Lake Canal. — A sum of Rs 30-4-4 was spent in laying out the boundaries of the Canal. This work was first proposed to be commenced as a Famine Relief work but post poned, as there was not such pressure felt as to warrant its being started as such.

2. Repairs to Trunk Road. — The 6th, 7th, 8th & 16th miles of the Road were reformed and the side edging con- of the Trunk Road (1 south) 2

Vizagapatam

No Famine Relief works were carried out

out by the P.W.D. Department but a sum of Rs 153-4-11 was debited to this head on account of expenses incurred in preparing Plans and sections of the Vizagapatam backwater.

Godavari

None

Kistna.

In the Kistna the Famine Relief works carried out during the year were "Agricultural works" which are particularized in the Irrigation Administration Report.

Kimedy Estate Works.

16. The Public Works carried out from funds of this Estate, under the managment of the Court of Wards are not noticed in this Report, as they were transferred to the Revenue Department, under G.O No 386 W of 7th February 1879.

Public Health

17. The Hospital Assistant at Dowlaishwaram reports that the health of the General public and the Public Works Department in the Godavari District during the year 1878-79 has been moderately good. The diseases prevalent were Fever, Cholera, & ague. Cholera especially prevailed in April, May, July 1878 and January

January 1879. The public health in the Kistna is reported by the Guntoor Division Officer is as follows:—

"Small pox prevailed in all talugs in April, May & June & disappeared by October and fever which commenced in last official year continued increasing till December 1879. Cholera was prevalent in Bezwada in July and in all Talugs in August & September and disappeared by November."

16. Operations of the Bezwada & Doulaishwaram Workshops.

The total expenditure during the year 1878-79 was Rs 97,943; of which (1) Rs 57,835, was for New Works, and (2) Rs 19,688 was for repairs (3) The value of work done for private parties amounted to Rs 3780 and (4) the expenditure on Workshop stores and sundries amounted to Rs 16,640. The charge for establishment was Rs 16,463, being 17 per cent on the value of work turned out, not including stores & purchases. The recoveries by Bills during the year amounted to Rs 49,109.

Bezwada Workshops.

The operations of the Bezwada Workshops during the year were chiefly making punts, ballast boats, Santaranies, Pedaganjams sea lock gates, also executing annual maintenance repairs

repairs to Floating Plant.

Expenditure of the Circle.

19. The total expenditure under all heads in 1878-79 in all the four Districts of the Circle was much less than that of the preceding year, (vide the figures in the following table) and this is owing to the restrictive orders, which came just before the chief working period of the Official year commenced.

Districts	1877-78	1878-79
Ganjam		1,37,581
Vizagapatam	Information not available.	100118
Godavari	6,49,334	4,90,110
Kistna	3,88,548	2,77,294
Total Rupees		10,05,103

x will follow

The statement E accompanys this Report.

C. Revell

Ag Sup[r] Engineer 4th Circle

Jeanada - 5th January 1879.

Comp[d] R[s]

From

The Ag: Supg Engineer

1st Circle

To

The Chief Engineer

P. W. Department

Madras

dated 16th May 1879

encl 3 Nos

Administration

Report for 1878-79

Forwards for

Provincial & Extra Provincial Services, other

than Irrigation.

Irrigation - one

Imperial, Provincial

Local & special fund

Encls.

NO. 104

FROM,

THE S. E. SUPERINTENDING ENGINEER

First Circle

~~CUDDALORE~~ DISTRICT.

TO,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT

MADRAS.

via

CAMP DOWLAISHWERAM, 16th May 1879

SIR,

With reference to C O No 1026 W dated 2d April 1879. I have the honor to inform you that the Administration Reports of the 1st Circle for 1878-79 were despatched from this office on the dates noted in the margin.

I have the honor to be

Sir

Your most obedient Servant

A. Stuart

Ag Supg Engineer 1st Circle

Caught Kish

General.

FROM,

THE Ag. SUPERINTENDING ENGIN

~~GOLAVERY DISTR~~
1st Circle

O,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTM

MADR

DATED 16th May 187
RECEIVED

No. 104

ENCLOSURE.

Administration report
for 1878/79.
Informs the despatch of

No 3515.

Third Circle.

Administration Report

Roads and Buildings for the year 1878-79.

1. The allotments for the year and Outlay have been as follows.

Enc 1.

	Grant	Outlay
North Arcot District		
Original Works.		
Imperial		
Military Buildings	1758	1254
Other Services Telegraph	184	179
Provincial		
Civil Buildings	2,323	877
Communication	"	"
Miscellaneous Public Improvmts	"	"
Local		
Buildings	25	25
Communication	1166	634
Special	"	"

Repairs		
Imperial		
Military Buildings	2,282	2,274
Provincial		
Civil Buildings	5,621	5,562
Communications	"	"
Local		
Buildings	136	108
Communications	9,466	7,377
South Areas District		
Original Works.		
Imperial		
Military Buildings	"	"
Salt	485	483
Postal	450	458
Provincial		
Civil Buildings	5185	4024
Communication	"	"
Mis: Public Improvements	"	"
Tools and Plant	38	40
Local	3,421	3,157
Buildings	9,390	9,694
Communication	"	108
Mis: Public Improvements		
Special	4978	4978
Port Funds		

Repairs		
Imperial		
Military Buildings	"	"
Salt	3,485	3,254
Postal	55	59
Provincial		
Civil Buildings	5,211	5,258
Communications	"	"
Tools and Plant	650	1,835
Local		
Buildings	1027	687
Communications	77,435	87,582
Special		
Mis: Public Improvements	52	49
Educational	1,459	1,307
Chinglepet District.		
Original Works.		
Imperial		
Military Buildings	32,964	29,626
Salt	"	"
Provincial		
Civil Buildings	2717	8,686
Communication	"	"
Mis: Public Improvements	3608	3608

Local		
Buildings	"	"
Communications	13,775	10,013
Special		
Civil Buildings	28,897	6,999
Repairs		
Imperial		
Military Buildings	32,009	30,859
Salt	"	"
Provincial		
Civil Buildings	13,472	7,024
Communications	"	"
Local		
Buildings	"	"
Communications	60,843	60,991
Special		
Civil Buildings	661	483
Presidency		
Original Works		
Imperial		
Military Buildings	87,231	85,778
Other Services	3	3
Provincial		
Civil Buildings	56,800	57,326
Communication	"	5047
Communications	1150	1124
Mis: Public Improvements	1092	1510
Tools and Plant		
Repairs		
Imperial		
Military Buildings	58,498	57,290
Salt	"	"

Provincial

Provincial		
Civil Buildings	26,644	27,290
Communications	13,454	13,494
Mis: Public Improvements	2,511	2,752
Tools and Plant	1,502	1,573
Bangalore		
Original Works		
Imperial		
Military Buildings	25,191	24,191
Salt	"	"
Provincial		
Civil Buildings	602	602
Communication	"	"
Mis: Public Improvements	"	"
Repairs		
Imperial		
Military Buildings	38,638	37,701
Other Services Telegraph	506	388
Provincial		
Civil Buildings	249	249
Communications	"	"
Buckingham Canal		
Imperial	9,247	8,562
Provincial and Famine	155,600	595,230
Special Fund	235	235
Local	2,300	1,600

Contribution from Private Individuals.

2. Amount of Rs. 225 was contributed by one Lutchumana Row for constructing a Surplus weir to Ballur Lutchumana Row Tank. The work was undertaken but stopped immediately with some other work owing to want of funds.

Original Works

Imperial

Military Buildings

3- Constructing a double Storied Hospital at Poonamallee. Estimate Rs. 102,000.. This magnificient looking building was, with but few omissions, completed about close of 1878, but owing to the delay in obtaining a Duff's Range from Madras. the Building was not finally handed over till March 1879. This work, although carried out by Departmental Agency throughout has been completed considerably within the Original Estimated figure. an almost unprecedented fact, in the Annals of this Department.

and one that reflects great credit on the Overseer immediately in charge, as well as on the Range Officer.

4. Re-roofing of the North Block old Hospital Poonamallee Estimate Rs. 4406. The raising of the walls of this Block of the Old Hospital about 3 feet and fixing on an upper Ventilating Roof has added very considerably to the comfort of the Patients.-

5. Fitting up Ammunition Racks in the Old Ordnance Laboratory Mount Estimate Rupees 9,800. This work was very satisfactorily carried out by Contract Agency. The Racks have been made of good Teak and have been well finished off. The entire Building has been thoroughly restored and all the Door and Window fittings are of Copper.

Lightning Conductors have been added to the outside of Building.—

6. Constructing Egg-shaped Drain South of the R.A. Barracks Mount. Estimate Rupees 2460.- This work was commenced towards the close of the year, but no sooner was it commenced, than it was put a stop to, owing to the stoppage of all works.

The object of the Drain is to Carry off the Bath and Cook House water, so that the reasons put forward by the Senior Medical Officer, who has strongly recommended its being made a closed Drain, are some what obscure, for it is a matter of importance, that all such Drains, although not Sewers, should be readily flushed and cleaned Constantly - the Drain, as now designed, will most assuredly prove a constant source of annoyance, as there are no efficient means of flushing it.- It might be found possible to employ a boy to clean it out periodically, but such an expedient

is not always a safe one to have recourse to.-

7 Purchase of site for Native Infantry Lines at Poodoopett Estimate Rupees ——.- A Sum of Rupees 24,830 was allotted in G.O. No. 1739 M. dated 8th April 1878 for the purchase of site for Native Infantry Lines at Poodoopett and this sum was paid to the Collector of Madras to complete the purchase.

8. Making improvements to the Gun Powder Factory Estimate Rs. 54,010. This work was sanctioned in G.O. No. 655 M. dated 27th August 1877. The earth work was undertaken by famine Labor. The original estimate has been considerably exceeded.

A revised Estimate and a Comparative Statement was submitted by the North Sub Divisional Officer but they were returned to him for resubmission with further information of the cause of excess - When they are received they will be submitted for Sanction. The work is $\frac{3}{4}$ths completed.-

9- Lightning Conductor to the European Infantry Magazines in the Fort Estimate Rs. 2,330- The original Estimate for this work amounted to Rs. 1350, but as this amount was exceeded on account of the enhanced rate of Copper, a revised Estimate amounting to Rupees 2330 was sanctioned in G. O. No. 2326 W dy 29th May 1878.- The work has been satisfactorily completed.-

10. Additions and alterations to the office of the Examiner of Comsh: Accounts, Fort Estimate Rs. 677.- This work was originally sanctioned at an estimated cost of Rupees 590, but as it had been found during the execution of the work, that no provision was made in the Estimate for a Sky light, the same was brought to the notice of the Superintending Engineer 3d circle, and a revised estimate amounting to Rupees 677 was sanctioned in G. O. No. 451 W dy 14th February 1879 - A Sum of Rupees 100 was allotted in the revised Budget towards the erection of the Sky light, but the work was not carried out as the Budget was received only at the close of March 1879.-

Application for funds was made in the Statement of Incomplete Works Submitted for 1878-79.

11- Constructing Napier Battery- Estimate ——— Rupees. 16,610

Constructing Light House Battery Estimate ——— Rupees- 17,910

Constructing Clives Battery Estimate ——— Rupees —— 9020.

The construction of these Batteries was Commenced on emergency under G. O. No. 2044 dated 6th May 1878.

The earth work was carried out by famine labor, while the concrete work was done chiefly by the Sappers.

The whole work was satisfactorily Completed.

The Olives Battery was all completed with the exception of 2 platforms - this will be carried out in the year 1879-80 as soon as funds are allotted for which a sum of Rs 2,978 was applied for in the Statement of Incomplete works.

12. In addition to the above works - 24 Minor New Works have been completed.

13. Drainage Native Infantry Lines. Estimate Rupees 14,400 - The work is completed with the exception of the levelling of the earth work.

14. Additions to Ulsoor Water works. Estimate Rupees 66,598 - New filter completed except opening out the outlet pipe which is at present under water. Roof and cistern in Bakery Sqre has been put on, but galvanized Screws have to be Substituted for ordinary Screws which could not be done owing to want of funds. The new engine has been put together and is now working - the roofs to cisterns at Ulsoor and Agram barracks have not yet been put on - a revised estimate for further Sanction for lighter roofs is to be submitted.-

Providing

15. Providing racks in the Ordnance Gunpowder Magazine, Fort - Estimate Rupees 2,560 - Racks for one Magazine have been completed and handed over; the racks for the other Magazines are all ready and only to be fitted together: this was held in abeyance for want of Sanction for asphalting the floor.-

16. Dismantling the Native Infantry and Volunteer Stop Markers &c Butts. Estimate Rs 2873 - Completed and handed over to the Military Authorities during the year.

17. In addition to the above - 12 Minor New works were undertaken during the year - of which 10 were completed and two were Stopped for want of funds.

18. The works under this head are of a trifling nature and call for no special remark; but the revised Budget was only received at the close of the Official year - which is the cause that Sums in full were not utilized.-

Imperial.

Salt.

19. The following are the works carried

out during the year under this head.

i. Opening Cumore bar. Estimate Rs. 6,360

Constructing groyne at Cumore

Estimate Rupees. 3,300.

These works were set in hand, about June 1878 — and although partially successful. i.e. a certain quantity of fresh sea water was at that time received into the back water; it cannot be said, that they have proved remunerative.—

ii. Opening bar and constructing Temporary groyne at Cuddalore Estimate Rs. 2,550.— The bar has been opened and and has kept open satisfactorily — without the aid of the proposed groyne, the construction of which was stopped by the Executive Engineer, the balance of the estimate will be worked out during 1879-80 if necessary.

iii Excavating Puliangal Drainage Channel and building a Bridge over it — Estimate Rs. 1,985 — This work was completed in November 1878.

Provincial

Provincial.

Civil Buildings.

20. Construction of a Dead House at Vellore. Estimate Rs. 590. This work was originally commenced but as objections were raised to the site selected, its progress was stopped.

21. Bungalow and office for the Asst. Superintendent of Police at Tirukoilur. Estimate Rs. 7,730. All work to the Bungalow and offices was finished in the preceding year with the exception of roofing and flooring; these have been completed in the year under review, at a cost of Rs. 7812 and the buildings made over to the Police Department in the month of October 1878; they have ever since been occupied by the Assistant Superintendent and his office. A monthly rent of Rs. 30 is being paid for the Bungalow. Excess is due to the construction of a tunnel and gate not provided for in the Estimate.

22. Police Huts for one Head Constable

and 3 Constables at Pimalore - Estimate Rs. 1440 - This work was stopped in December 1878 under the restrictive orders. A Sum of Rupees 742 has been spent in laying out foundations to nearly the full depth and in collecting portion of the materials - It is necessary that this work should be proceeded with and finished without delay.-

23. Constructing a Police Station House at Pennathur - Estimate Rs. 890. The work was Completed in December 1878.

24. Constructing a 4th Class Police Station house at Kileagrove - Estimate Rs. 1067. 0.57 of Brick in Mortar done and materials collected - Walls have been raised 3 feet high.

25. Constructing a Police Station House at Muttathur - Estimate Rs. 1047. Brick in chunam, Honey Comb work, cornice work completed - Terrace work Completed with the exception of 3 courses of flat tiles and part of plastering - A revised estimate for this work is under preparation.-

Trivellore

26. Trivellore Taluq Cutcherry - Estimate Rupees 6160 - The cost of repairing this Building has been greatly enhanced by it being found necessary to add Retaining or Counterfort walls, to support the basement and foundation masonry and to rebuild a portion of the outer walls of the Building, which had subsequent to the drawing up of the Original Estimate shown signs of instability - arising from the subsidence of the Foundation, which was evidently due to the fact of the subsoil being undermined by the constant flow of the numerous Springs. Outer Trenches have been opened out to drain off this water, but there is a great difficulty experienced in carrying off this intercepted drainage, since the surrounding ground or the only drain that can be made use of, is at too high a level. The water now

runs off into a temporarily constructed well - and during the time the building was undergoing repair the water was pumped out of this well by cooly labor. but whether this pumping work is or can now be continued is very doubt. = ful .. The matter has been fully repre = sented to the Collector of the District.-

27- Constructing a moat & planting an aloe hedge round the compound of Lunatic Asylum - Estimate Rupees 1865- This work was left incomplete in March 1878 - It was resumed in the beginning of the official year 1878-79 with an allotment of Rupees 379 & completed satisfactorily -

28- Providing Sky light in the Stationery Room of the Stamp Office. Estimate Rs. 520 - This work was sanc = tioned in G. O. No. 3738 W. dated 28th May 1878 and completed satisfactorily. -

29- Converting Chesfak Workshops into offices of Public Works Department - Estimate Rs. 1,26,200 sanctioned in G. O. No. 546 W dated 21st February 1879 - The whole of the work as provided for in this revised estimate has been completed - with the exception of fitting up doors and windows and painting of wood work in the South west wing.

30- In addition to the above im = portant new works - 26 Minor new works have been completed. -

31- Five Minor works under this head were completed during the year.

Communication

Buckingham Canal.

32- The work was carried out in sections as follows.

i - Extension of Buckingham Canal from Vallur or Porto-Novo to Paramavoor. This section was undertaken, vide G. O. No. 3179 dated 7th August 1878, in the South Arcot District as a relief work. The approximate estimate amounts to ———— Rupees. 85,855

The expenditure against the

above Estimate in 1877-78 Rupees- 5555

— do — in 1878-79 ——— " — 13,005

Total expenditure ——— " — 18,560

In this section of 6½ miles long, the Executive Engineer Cuddalore Division reports, that 28 furlongs have been excavated to within 4·3 of Mean Sea level and that 3 furlongs of the west bank has been sloped down to within 2 feet of mean Sea level.

ii - Extension of Buckingham Canal from the Palar to Mercanum - An estimate amounting to Rs. 179,600 for this portion of the Canal was sanctioned in G.O. No. 3979 W. dt 11th October 1878- The expenditure during the year, Rs. 33,050. The work was commenced on the 28th July 1878, and stopped on the 2d January 1879- The length of this portion of the Canal is 20 5/8 miles; 3200 Rft. feet has been excavated an average depth of 8'.- 7337 Rft. feet —do- an average depth of 6' and 2376 Rft. feet -do— of 3'.-

iii - Deepening the Southern Canal from Palar to Adayar - An estimate amounting to Rs. 84,980 for deepening this portion of the canal was sanctioned in G. O. No. 968 dated 27th February 1878. The expenditure up to end of 1877-78 amounted to ——— Rupees - } 31,820

— do- in 1878-79 ——— " — 39,021

Total expenditure ——— " — 70,341

The work was commenced on the 27th August 1877 and stopped on the 2d January 1879 - 35 Miles of the Canal was deepened to 4½' below mean Sea level and widened to 20' at bottom.- This portion of the canal is now in good order, about 6 miles including the Palar river remains to be done.

iv - Junction Canal from Adayar to Coovum River - The estimate for this section has not been sanctioned by Govt, it amounts to Rs. 7,48,920

The expenditure up to 1877-78 Rs. 6,12,156

—— do ——— 1878-79 " - 47,324

Total expenditure ——— " - 6,59,480

This work was commenced in 1875-76 it was continued as a relief work during the past 2 years. It was opened to navigation in May 1877 - There is a small quantity of work still to be done, a revised estimate is being prepared.

ix - Extension of canal from Pennair to Kristna frontier. This work was ordered to be undertaken as a relief work in 1876 vide G.O. No 3060 of 15th November 1876.-

The estimate amounting to Rs 17,90,000 was submitted on the 20th July 1878.

The expenditure to the end of 1877-78 Rupees - 14,97,000

——do—— in 1878-79 -"- 2,89,098

Total expenditure —— "- 17,86,098-

The whole length of this portion of the Canal is 82 miles, 6 furlongs and 68 yards, the work was commenced in December 1876, and was opened for navigation in January 1878. All the masonry works and a small quantity of earth work and turfing remains to be done.

An expenditure of Rs 1,600 was incurred during the year - from Local Funds on the Branch Canal and Boat Basin in the 51st Mile of the Buckingham Canal on the estimate of Rupees 2,300 sanctioned in Revenue Boards Proceedings No 11,183 dated 2d Novr 1878. The work is completed, and the accounts will be finally adjusted in the current year.

General remarks regarding the traffic on the canal. The traffic on the canal for the year ending 31st December amounted to = 2,68,902 Tons

The ton mileage to = —— 91,62,295

Passengers Carried = —— 140,011

Fees collected = —— 52,282 Rs

33 - Constructing 2 Roads running parallel to the Buckingham canal at Chepauk. Estimate Rupees 5,341.

This work was carried out by Major Clarke R.E. when in charge of the

Buckingham Canal Project from Adyar to Coovum river. The cost of this work was originally charged to the Buckingham Canal work, but was since recovered and charged to Provincial. The estimate amounting to Rs 5,341 was sanctioned in G. O. No 205 M. dated 15th January 1879.

Misc: Public Improvements.

34. Widening and deepening Colary Nallah Estimate Rupees 5,200. Work completed satisfactorily.

35. An outlay of Rupees 2703 was incurred under this head on the works mentioned below.

Conservancy of the Coovum Rupees 2001

Strengthening the bund across the Cochrane's Canal near General Hospital Bridge Rupees — 752.-

36. Veyasarpady Project.-

This project was started as a Famine work - late in 1876 under the direct control of the Madras Municipality but it was subsequently handed over to this Department, and put under the charge of Mr Watson Assistant Engineer.

The object of the project was apparently to open out a channel, on the west side of the Cochrane Canal Bank and to utilize the earth excavated in forming a broad Em= =bankment which might eventually be converted into a Road.

The channel was projected to intercept the drainage from all the outlying ground, and to empty its contents into the Canal at one or two points where overfalls or weirs were proposed to be built.

This work was entirely suspended in February 1878 - with the exception of the construction of the 3 Vent Bridge fitted with Self acting

Shutters, which spans the new Channel and connects the Road way leading from Puduvoyal to Trivettore (about 6 miles from Madras, on the road leading to Cunore) with the old Trivettore Bridge over the Cochrane Canal.

The self acting Shutters have not as yet been tested, as there has been no heavy rain fall, during the latter part of the year 1878-79.

Local.

Civil Buildings.

37. Civil Dispensary at Palmanair. Estimate Rs. 11,560. This work was commenced but stopped immediately for want of funds.

38. School at Maamarguddi. Estimate Rs. 1600. The building has been completed and made over to the Local Funds Boards.

Improvements

39. Improvements to Hydes Choultry at Verudachellam. Estimate Rs. 1575. Improvements and repairs sanctioned have been carried out and the building is being occupied.

Communications

40. Road from Byreddipully to Venkatagherri Cottah. Estimate Rs. 29,400. The claims of the Contractor for the previous year were settled. The Hygul Bridge has been raised up to spring line.

41. Constructing a Bridge of 5 arches across the Chittur river. Estimate Rupees 32,640. This work finished up to foundation.

42. Protective works to the Bridge across the Ponniar at Cuddalore. Estimate Rs. 25,990. This Bridge of 21 elliptical arches of 45 feet span was built in 1859 at a cost of Rs. 56,463. By the extraordinary freshes

of 1874 the first four northern arches had serious cracks, and it was after great deliberation, finally decided by the late District Engineer, Major Mead, and approved by Govern^t, that the 12 northern arches should be protected, that is, the first 6 with new front and rear retaining walls, of brick in chunam and roughstone aprons; the remaining 6 with rough stone apron in front and rear. The former was finished by 1876-77 and the latter in 1877-78, but filling in cracks and crevices remained; these have been done this year and the protective works finally completed at a cost of Rs 20,506 Saving is aiming to use some old materials and to protection of brick flooring in front of some arches.

43. Bridge over the Manimuktanudi at Virudachellam. Estimate Rs. 55,700.
Expenditure — 52,583

This bridge of 10 segmental arches of 50 feet span which was commenced in 1874-75, has been fully completed this year. The work done during the year has been the finishing of the blocking courses and building parapets, finishing approaches and forming road-way. The bridge was opened for traffic about 12 months ago, and not a single failure has since been observed therein.

The progress of this large and important bridge was not very satisfactory up to the end of 1876-77, the entire superstructure being at that time raised to top of skew backs. It is observed that the progress in 1877-78 was most satisfactory — especially the successful and rapid completion of the arch work (which was commenced in April and finished by the middle of July 1877) under the supervision of N. Veeraraghava Pantulu Supervisor 2d Grade. It appears that the energy displayed by this Supervisor in the supervision of this

important part of the work, and the successful and economical arrangements made for pushing on the whole work by Sub Overseer P. Veeraiah Pillay (who had charge of the work from its foundation) as also the careful supervision and good work turned out by him, have already been very highly commended by Major Mead R.E. in his reports for 1877-78. The saving in the estimate has been due to reduction in the number of wells in foundation and in working rates.-

44- Road from Kallakurchi to Tumbarapuram - Estimate Rupees 24,350. During the year 7m and 6f miles have been fully gravelled, 6f and 11f, 5/6 and 1/3 respectively, in addition to the platforms of earth work for gravelled parts in mile 4. The road may, in fact, be said to have been fully gravelled and completed except a portion of mile 11 and some earth work in miles 7, 8 and 4.

45- Railway feeder road from Chilambaram to the Chilambaram Railway Station - Estimate Rupees 1196. This small piece of road has been completed with the exception of a little sand to be carted and spread, which has been delayed owing to the stoppage of work.

46- Road works undertaken by Civil Agency as Relief works.

i- Road from Marmalang bridge to Tirumalaiyur - Length 13½ miles. Estimate R[illegible] - Nil - Outlay Rupees 10,500. About 10 miles of this road have been formed — and metalled while the remaining portion has only been raised to formation level.

ii- Road from Saidapett to Puliyur - Length 2 miles - Outlay Rupees 2969. This work was fairly executed.

iii Road from Kunnattur to

Poonamallee - via Iraiyadu. Length 3 miles. Outlay Rupees 3145.

iv. Road from Thandalam to Kuam - Estimate Rupees 40,000.

v. Road from Vandalore to Wallajabad. Estimate Rupees - 27,610.

vi. Road from Selinghpat to Vallipuram - Estimate Rs 22,350.

Outlay _____ " - 11237.

Nos iv, v and vi have only been partially carried out but whether further funds will, for some time to come, be found forthcoming, is a very doubtful matter.

Head

Civil Buildings

47. A Chemical Laboratory Government Farm at Saidapett. Estimate Rs 5,450. Outlay Rs 5,449 - This building was satisfactorily carried out by Contract.

Iris: Public Improvements.

Port Funds.

48. Pier in the Vellar river (or wharf) at Porto-Novo - Estimate Rupees 5290. This work, which was commenced in the preceeding year, was completed in November 1878 and the final payment made in March 1879 - The estimate has been exceeded by Rs 100 under the authority of the District Engineer, as some of the piles had to be sunk deeper.

Guaranteed Railway Company Fund

49. The following works were completed under this head, at the cost set under each. These works were sanctioned in G.O. No 2,227 W dated 21st May 1878 and funds provided by the Railway Company

i. Constructing quarters for a Jailor of Her Majesty's Penitentiary.

Estimate Rupees 6,408

Outlay _____ " — 5253.

iii. Constructing quarters for a Deputy Jailor.

Estimate Rupees 3152

Outlay ——— " ——— 3591.

iii. Door fencing and Supplying water to the above Buildings.

Estimate Rupees 720.

Outlay ——— " ——— 480.

Repairs

Imperial

Military

50. General works have been carried out in connection with the Royal Artillery Barracks, such as the following.

Bomb Proof Barracks. Estimate Rs 2335. Better Ventilation in the Roofing effected.

Married Quarters eight in number Estimate Rs 770. General repairs carried out.

South Barracks Spanish Quarters. Estimate Rs 740. General repairs carried out.

South Barracks. Estimate Rs 3,200. General repairs carried out.

In the Cantonment of Poonamallee Canteen. Estimate Rs 800. General repairs carried out.

Garrison Hospital Saint Thomas Mount. Estimate Rs 2380. The restoration of one Verandah and general repairs throughout the building.

51. The principal repair works exceeding Rs 1000 in amount are as follows.

	Rs
Repg. the roof of Native Officers Serjeants Bungalow of 30th Regiment N.I.	2814
Regravelling road of the 10th Regiment N. I. Perambore	2020
Repairing roof of the Barracks of the Body guard	1239
Repairing and Whitewashing Body Guards Lines	1183
Repg two groups of the Incorporating Mills, Gunpowder Factory	502
Replastering Chimney of Incorporating Mills Gun Powder Factory	110

Repg. roof of the office and Retail Store Godowns of the Commissariat Department - 2,158

Repg. building occupied by the office of Surgeon General B. M. F. — 1,886

Repg. building of the office of the Adjutant General, Fort St. George - 2,800

Repg. the office building of Inspector General of Ordnance and Magazine, Fort — 1,318

Making annual repairs to Fort Roads — 1,544

Repairing road along the East face of the Fortress — 1,000

Annual repairs to roads in the esplanade — 5,000

Repairing quarters of the Governor's band in Saint George's and Wallajah Lunette Fort — 2,200

Repairing the fortification wall of Fort Saint George — 4,536

52. One hundred and forty Six different repairs have been done at a cost of Rupees 37,701.-

This includes Rs. 8,872 for House-rent and compensation, Rupees 6,056

Spent on Cantonment roads, Rupees 6,479

expended by Barrack Master on petty repairs and Rs. 1,200 paid to the Municipality for the maintenance of the main Sewer.

Salt Dept.

53. Under the repairs Salt — the repairs of the Shemlakam Causeway Bridge near Merkanam Estimate Rupees 3485. was completed in March 1879 at an expenditure of Rupees 3,254.

Postal

54. The repair of the Post office at Tindivanam Estimate Rs. 70. was completed at a total cost of Rs. 74.-

Provincial.

Civil Buildings.

55 From the grant of Rs. 4,477 under this head Rs. 4052 have been laid out by this Department on the repair of 9 Buildings viz: 1 District Jail, 1 Huzur or District Cutcherry, 1 Taluq Cutcherry, 2 Subsidiary Jails, 1 Sea Custom House, 1 Government

House or Residency, 1 Public Works Office and 1 Court House... A sum of Rs. 481 was also advanced to the Police Dept., by which 53 Police Buildings have been repaired during the year at a cost of Rs. 481. Of these 12 Works appertain to the Tindivanam Division with an outlay of Rs. 69. The repairs to the District Jail, commenced on emergency in October 1877, have been completed during the year at a total outlay of Rs. 1530 that is including Rupees 492 spent in 1877-78. Some repairs to the Government House, occupied by the Collector, have also been commenced on emergency and almost carried out this year; Rs. 1664 have been spent, but there is still Rs. 272 remaining to be paid for this work. The sanctioned grant of Rs. 1500 and of Estimate Rs. 1630 have been exceeded in this case; the excess over the former is due partly to alterations of the Overseer's orders and that over the latter partly to additional work ordered by the late District Engineer, and partly to inadequacy of the rate in the original estimate. Extensive repairs still remain to be done to this building, for which an estimate will be prepared at once.

56. The principal repair works exceeding Rs. 1000 in amount are as follow.

Constructing drains & altering fencing at the Government House ——— 1167

Repg. the Office of Chief Secretary to Govt., Fort Saint George ——— 2578

Thorough repairs to the Black Tower Church ——— 1526

Repg. Pavilion in the Lying in Hospital ——— 1150

-do- Vepery Female Hospital ——— 2767

-do- the Verandah roof of the Master Attendant's Office ——— 1079

Communications

57. An outlay of Rs. 13,495 was incurred under this head, principally in maintaining the roads and bridges in the Division, as shewn below.

Annual repairs to roads leading from the fort towards Mount and Poonamallee ——— Rupees 9,058

Repairs to roads over Government bridges & within Government Compounds ——— 4,437

Local.

Communications.

Chittur Division.

58. The roads were all kept in good order by famine labor during the year. No expenditure was incurred under the head of Local funds.

Vellore Division

59. The repairs to some of the roads were partly carried out from Famine Funds and stopped in the month of November 1878. In the latter part of the official year some repairs were done to some of the roads from Local Funds.

Cuddalore Division

60. The roads have been maintained at a cost of Rs. 5,055; that is 382 miles in the Virudachellam circle at a cost of Rs. 3,2510, and the remainder in the two Talugs of the Cuddalore circle in the Division. The roads cannot, on the whole, be said to be in very fair order, as the prescribed maintenance grants for the same have not been fully utilized thereon during this and the preceeding year. From the middle of February to July 1878 very little work was done on the roads on account of the famine rules, which required the employment of only coolies delegated by Civil Officers, who were unable to send any accordingly; again under the restrictive orders of November last the road repairs were, for another 2 months, altogether suspended, the road establishment being dispensed with at the most important time in the year.

Tindivanam Division.

61. All roads in this Division are

in fair order. The most important are Trunk No 8 and the Salem frontier road from Merkanam to Samulpatti. the latter especially should have its maintenance grant increased as the average rate of Rs 118, a mile is not sufficient to meet the heavy gravel charges which must be undertaken yearly to repair the wear and tear consequent on the heavy traffic which passes over it. All the roads suffered more or less on stoppage of Establishment for the two months while the Budget was being revised, and when works were resumed, the best season for repair (the rainy weather) had passed. The want of water close by put a stop to the gravel being all spread and ordinary repairs to keep the roads open to traffic could only be attended to.

The avenues require looking after and planting out gaps where trees have been removed or blown down.

The Thembakam bridge has been finished and traffic has again been resumed over the Causeway. No Department however seems to have charge of this road and one tunnel in particular has a portion of the arch fallen, leaving a large hole in the middle of the road which is dangerous for carts and passers by.

Some difficulty was experienced to collect sufficient coolies for the road establishment and in those sections about Gingee, on Salem Frontier Road, for a long time no men could be got. Whole villages hereabout have suffered very much from fever and those who had enough strength left, preferred cultivation where they got higher rates of wages.

62. The condition of most of the

roads in this Division may be regarded, as satisfactory - reflecting credit on the Sub Divisional Officers, but the unsatisfactory state of the Northern Trunk road, passing by the Red Hills Tank, towards Nellore is a sad exception.

Unfortunately, when an effort was about to have been made to remedy matters late in the year 1878, the work had to be stopped although of so great importance. Steps are now being taken to bring up this road way to the general high standard of the other roads.

Rates.

63. In the early part of the year the rates have been exclusively Famine rates - as fixed by order of Government and varied according to the price of grain - Full tasks have not been exacted and in latter part of the year the rates have become normal.

The rates for labor and materials are rising in the parts traversed by the Railway, especially in the Cuddalore Salem, and in those parts where Skilled labor Vizg is scarce.

There has been no great deviation in the matter of rates during the past year. The normal rates have been, in almost every case, adhered to.-

The rates paid in 1878-79 are generally about 25 percent less than those paid in 1877-78 and at the end of the year have fallen to the normal rates of previous years.

Work shops

64. There are no Work shops of any importance in the Circle.

Season

Chittur Division

65- The year was a very favorable one and also there were good showers of rain during the year.

Vellore Division

The state of season has been very favorable from July 1878- The rainfall for the year was 46·125 inches the average being 40·661 inches for the last three years. There were freshes in the Palar river from August to Decr 1878. All the tanks fed by the river received a full supply of water.

Cuddalore Division.

The year has been, on the whole, much more favorable than the preceeding 3 years, although there has not been so much rain, and the freshes in the rivers have not been so heavy and continuous as in 1877; the season

has not been on the whole a bad one for general produce, although there were isolated failures of rain and crops; still, prices cannot be said to have attained the normal state.

I. The average rainfall during the year has been 35·92 inches, against 45·76, 23·94, 33·19 and 46·46 in the preceeding 4 years.. Water passed over the Sirruvandipuram (the lowest of the 3 Godddilum annicuts) Sirukoilur, Shatiatope and Virur = dachellam annicuts for 126, 155, 164 and 132 days, respectively in the year 1878, against 116, 131, 122 and 121 days in the preceeding year and 34, 41, 71 and 43 days in 1876; the average of the 3 years preceeding 1876 being 160, 125, 181 and 137 respectively.

ii. Public health has not been very satisfactory. In several parts of the Division fever has been

prevailing and still continues causing loss in life. Forage for Cattle does not appear to be wanting.

Tindivanam Division

During the early part of 1878-79 from May to August little rain fell in the Tirunalay Taluq. The north east monsoon commenced in September and there were good showers up to middle of November. Some parts of the Taluq had a very deficient fall, except the northern half; the other portions suffered considerably. Many tanks which were dependent on local rain have been dry and the cultivation under them either lost or the ryots had not sufficient confidence even to prepare the soil. The Punjah crop has realized a better out-turn but it was below the average.

From the 1st April 1878 to 31st March 1879, the number of rainy days in the Villapuram Taluq was 47 and the registered fall was 34·09 or on an average 0·73 inches per day. The heaviest fall during this period was ascertained to be 0·42 inch in an hour; no rain fell in April; in May ·60 inch in two days was ganged. The rains of any consequence fell in June and subsequent months. Floods happened occasionally in the Pennar and almost all the Tanks dependent for a supply from this river received a fair share of water; the punjah generally arrived at maturity with little blight and gave a fair crop. The punjah cultivation did not come up to the expected yield and was below the average in the Eastern portion of the Taluq. That part to the west of the railway the season has not been favorable and in some instances the wet crops were entirely lost for want of sufficient rain and the punjah suffered from rain during the harvest time.

The principal rivers in the Tindivanam Taluq, the Gingee and Thandigar brought down a fair supply throughout the year, and the Channels and tanks received from it sufficient water for cultivation purposes.

The total rain fall in the Taluq amounted to 37·62 inches, the heaviest fall happening in the month of November 1878 when 3·30 inches fell on the 25th.

The rainfall appears to be greater in some portion of the Taluq than in others, and little fell for the first four months, and not until September did the tanks begin to get a supply. Along the Sea board a deficiency occurred and some villages near Merkanum are reported to have entirely lost their crops from scarcity of water.. Towards the latter end of the year some showers were experienced generally over the country and those few fields which were ready for cutting were damaged. The dry crops have not been so productive as anticipated and the unseasonable rains are the chief cause of this.

The condition of the people has greatly improved since last year, and Famine works carried out by the Revenue Officials as well as Relief Camps were done away with after December 1878 as the price of food and plenty of work induced the people to return to their villages.. The works

in the Division were classed as "Famine" up to the months of May, after which the Season improving and prospects of cultivation looking better, the execution was conducted in the usual Departmental method. Food grains have much fallen in price towards the end of the year and the working class have every where been provided with sufficient for their support.. Fever has been very prevalent. In the Division west of the Railway which is rocky and in places jungle, whole villages at a time have been prostrated with this epidemic and many cases have proved fatal.. Gingee appears to be the hot bed of fever and still keeps up its reputation for being a very unhealthy spot.. Very few cases of cholera, I believe, have happened. Great difficulty was experienced towards the close of the

year to get coolies for even road repair. Sickness, and also the harvest which gave laborers higher wages took away those of them who were able to do manual work, and the Railways under execution in the Villupuram Taluq held out better employment by giving higher rates.

Chingleput Division

No unusual severe Storm has occurred during the past year, so that none of the larger Reservoirs have suffered in any way. The failure of the North east monsoon has affected the Southern Taluqs of this District more particularly, and this very coincidence calls for greater efforts to be made to feed the larger tanks in the Taluqs of Madrantikam and Chingleput, through which the river Palar and other minor Streams flow.--

Buckingham Canal.

The season was very favorable for work.

Presidency Division.

No remarks.

The usual enclosure, Statement Form E is herewith forwarded.

Chepauk
14th June 1879

Major &c.
Superintending Engineer
3d Circle.

1879.

From the Supt. Engrs Office

№ 3515

dated 14th } June/79.
Recd

21874
20-8-79

Encl.

Administration Report
Roads & Buildings
for the year 1878-79.

Complete

No. 9 W

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.

To The Acting Under Secretary to Government,
Public Works Department,
Buildings and Roads.

MADRAS, 15th May 1879.

Memorandum.

The Superintendent Madras Harbour Works has the honor to forward the Administration Report on the Madras Harbour Works for the year 1878-79, called for in the Memorandum № 1809 dated 13th Instant, from the Acting Under Secretary to Government.

F. W. Hurrowood. In. Civil Engr.
Superintendent
M. H. Works

Buildings and Roads

From
The Superintendent
Madras Harbour Works

No 9W
Dated 15th May 1879

No of Enclosures

21 P1 H
20-8-79

Administration Report

Submits for 1878-79

Madras Harbour Works
Administration Report

Between April 1st 1878 and March 31st 1879 the amount of work done in constructing the Madras Harbour was as follows.

North Pier Works

Very little block-setting was done in April and May '78 as the concrete blocks were hardly sufficiently old for placing in the superstructure.- From Umlachoor on the Madras Railway and from the neighbourhood 1,22,188 tons of laterite were sent to Madras in the year.- From the Harbour Works quarries at the 12th and 15th mile of the South Indian Railway 95,641 tons of stone were sent to Madras for the works. The total quantity received during the year from all sources being 2,17,829 tons.

In the Rubble base of the North Pier 1,00,914 tons of material were deposited by the Screw Hopper Barges and by other means.- On the rubble base 1400 concrete blocks were successfully set advancing the work by a length of 832 lineal feet, and bringing the end of the pier into 6 fathom water.

South Pier Works

At the South pier there were 68,723 tons of

of stone deposited in the rubble base, and
1020 Concrete blocks set in the superstructure,
advancing the work by 692 lineal feet.
At the South pier a new blockmaking
platform was made along the beach, and
two new cranes erected over it for moving
and for making the blocks. There were 2573
Concrete blocks made during the year at the
North and South pier platforms.
The total amount of material deposited in
the sea for forming the two piers during 1878-
79 has been 2, 30, 137 tons inclusive of
Concrete blocks. The total amount of pier
built (summing up both piers) has been
1524 lineal feet.
The works were interrupted greatly by bad
weather in November and December 1878,
by breaking down of the Titan Cranes in
January and March 1879 and by great
delay in the receipt of Stores indented for
from England, notably diving dresses and
truck wheels of special manufacture.
The amount expended on the works during
1878-79 was Rs. 9,34,576. and the total expend-
-ed up to March 31st 1879 Rs. 26,12,822.
From January 12th to March 4th Mr. Parkes
the Engineer in Chief was present in Madras
and expressed himself hopeful that the
work would be finished in about 2 years.
or by the end of March 1881.

Madras Harbour Works
15th May 1879

F. H. Brown M.A. C.E.
Superintendent
M.H. Works

Administration Report
of the
Public Works Department
General & Buildings & Roads Branch
Madras Presidency
for the year 1878-79

The year's results may be summarised as follows. The Imperial grants amounted to Rs ~~6,78,627~~ 3867849 of which Rs ~~3,59,076~~ 359076 were provided from ordinary revenue, and Rs 215773 from Loan Funds. The grant from Ordinary Revenue was subdivided against Irrigation for which Rs 291346 were provided, and Rs 174216 spent; Military Services for which Rs 556448 were provided and Rs 549489 spent; and other services for which Rs 122179 were provided and Rs 100532 spent.

The grant from Loan Funds or for Capital Productive Public Works amounted to Rs 215773; it was, as usual, solely expended upon those large irrigation works which in the opinion of Govt give a reasonable promise of a return at least equal to the interest of the money laid out upon them, and upon which an expenditure of

£ 172734 against the total grant was incurred.

The Provincial grant amounted to £ 1238861 compared with an outlay of £ 1737464 the aggregate amount of the grants-in-aid from Local Funds being £ . And the amount placed at the disposal of the P. W. Dept. from Local and Special Funds, besides the grants-in-aid just mentioned, stood at the end of the year at £ 378954 against which has to be set an expenditure of £ 212823.

Among the changes that took place during the year were the following:-

Colonel Forde Chief Engr & Secy: to Govt. vacated his appointment in February 1879 and was succeeded temporarily by Col. Shaw Stewart R.E. the Consulting Engr for Railways, until the arrival of Colonel Sankey R.E. the permanent incumbent.

The re-organization of the Dept. which had been long in contemplation was given effect to. The principal changes introduced were the division of the ~~duty of supervising the Districts~~ ~~of the province~~ into 5 circles, each presided over by a Supg Engr. and the reduction in the number of Executive Divisions from 76 to 39 each to be held by an officer of the Engineer Grade. ~~These changes have been found absolutely necessary to secure efficiency and economy in the Dept.~~

Fair progress was made with the compilation of a revised P. W. Code for the guidance of the Dept. but the work is still far from completion.

The year 1878-79 was exceptional. The special arrangements in regard to Famine Works noticed in the Administration Report for 1877-78 were continued ~~during the year under review~~ in the Districts

of Chingleput, North Arcot, South Arcot, Coimbatore, Cuddapah, Nellore, Salem and Bellary - As the season improved relief operations were gradually discontinued until orders were issued for finally closing them at the end of Decr 1878. ~~The~~ With the cessation of work the famine Establts were also discontinued, ~~the~~ and superior officers whose services were obtained from other Provinces being retransferred and the temporary Establt locally entertained dispensed with. Owing to the unusual drain on the public resources in consequence of the large outlay caused by the famine, the Govt of India in Novr 1878 invited the cooperation of this Govt in devising such measures as might be found possible for the reduction of the ordinary expenditure of the country within the narrowest possible limits.

It thus became necessary to restrict the outlay on ordinary public works, to expenditure to which the Govt were absolutely committed or which could not be avoided without loss to Govt directly or indirectly or without causing damage to other works. With this view orders were issued to stop all expenditure pending the issue of a revised Budget based on a fixed limit to suit existing circumstances. This revised Budget was unavoidably delayed ~~until~~ for a few days beyond the close of the year until the 25th March. The consequence was that several payments for which provision had been made in the Budget had to be deferred until the next official year. All these circumstances combined to render the ordinary outlay of the year ~~which is~~ less than ~~what~~ it would otherwise have been.

During the pause thus occasioned in the execution of works, instructions were given

for the employment of the staff on the completion of investigations of projects which had been partly carried out, and in the preparation of plans and estimates generally-

The statements given in appendices A & B. show the final grants and outlay under the different funds and heads of classification-

In Appendix D. will be found the usual abstract exhibiting the works about to be perfected under their budget nomenclature, with the exact sums appropriated for and expended on each of them-

see last folio

~~1878-79.~~

~~Administration Report~~

~~Buildings and Roads Branch.~~

The order of review will be the same as that adopted in the Administration Report for 1877-78. Imperial Military

Bellary. The following additional accommodation was provided during the year for the European Infantry at this station. A double Latrine was added to ~~the new Hospital Barracks~~ ~~New Hospital buildings to~~ the additional barrack and band-room completed in 1876-77 and Quarters were also constructed for the family quarters the ~~[illegible]~~ provision of ~~this Detachment~~ was necessary on sanitary grounds. ~~The work executed consisted of laying~~ ~~out~~ ~~pucka~~ ~~stone slab drains in each backyard~~ ~~to receive the waste water from the outhouses~~ ~~and connecting them with the long drains in front~~ ~~rear of the family quarters~~. As stated in the report for 1877-78, the improvements connected with the supply of water to the town of Bellary have all been completed with the exception of the revetment to the Allipore tanks, a portion of which had to be rebuilt- No work was done during the year in consequence of the withdrawal of the appropriation originally made. With the exception above noted, the work is reported to be in good order. In addition to the above several minor

were carried out
improvements, and the usual repairs to Military
buildings were executed.

Presidency. — The purchase of the site for the
proposed Native Infantry Lines at Saidapett
was completed, and the sum of Rs 24,830,
paid subsequently to the Collector of Madras. This site was
subsequently abandoned on sanitary grounds
and another site for the purpose chosen at
Pallaveram. The improvement to the Gun-
powder Factory commenced in August 1877, were
continued during the year, the earthwork
being executed by Famine labor. The work
is since completed, and as the original Estimate
had been largely exceeded, a revised Estimate
had to be submitted. This revised Estimate
the Govt declined to sanction, as the ground
that the present mills appeared to be able
to make a sufficient supply of powder, and
that the work had been forwarded by Famine
labor beyond what was anticipated. The
works have accordingly been stopped.

The work of attaching Lightning
Conductors to the European and Artillery Ma-
gazines the Infantry and Artillery Magazine
in the Fort, commenced on an Estimate of Rs
1350 was completed during the year on a revised
Estimate of Rs 2330, which was found
necessary in consequence of the original Estimate

2

having been exceeded on account of the
enhanced price of copper.

The construction of the Napier Light house
and Chives batteries was commenced on pres-
gency under the authority conveyed in G O No
2044 W dated 6th May 1878. The earthwork was
carried out by famine labor, while the concrete
was done chiefly by the Sappers. The works were
satisfactorily completed with the exception of
2 platforms at Chives battery which will be
carried out during 1879-80.

Several Minor Works and repairs were executed
during the year.

Chingleput. — The Hospital double-storied-hos-
pital at Saonamallee, which was commenced in
June 1876 and vigorously proceeded with during
1877-78, was completed in the year under review
and handed over for use in March 1879. This
work, though carried out by Departmental
agency throughout, has been completed (Rs 98121)
considerably less than the original estimate figure
(Rs 102 000), which circumstance reflects credit
on the officers and subordinates who had charge
of the work.

The Hospital is intended to accommodate
90 patients.

At St Thomas' Mount, the Ordnance
Laboratory was fitted up with ammunition packs,
the work being carried out by contract agency.

~~the roof has been made of good teakwood~~
~~has been well finished off~~ The entire building has been thoroughly restored, all the door and window fittings being of copper. Lightning conductors have been attached to ~~the building~~ several Minor ~~Building undertakings~~ new works and improvements, ~~which it is not necessary to specify here, were~~ satisfactorily completed before April. ~~were carried out~~ soon

Bangalore. — The drainage of the Native Infantry Lines was completed with the exception of the levelling of the earthwork. A new filter has been added to the Ulsoor water works. Roof over ~~the~~ a cistern in the Bakery Square ~~Battery~~ has been put on. The new engine has been put together and is now working. Racks have been provided in the Ordnance Gunpowder Magazine. The Native Infantry and Volunteer Stop Markers Butts ~~&c~~ were rebuilt and handed over to the Military authorities during the year. Twelve Minor works were undertaken during the year. Ten were completed, and two stopped for want of funds. The penal repairs were executed, ~~during the year~~

Cossor. — ~~There were~~ Two original works were carried out during the year. Nine buildings were repaired at the Remount Depot at a cost of Rs 20.25.

Belgaum. — Two works were completed ~~during the year~~ and two others commenced but stopped at the end of December for want of funds. The

works completed are (1) the Waterloo bridge. ~~The~~ ~~Lady~~ connects the Wellington Barracks with the main road between Colaba and Cavour. It was in ruins for upwards of 20 years and was partially restored in 1877-78 and thoroughly completed and opened for traffic in 1878-79. (2) The Wellington Rifle Range. ~~The~~ With consists of two parallel Ranges one hundred yards apart. Each Range is provided with a Stop Butt 18 feet high 150 feet long and 6 feet wide at top; all the sides and tops being turfed. One Range has firing platforms at every 50 yards up to 1000; the other, the same, up to 900 yards. Two Bland Markers Butts have also been erected wholly underground at a distance of 10 feet in front of the targets. ~~Each platform is protected~~ ~~20 feet long, 9 feet wide and 6 inches thick~~ ~~bolted in Concrete~~

~~Some repair works were undertaken.~~ The Wellington Barracks were whitewashed, and kept in the usual state of repair, and the Lawrence Asylums at Lovedale were thoroughly restored.

Coonoor

Calicut. — The only work of any importance undertaken was that of asphalting the Verandahs and boarding the floors of the officers' quarters at Kost Hill. The asphalte floors have been completed. The wooden flooring has only been laid temporarily, and will be completed as soon as seasoned timber can be got. Other smaller works which need not be detailed, were undertaken.

The usual repairs to all the buildings at Wattahill, Calicut and Mylliapuram, and to the Sepoy lines at the encamping ground at Beypore were carried out.

Canara — Two works only were undertaken (1) Ceiling and ventilating the Quarter Guard Room at Mangalore, which was completed and (2) Flooring Verandah of Magazine and improvements to it Lightning Conductor, which was nearly completed. Fourteen buildings were repaired at ~~an average~~ total cost of Rs ~~[illegible]~~ 495.

Cannanore — The swimming bath of the European regiment was plastered with cement. Considerable difficulty was experienced with this work, owing to the strength of the springs below the floor of the bath. Other Minor Works and repairs, not needing special mention were also carried out.

Tellicherry — The following works were commenced and completed during the year. (1) Raising the floor and constructing compound wall round the contagious diseases ward of the European Detail Hospital. (2) Constructing a Latrine of sixteen seats for the men of the Royal Artillery. (3) Sinking two wells in the Lines of the Native Infantry (4) Recovering five blocks of temporary Barracks for the detachment of European Infantry

Imperial Other Services

Vellore — The salt road from the great Northern road near Bodilingampadu to the Salt-platform at Sada

has been formed. The masonry works remain to be completed. The northeast and west slopes of the Salt platform at Sunapuguntu have been revetted with stone. The Lines for the Salt Guard at Vujapajapatam and the road from Kavali to the Salt-platform at Tsimmallapenta were in progress during the year, but were stopped, the former under the restrictive orders, and the latter at the request of the Salt Commissioner, as it is in contemplation to abolish the Salt Station at Tsimmallapenta

Chingleput — The following Salt works were carried out during the year. (1) Opening the bar at Ennore. (2) Constructing Groynes at Ennore. These works were set in hand about June 1878, and although partially successful, that is, a certain quantity of fresh sea water was at the time received into the back water, it cannot be said that they have proved remunerative. The bar at Covelong has been opened and has kept open satisfactorily without the aid of the proposed Groynes the construction of which was consequently stopped.

South Arcot — The work of excavating the Salankal drainage channel and building a bridge over it in connection with the Salt-platforms at Merkanam which was in progress last year, was completed during the year under review at a cost of Rs 4033 as also the repairs of the Kanbankum Causeway at a cost of Rs 3254.

Salem — The Post office at Yercaud was completed

during the year slightly in excess of the Estimate.

~~Cost of Rs 1000~~.

Sanjore – The construction of a Third Class Post office at Cuthanoor was in progress on an Estimate of Rs 4370, and an appropriation of Rs 4000, but the work was stopped in December when Rs 867 had been spent and the foundations of basement completed. The work of cleaning the shallow portion of the Vedarniam Canal from Kudemairi to the Mangapuny reach was continued and completed during the year. The canal was in double kept in good order by a staff of ~~peons~~ The construction of huts for the Head Constable and fourteen Constables of the Salt Police at Adrampatam which was commenced in 1877-78 was continued during the year under review.

The Head Constable's hut and one block are completed. The roofing of the 2nd block is in progress.

This work which is now classified as Provincial will be referred in future reports in its proper place under that head.

Imperial – Miscellaneous –

Madras Harbour Works

Between April 1st 1878, and March 31st 1879, the amount of work done in constructing the Madras Harbour was as follows.

Very little block setting was done in April and May 1878, as the concrete blocks were hardly sufficiently old for placing on the superstructure. From Umbathoor on the Madras Railway and from the neighbourhood 122,188 tons of laterite were sent to Madras in the year. From the Harbour Works quarries at the 12th and 15th mile of the South Indian Railway 95,641 tons of stone were sent to Madras for the works. The total quantity received during the year from all sources being 217,829 tons.

North Pier

In the Rubble base of the North Pier 100,914 tons of material were deposited by the Screw stopper Barges and by other means. On the rubble base 1400 Concrete blocks were successfully set advancing the work by a length of 832 lineal feet, and bringing the end of the pier into 6 fathom water.

South Pier

At the South Pier there were 68,723 tons of stone deposited in the rubble base, and 1020 Concrete blocks, set in the superstructure, advancing the work by 692 lineal feet

At the South Pier a new block making platform was made along the beach, and two new cranes erected over it for moving and for making the blocks. There were 2573 Concrete

blocks made during the year at the North and South pier platforms.

The total amount of material deposited in the sea forming the two piers during 1878-79 has been 2,24,137 tons, and the number of cement blocks.

The total amount of pier built (summing up both piers) had been 1524 lineal feet.

The works were interrupted greatly by bad weather in November and December 1878, by breaking down of the Titan crane in January & March 1879, and by great delay in the receipt of stores indented for from England, notably during dressed and truck wheels of special manufacture.

The amount expended on the works during 1878-79 was Rs 9,34,576, and the total expended up to March 31st 1879 Rs 26,12,822.

From January 12th to March 7th Mr Parkes the Engineer in Chief was present in Madras, and expressed himself hopeful that the work would be finished in about 2 years, or by the end of March 1881.

The Harbour Works being now classed as Provincial Productive under the orders of the Govt of India, the year's operations on the work will (in future) be reviewed (in the proper place) under this head.

Provincial Civil Buildings

Vizagapatam. The improvements to the Collectors Cutcherry which were in progress last year, were completed.

Cocanada. The buildings comprising the additions to the Collectors cutcherry were raised one foot above basement and much of the woodwork has been prepared.

Bezwada. The improvements to the Head Assistant Collectors' cutcherry and the additions to the District Mpnsiffs' Court house were completed during the year.

Russelcondah. The purchase of the Special Agents Bungalow was completed, the money paid to Major Smith and the building taken charge of on the 6th May 1878. Plans for the Police at Chicacole were in progress and the reconstruction of the roof of the Police Hospital at Kimedy was completed.

Nellore. The Taluq cutcherries at Sulurpett and Venkatagiri were completed and the buildings handed over to the Revenue Department. One half of the Taluq Cutcherry at Kangeri has been completed and is occupied by the Tahsildar. The flooring of the other half, railing off the Treasury and pointing to the outhouses remain to be done. The subsidiary Jails at Kunduker and Podile were nearly completed.

Bellary. A contribution of Rs 2197 was paid by Govt to the Church Committee for furniture supplied to Trinity Church.

Kurnool. The Taluq Cutcherry at Koilkuntla. This work which was commenced years ago is still incomplete, although the very large amount of Rs 68,120. has been expended upon it. ~~Years of incompetent on the part of part of the officers and subordinates who had charge of the building during it construction have resulted in the large excess of the originally Estimated cost. The work is, however, very near completion.~~ The Police stations at Arlagudda and Doranala were completed. Ten buildings were repaired during the year at a total cost of Rs 1505

Cuddapah. The main building of the Taluq Cutcherry and subsidiary Jail at Madhanapalle was completed and handed over to the Revenue Department in May 1878. The outhouses have still to be completed. Fair progress was made during the year on the Taluq cutcherry and subsidiary Jail at Kadiri and the Police stations at Gavalcheravoo, Gudimand Thalla Produtur. — Eighteen repair works were undertaken, of which twelve were completed, the whole costing Rupees 2071.

Presidency — ~~General works necessary and kand at the~~ Presidency. An aloe hedge has been planted round the compound of the Lunatic Asylum, and a skylight provided in the Stationery room of the Stamp office. The work of converting the old Workshops at Chepak into offices for the Public Works Department, which commenced in 1876-77 was continued during the year. The whole of the work as provided for in the revised Estimate of Rs 1,26,200 sanctioned in G.O. No 546 W. dated 21st February 1879, has been completed with the exception of fitting up doors and windows and painting of woodwork in the South West wing. The offices now located in the new building, are those of the Examiner Public Works and Railway Accounts, Consulting Architect, Consulting Engineer for Railways, Supt Engineer Third Circle, Executive Engineers Presidency, and Buckingham Canals.

Of the works under the immediate supervision of the Consulting Architect, the New Lying-in-Hospital at Madras was in progress during the year. The whole of the five blocks and connecting corridors are above ground. One block is floored one and two others are ready for the flooring when the work is resumed.

among the smaller works executed may be mentioned a new Latrine for the Revenue Board Office constructed at a cost of Rs 2533.

Outlay of Rs 13495 was incurred in maintaining the roads and bridges during the year under review.

Chingleput — Protective works in connection with the Pnellore Saltingtuticherin — The cost of repairing the building has been greatly enhanced by its being found necessary to add retaining or counterfort walls to support the basement and foundation masonry, and to rebuild a portion of the outer walls of the building, which had subsequent to the drawing up of the original Estimate, shown signs of instability, arising from the subsidence of the foundation, evidently due to the foot of the pabsoil being undermined by the constant flow of the numerous springs. Cut trenches have been opened out to drain off the water, but great difficulty is experienced in carrying off this intercepted drainage, since the surrounding ground or the only drain that can be made use of is at too high a level. The water now issues off into a temporary constructed well, and during the time the building

out of the well by coolly labor, but whether this pumping work is or can now be continued is very doubtful. The matter is now under consideration in communication with the Revenue authorities.

South Arcot — The Bungalow and office for the Assistant Superintendent of Police at Tirukoilur have been completed and made over to the Police Department. Police huts for Constables were under construction at Tirunalore, Tennattur and Kileanore.

Salem — The Police huts attached to the Central Jail at Salem which were completed in 1877-78, were occupied by the Police during the year. The station house at Thathengarpetta has been completed, but portions of it will have to be redone on account of bad workmanship - the Police declined taking over the portion ~~bad workmanship - badly done. The portion~~ ~~will have to be redone by the Contractor or Caretaker.~~ The pyol shed &c for the Collectors Cutchery and the Police station house at Tirupalaiyam were finally completed and made over to the Revenue Department.

Coimbatore — The Bungalow for the Asst Collector at Erode commenced in 1877-78 was completed during the year at a cost slightly in excess of the estimate. The necessary outhouses were erected for the Inspectors quarters at Collegal, and repairs executed to the Taluq

Cutcherry at Bhowany - Several Minor works and repairs were carried out.

Nilgiri - Expenditure to the extent of Rs 63,227 was incurred during the year in connection with the new Govt house at Norwood Ootacamund.

Malabar - A room was added to the Taluq Cutcherry at Mangerry and the Police Station house at Kolatore completed - The following works were also carried out - Removing the roof of the out houses of the Sub jail at Ulipy - Laying the floor of the Sea Custom House, and ceiling the Record room attached to it - Improvements and additions to the quarters of the Supt of the Jail at Cannanore and the Police Station houses at Jeriole and Chalputty. Repairs upon many ~~of the~~ buildings executed. Canara Repairs to quarters at Ayngalore were completed.

Pychanopoly - The Police Station house at Sheringum was put in hand in anticipation of the estimate being sanctioned - Masonry work has been done to its full height.

Madura - The Spinkolum and Paliay Cutcherries were in progress during the year, both are very near completion - The improvements to the Master Attendants residence at Pamben were completed. A special officer (Major Tibart, R.E) was deputed by Govt to take charge of the Madura Palace Works, and during the time he held charge from the 9th February to 27th June 1878, a large quantity of work was executed. The iron ties were altered. The under pining of the Judge's Court was founded and brought to ground level, and the large chamber, West of the dome was restored.

Tanjore - No works worthy of notice were carried out. Ordinary repairs were executed.

Trichinopoly - The only works executed were some Police huts. Several buildings were repaired.

Provincial Communications.

Ganjam. Expenditure to the extent of Rs 3995 was incurred on the Canal from the Chilka Lake to the Port of Ganjam. The work is still incomplete.

Vizagapatam. No expenditure was incurred on the New Polnighy Haut as the work was suspended under the restrictive orders just at the time of the working season.

Residency. Two roads running parallel to the Buckingham Canal at Chepauk were constructed under the supervision of Major Clark R.E. when in charge of the Junction Canal from Adyar to the Coum river. The cost (Rs 534) of the roads was originally charged to the Buckingham Canal works but was since recovered and charged separately to the head "Provincial".

Salt Water Failure and Chinnatalpur. The Buckingham Canal. This work forming a Division by itself is in charge of a Special Executive Engineer who is now under the orders of the Superintending Engineer of the Circle. The

the orders of the Government of India the work has been classed as a Productive Public Work and is headed accordingly in the Public Works Accounts; the entire expenditure being charged to the head "Provincial" (A general estimate for the whole Project to include the Canal to Orlanda on the North to the limits of the Kistna District and on the south to Point Calimere in the Tanjore District. During the year the work was carried out in sections as fol. lows:-

i. Extension of Buckingham Canal from Vallur or Porto-Novo to Pazanavoor. This section was undertaken, vide G.O. no 2179 dated 7th August 1878, in the South Arcot District as a relief work. The approximate estimate amounts to ... Rs 85,853

The expenditure against the above estimate in 1877-78 ... 5565
——Do—— in 1878-79 ... 13,105
Total Expenditure ... 18,510

In this section of 6½ miles long, the Executive Engineer

10

Engineer Cuddalore Division reports, that 28 furlongs have been excavated to within 4·3 of mean sea level and that 3 furlongs of the west bank have been closed down to within 2 feet of mean sea level.

ii. Extension of Buckingham Canal from the Palar to Mercanum. An estimate amounting to Rs 179,600 for this portion of the Canal was sanctioned vide G.O. no 3979 dated 11th October 1878. The expenditure during the year (amounting to) Rs 33050. The work was commenced on the 28th July 1878 and stopped on the 2nd January 1879. The length of this portion of the Canal is 20⅝ miles; 3200 Rq. feet has been excavated on an average depth of 8'. 7337 Rq. feet do an average depths of 6' and 2376 Sq. feet do of 3'.

iii. Deepening the southern Canal from Palar to Adyar. An estimate amounting to Rs 84,980 for deepening this portion of the Canal was sanctioned vide G.O. no 962 dated

dated 27th February 1878. The expenditure up to end of 1877-78 amounted to £ 31.320
——do—— in 1878-79 —— " 39.021
Total Expenditure " 70.341

The work was commenced on the 27th Augt. 1877 and stopped on the 2nd January 1879. 35 miles of the Canal was deepened to 4½' below mean sea level and widened to 20' at bottom. This portion of the Canal is now in good order - about 5 miles including the Polar river remains to be done.

iv - Junction Canal from Adyar to Cooum River - The estimate for this section has not been sanctioned by Government; it amounts to —— £ 148.920
The expenditure up to 1877-78 £ 612.156
——do—— 1878-79 — " 47.324
Total Expenditure " 659.480

v. Deepening northern Canal from Madras Basin to Pulicat - An estimate for this work has not been sanctioned by Government - It amounts to £ 65.500
The expenditure incurred up to 1877-78 amounts to £ 31.167
——do—— in 1878-79 —— " 3.037
Total Expenditure " 34.204

vi - New Canal from Pulicat to Cuba. This work was undertaken under the authority of G.O. no 544 W dated 4th August 1877.
The expenditure up to 1877-78 —— £ 148.172
——do—— 1878-79 —— " 37.894
Total Expenditure " 186.066

Excavation has been completed and the Canal opened for navigation - An estimate amounting to £ 320.000 for this portion of the Canal is ready and will be incorporated with the estimates for other portions of the Canal under recent orders.

vii - Improving old Canal from Cuba to Krishnapatam - This work was undertaken under the authority of G.O. no 544 W dated

dated 4th August 1877.

Expenditure up to end of 1877-78 £7208

do in 1878-79 £3520

£10728

This section of the Canal was silted up very much and was for some time in the dry season of 1877 impassable. The worst places were cleared in 1877-78 and the Canal reopened to traffic. The work was continued in 1878-79 and great improvement made throughout the whole length of about 47 miles. The estimates are nearly ready for this section.

VIII. Extension of Canal from Krishna-patam to the Pennair. An estimate for this section was sanctioned vide G.O. No 151 of 21st January 1876 amounting to £274000

Expenditure up to 1877-78. £303413

do 1878-79 £60126

Total £363539

The work was commenced in 1875-76 and continued as a relief work during the past 2 years. It was opened to navigation in May 1877. There is a small quantity of work still to be done, a revised estimate is being prepared.

IX Extension of Canal from Pennair to Krishna frontier. This work was ordered to be undertaken as a relief work in 1876 vide G.O. No 3060 of 15th November 1876. The estimate amounting to £179000 was submitted on the 20th July 1878.

The expenditure to the end of 1877-78. £14900

do 1878-79 £289098

Total Expenditure £178098

The whole length of this portion of the Canal is 82 miles, 5 furlongs and 68 yards. The work was commenced in December 1876 and was opened for navigation in January 1878. All the masonry works and a small

small quantity of earthwork and tur-
-fing remain to be done.

~~An expenditure of £1,000~~
~~was incurred during the year from~~
~~Local Funds on the Branch Canal~~
~~and Boat Basin in the 5th mile of~~
~~the Buckingham Canal on the Estimate~~
~~of £2,200 sanctioned in Revenue Boards~~
~~Proceedings No 1483 dated 2nd Feb: 1878~~
~~The work is completed, and the accounts~~
~~will be finally adjusted in the current~~
~~year.~~

The traffic on the Canal for the year ending 31st December amounted to _____ = 268902 Tons
The ton mileage to _____ = 9162295
Passengers carried _____ = 140011
Fees collected _____ £2,282

Nilgiris - During the closing five months of 1877, the rainfall was unusually heavy, and the Famine having prevented grain from being supplied from Mayeure, to the Wynad and Cotacamund, grain was carted up to the Hills from Coimbatore. These combined occurrences greatly cut up the main road between Coonoor and Cotacamund, and an Estimate for £ ---- was sanctioned, for coating the whole of it properly with some 4 inches of blue granite metal. Two thirds of the work was carried out in 1878-79, the first third having been previously executed in 1877-78. It was intended that

Provincial

the road from Mettapollium to Kullar _____ should eventually be designed for a line of Railway ~~not~~, in addition to the ordinary wheel traffic, and the necessary work was being carried out with that view from Famine Funds, but after the stoppage of Famine works, it was decided by Govt to treat the line as a mere road, and the work is being continued as a Provincial undertaking.

Madura - Of the 30 miles of the New Railway Line, the whole are open for Carts &c with some

temporary deviations. ~~The Kistna and~~ ~~Pen[illegible] Line is [illegible] a bank~~ ~~[illegible] a mile of road, and beyond it, [illegible] again~~ ~~has been reduced to 6~~ One steam has been bridged, ~~also one metre full~~ and 31 First-class Drains, 101 Common Drains, and 4 pavements have been finished.

In the preceding summary of the chief works classed under communications, no mention has been made of the roads constructed from Famine funds. They will receive notice in a separate Administration Report, which will shortly issue.

The roads constructed from Local funds provided in the general Circle Budgets, will as on former occasions receive no special notice in this Administration Report.

Provincial Miscellaneous.

Godavery. — The Light house at Vakalapudi has been completed and the Light house has been in use for some months. Materials have been collected for the Superintendent's quarters and the work is now in progress.

Presidency. — The work of widening and deepening the Ottary Nullah for facilitating the drainage of waste land about Perambore and Vepsarapudy was completed satisfactorily. Outlay to the extent noted was incurred on the Conservancy of the Coum (Rs 2001), in strengthening the bund across the Cochrane's Canal near the General Hospital (Rs 752). ~~Outlay to the extent of Rs 3608 was incurred on~~ and on that which is now known as the Vepsarapudi Project (Rs 3608). This project was started as a Famine Work late in 1876

under the direct control of the Madras Municipality, but it was subsequently handed over to the Dept^t, and placed under the charge of Mr Waters Assistant Engineer. The object of the Project was ~~apparently~~ to open out a channel on the West side of the Cochrane's Canal bank and to utilize the earth excavated in forming a broad embankment which might eventually be converted into a road. The Channel was projected to intercept the drainage from all the out lying ground, and to empty its contents into the Canal at one or two points - where overfalls or weirs were proposed to be built. This work was entirely suspended in Feb^y/78, with the exception of the construction of the 3 vent bridge fitted with self-acting shutters, which spans the new channel and connects the roadway leading from Puduvoyal to Ipurtore (about 6 miles from Madras on the road

leading to Ennore) with the old Ipurtore Bridge over the Cochrane's Canal. The self-acting shutters have not as yet been tested, as there has been no heavy rainfall during the latter part of the year 1878-79.

Nilgiris. The work of restoring the Elk Hill Aqueduct at 10th ~~became~~ ~~its foundations being~~ ~~been~~ ~~found~~ necessary in consequence of the heavy rains at the close of 1877 ~~which caused enormous cracks in the solid earth on the south side of the highest portion of the Elk Hill Cutting, forcing up the road more than a yard high, and pushing in the foundations of the South pier of the Aqueduct, so as to crack it almost [illegible] up.~~ The Aqueduct was restored by rebuilding the upper portion of the cracked pier, by adding a third pier of brick in the form of a trussel with a wide base, and by extending the Aqueduct with a fourth span of 20

feet on its southern extremity to solid uninjured ground.

Malabar. A short groyne was thrown out at the Cochin Harbour to prevent encroachment at the Southern bank at the entrance of the river, and appears to have answered its purpose so far.

Special Civil Buildings.

Vizagapatam. Progress was made with the New Zillah Jail at Vizagapatam and with the alterations and additions to the Hill Jail at Sarvatipore.

Godavery. A commencement was made with the construction of the New Taluq School house at Veravasaram.

Kistna. The following works in connection with improvements to the Jail at Guntur were completed during the year, viz, Hospital ward for contagious diseases, Dissection and Surgery rooms, Hospital Cook room and Privy, New Solitary Cells, Ventilators to old Solitary Cells, Improvements to four of the Wards, General Privy, Shed for dry earth, Palisade and compound walls.

Nellore. The School house at Ongole was almost completed.

Kurnool. The work of improving the Zillah Jail was completed with the exception of the wire fencing.

Cuddapah. The Subsidiary Jail at Peelar was almost completed.

Presidency. A chemical Laboratory was added to the Govt. school of Agriculture at the Sydapet farm and the work satisfactorily completed by contract.

Trichinopoly. The following works were completed during the year.

Improvements to the Solitary Cells for female wards and to the Cells for European prisoners in the Central Jail.

Generally- The progress up to date on the New Jail at Palamcottah is as follows:-

(1) The main building is about half completed.

(2) Four male wards are raised to embankment level.

(3) Workshop shed completed except pointing.

(4). Boys ward and Store house finished.

Special - Miscellaneous -

Malabar - For the protection of the sea wall at Calicut three groynes were constructed on the north side of the sea wall between the Rocky Inlet and Beypore

Two other groynes were run out to protect the foreshore in front of the new Custom house. The works have answered so far the purpose in view. The Cruz Milagres Dam at Cochin has been widened at a cost of Rs 2219 and a tidal observatory erected at Beypore at a cost of Rs 1000

Canara. With a view to determine eventually with some degree of correctness the cost of permanently improving it, and in order to keep Govt informed from time to time of its actual state, the Harbour at Mangalore was twice surveyed during the year in accordance with GO. No. 629 W dated 7th Feby 1878.

Workshops- Dowlaishwaram:- The total expenditure during the year 1878-79 was ₹ 97,943; of which (1) ₹ 57,835, was for new works, and (2) ₹ 19,688 was for repairs; (3) the value of work done for private parties amounted to ₹ 3780 and (4) the expenditure on workshop stores and sundries amounted to ₹ 16,640. The charge for establishment was ₹ 14,463, being 17 per cent on the value of work turned out, not including stores and purchases. The recoveries by Bills during the year amounted to ₹ 49,100.

Bezwada. The operations of the Bezwada Workshops during the year were chiefly making punts, ballasts, boats, Lantarons, Pedagunjam sea lock gates, also executing usual maintenance repairs to Floating Plant.

Residency. Public Works Stores and Workshops- Up to 31st March 1878, all stores were held and maintained under three separate heads of service viz: "Imperial Roads & Buildings", "Irrigation" and "Provincial", but on 1st April

April 1878, they were ordered to be classed as "Provincial" from the 1st of April 1878 - This order has been carried out and has worked well. All stores being issued on payment, the complete system of store-keeping has also been much simplified under instructions from the Examiner Public Works Accounts.

There were changes in the charge of the Stores & Workshops during the year under review. Mr. Granger the General Superintendent having obtained two years Furlough to Europe, was relieved by Mr. G. on the 11th May 1878

D. Faulkner, an Executive Engineer Bengal P.W.D. (whose services were temporarily transferred to the Presidency in connection with the Famine) on the 11th May 1878. Mr. Faulkner continued in charge, until relieved by Lieut. Baddeley R.E. on the 6th January 1879, after completing a careful stock taking of "Provincial" and Workshop Stores, which was found to correspond with the Books.

~~All Public Works Stores being classed as~~ Provincial ~~Provincial," have been dealt with under this head of Service.~~

The year opened with stock in hand to the value of ₹ 288749 and the receipts from all services amounted to ₹ 14,262-8-8, making a total of ₹ 303,011-8-8. The issues amounted to ₹ 55,097-5-3, leaving a balance of stock in Store on the 31st March 1879 amounting in value to ₹ 247914-3-5 or ₹ 40,835 less than the opening balance.

Under the new organization of the Public Works Department, the P.W. Stores and Workshops have been placed under the immediate orders of the Chief Engineer, vide G.O. 21st March 1879 No: 857W. By this arrangement the work of the Store Deptt: has been greatly facilitated and much time and correspondence has been saved.

In view to affording relief to the Staff of the Executive Engineer, Presidency

the

the Government in G. O. No 4774 dated 19th February 1879, directed the transfer of the Lime Kilns to the charge of the General Superintendent, and the manufacture and issue of lime as any other material supplied by the Workshops. ~~The transfer~~ Up to the close of the year the transfer had not been effected ~~has been effected~~ pending the decision of a reference by the Supg Engr Third Circle.

The amount received from the Treasury for carrying on the operations of the Shops for the year 1878-79 amounted to Rs 171.000 and the value of Stores &c received from Public &c Departments to Rs 59.953, making a total of Rs 230.953, to cover which the ~~—~~ payments and adjustments to the extent of Rs 261.953 were made, being Rs 31.000 more than the advance received. The works carried out by the shops were as usual numerous and various.

18-8

Administration Report
General & Buildings & Roads
for
1878-79.

Appendix A.

Statement of outlay as compared with the Final grants, during the year 1878-79.

	Final grant	Outlay
Sprigation		
Imperial Productive		
Works	~~161882~~ 161,882	~~107868~~ 107,868
Establishment	46,360	128,640
Tools and Plant	8669	11,241
Fluctuations for suspense Balances.		83
Receipts on Capital Account	88	60,038
Total	216,778	192,784
Imperial Ordinary Capital		
Work	287,844	63,862
Establishments	112,906	29,872
Tools and Plant	9,669	1,961
Fluctuations for suspense Balances.	6900	5,787
State outlay on guaranteed Sprigation works	16	16
Receipts on Capital Account		
Total	411,944	98,087
Revenue		
Extensions and Improvements	22,856	21,629
Maintenance and Repairs	429,948	418,106
Establishment	221,695	242,722
Tools and Plant	51,795	35,154
Total	726,294	717,610
Ordinary Agricultural		
Original Works.	48,877	90,942
Repairs	809,977	553,832
Establishment	438,698	261,189
Tool and Plant	44,759	20,602
Profit and Loss		
Fluctuations for suspense. Balances.		
Total	1,776,211	926,565
Total Irrigation	3,129,222	1,934,946

Appendix B 26 & 27 91

Comparative Statement of Grants and Outlay for 1877-78 and 1878-79 arranged by Funds & Classes.

	1877-78 Grant	1877-78 Outlay	1878-79 Grant	1878-79 Outlay
Imperial Ordinary				
Military				
Original works	240,006	294,386	194,600	186,368
Repairs	265,747	288,893	200,772	193,965
Establishment	152,000	144,708	147,842	154,706
Tools & plant	16,644	14,184	13,734	16,471
Profit & Loss	"	"	"	"
Total	764,397	692,170	556,448	549,489
Fluctuations & Suspense balances				
Stock purchases & sales	"	"	"	"
Stock	25,000	845	"	"
Miscellaneous Advances	"	10,413	"	"
London Invoices	"	"	"	"
" Stores	"	"	"	"
	"	"	"	"
Total Expenditure in England	739,397	680,912	556,448	549,489
	7,000	66,237	"	"
Total Military	732,097	614,675	556,448	549,489
Other Services				
Original works	49,818	24,143	24,286	28,103
Repairs	19,690	8,985	16,765	12,900
Establishment	14,714	15,417	76,816	52,782
Tools & Plant	838	1,647	3,832	1,660
Profit & Loss	"	"	"	"
Total	85,000	50,192	119,697	95,255
Fluctuations in suspence balances.				
Stock purchases & Sales	"	903	"	"
Stock	"	16,910	2,482	"
Miscellaneous Advances	"	8	"	"
London Invoices	"	"	"	"
London Stores	"	12,362	"	1,712
	"	1,735	"	6,685
Total	85,000	18,892	122,179	100,652

Appendix B (contd:)

Comparative Statement of Grants and Outlay for 1877-78 and 1878-79 arranged by Funds & Classes. (contd:)

	1877-78 Grant	1877-78 Outlay	1878-79 Grant	1878-79 Outlay
Less Expenditure in England	"	"	"	"
Total Other Services	85000	18392	122179	1[illegible]
Total Military & Other Services	817097	638067	"	"
Reduction of Grant to meet expenditure in England	"	"	"	"
Net Grant & net Outlay in India for Military & Other Services	817097	638067	678627	[illegible]
Irrigation				
Imperial Productive				
Works	269360	178268	161882	[illegible]
Establishment	78086	109401	46360	[illegible]
Tools & Plant	21428	40163	8569	[illegible]
Fluctuations in Less pense Balances	"	8070	"	[illegible]
Total	368874	326892	215811	[illegible]
Less Receipts on Capital Account	"	788	38	[illegible]
Net	368874	326169	215773	[illegible]
Less Repaid from Provincial Grant	"	"	"	"
Less Deduction of Grant to meet Expenditure in England	628	44	"	"
Less deficit	"	"	"	"
Total Imperial Productive	368246	326146	215773	[illegible]
Imperial Ordinary				
Capital				
Works	86891	67969	287844	[illegible]
Establishment	62124	46228	112006	[illegible]
Tools & Plant	18874	32177	9569	[illegible]

Appendix B (contd)

Comparative Statement of Grants and Outlay for 1877-78 and 1878-79 arranged by funds & classes (contd)

	1877-78 Grant	1877-78 Outlay	1878-79 Grant	1878-79 Outlay
Profit & Loss	"	"	"	"
Fluctuations in Suspense Balances	4000	8565	5900	5787
State outlay on guaranteed Irrigation works				
Total	149703	119546		
Less Receipts on Capital Account	"	7740	15	15
Net	149703	111806	411944	98087
Less Reduction of grant to meet expenditure in England	"	"	"	"
Less Expenditure in England	"	"	"	"
Total Imperial Ordinary	149703	111806	411944	98087
Total Imperial Productive & Imperial Ordinary	517949	487951	627717	290871
Revenue				
Extensions & Improvements	22737	19903	22859	21529
Maintenance & Repairs	424068	380183	429948	418105
Establishment	246925	190176	221696	242722
Tools & Plant	60986	41821	51795	36164
Profit & Loss	"	"	"	"
Total	743706	682083	726294	717610
Less Reduction of Grant for Expenditure in England	"	"	"	"
Less Expenditure in England.	"	"	"	"
Total Revenue	743706	682083	726294	717610
Ordinary Agricultural				
Original works	22937	44696	481877	90942
Repairs	866020	211972	809977	553882
Establishment	951204	711091	488598	261189
Tools & Plant	20491	6751	44789	20602

Appendix B (contd:)

Comparative Statement of Grants & outlay for 1877-78 and 1878-79 arranged by Funds & Classes (contd:)

	1877-78 Grant	1877-78 Outlay	1878-79 Grant	1878-79 Outlay
Profit & Loss	"	40	"	"
Fluctuations in Suspense balances.	202	109		
Total	2067934	974659	1776211	"
Less Reduction of grant for expenditure in England	"	"	"	"
Less Expenditure in England	9000	9886		
Total Ordinary Agricultural	2068934	964828	1776211	
Total Imperial Ordinary	2952842	1668712	3592076	
Total Imperial Productive & Imperial Ordinary	3320689	1984867	3907864	
Total Imperial & Irrigation				
Provincial Ordinary				
Original works				
Civil Buildings	401212	481387	276824	
Communications	269419	83678	80576	
Mis: Pub: Improvement	6820	6720	26827	
Repmts to Imperial Productive Plant	"	"		
Total Original works	666451	671785	384227	
Repairs				
Civil Buildings	164032	143467	124382	
Communications	107446	106847	109626	
Miscellaneous Public Improvement	12288	8830	4050	
Total Repairs	273716	259144	238013	
Establishment	670148	278066	482765	
Tools & Plant	81571	99876	64267	
Profit & Loss	"	2676	"	
Total	1691839	2204497	1203252	

Appendix B (contd:)

Comparative statement of Grants & Outlay for 1877-78 and 1878-79 arranged by Funds & Classes (contd:)

	1877-78 Grant	1877-78 Outlay	1878-79 Grant	1878-79 Outlay
Fluctuations in Suspense balances				
Stock Purchases & Sales	"	6680	"	24682
Stock	28684	207510	31609	
Miscellaneous Advances	"	24369	"	60283
London Invoices	"	70228	"	
London stores	"	2808	"	
Total	1615573	2876626	1288861	1739464
Less Expenditure in England.	9600	"	"	"
Total Provincial Ordinary	1605973	2875626	1288861	1739464
Local & Special				
Original Works				
Civil Buildings	310548	184476	146908	114948
Irrigation	"	"	"	"
Communications	698376	362026	707575	297596
Miscellaneous Public Improvement	102289	80852	29444	28246
Total Original works	1106212	676864	877927	440785
Repairs				
Civil Buildings	65686	38288	36025	24270
Irrigation	"	"	"	"
Communications	1609779	590513	1925169	468686
Miscellaneous Public Improvement	130422	40090	99601	57999
Total Repairs	1696886	668841	2070795	1248866
Establishment	686811	292912	674567	402848
Tools & Plant	31768	86905	27480	89840
Profit & Loss.	"	"		"
Total Local	3290162	1869512	3617769	2178323

Grand Total, Imperial, Irrigation, Provincial & Local

Appendix C

Statement showing the expenditure on Public Works in 1878-79 from Imperial Funds as compared with the allotment for that year

Districts	Allotment Imperial	Allotment Irrigation	Allotment Total	Expenditure, 1878-79 Imperial	Expenditure, 1878-79 Irrigation	Expenditure, 1878-79 Total
Bangalore	64,334	"	64,334	62280	"	62280
Bellary	27,531	24705	52256	27001	12098	39099
Canara	229	44816	45045	45	40641	40686
Chingleput	69,130	54285	123415	62486	31994	94479
Coimbatore	843	206019	206862	851	12921	13772
Ganjam	2819	26351	29170	1605	25544	27149
Godavari	1913	297687	299600	1495	290395	291890
Kurnool	325	27173	27498	96	20932	21028
Kistna	332	182293	182625	628	168860	169488
Madura	3528	86814	90342	975	74648	75623
Malabar	25153	1746	26901	25866	2038	27904
Nellore	7154	88871	96025	7406	62441	69846
Nilgiri	31,114	"	31114	30933	"	30933
North Arcot	31,114	38950 51	36996 1	2397	16888	18285
Residency (including Cochin)	4910	277	150399	143067	271	143338
Salem	150122	296197	300620	8947	6126	15073
South Arcot	4423	93992	98477	42674	76638	79792
South Canara	4485	"	972	716	"	716
Tanjore	972	125255	134166	9440	139297	148737
Vizagapatam	8871	173825	182659	1921	180137	182058
Vizianagram	30314	85837	106221	18252	81769	100021
Tinnevelly	20384	6724	9628	3161	6184	9345
Trichinopoly	2904	"	"	"	"	"
Trichinopoly	"	"	1014	8662	"	8562
Small Tanks Balance of grant	950	64				
Buckingham Canal						
Total Grants & Expenditure by P.W.D.	435,422	2193884	2629306	417219	1246622	1663841
Total Outlay by Civil Officers	"	"	"	97	8923	9020
Total Grants & Expenditure	435,422	2193884	2629306	417316	1255545	1672861
Total Private contributions	"	"	"	"	"	"
Grand Total	435,422	2193884	2629306	417316	1255545	1672861

Appendix C (Contd)

Statement showing the Expenditure on Repairs &c
works in each District from Imperial Funds under the Budget

Districts	Military	Other Services	Imperial Ordinary	Irrigation Extraordinary	Irrigation Protective
Bangalore	24191	"			"
Bellary	10908	96			"
Cuddapah	"	45			"
Chingleput	38,213	"			"
Coimbatore	87	83			"
Ganjam	6	133			87,636
Godavari	"	1118			"
Kurnool	"	"			18970
Kistna	"	846			"
Madura	"	7			"
Malabar	8100	"			"
Nellore	"	7,886			"
Nilgiri	14,965	"			"
North Arcot	1264	179			"
Residency (excluding Con: Architect)	86,604	178			"
Salem	"	1040			"
South Arcot	"	941			"
South Canara	189	"			"
Tanjore	"	4433	16,467		6268
Tinnevelly	635	122	16,805		
Trichinopoly	6767	"			
Vizagapatam	454	492			"
Buckingham Canal	"	8662	"		
Total expenditure by P.W.D.	185,358	25,103	175,750	107,868	
Expenditure by Civil Officers	"	"	"		"
Total	185,358	25,103	175,750	107,868	

Appendix C (Contd)

Statement showing the Expenditure on Repairs
on each District from Imperial Funds under the Budget
Heads.

Districts	Military	Other Services	Irrigation	Total
Bangalore	37,701	388	"	38,089
Bellary	16,846	258	8476	24,678
Cuddapah	"	"	25,573	25,573
Chingleput	29,272	"	19,235	48,507
Coimbatore	637	44	6,640	6,321
Ganjam	459	1007	24,421	25,887
Godavari	266	111	178,699	179,076
Kurnool	"	96	16,547	16,643
Kistna	"	105	118,004	118,184
Madura	75	908	72,166	73,064
Malabar	"	471	2,038	19,804
Nellore	17,295	"	70	64,930
Nilgiri	"	650	"	16,878
North Arcot	16,228	"	12,860	13,314
Residency (excluding Con: Architect)	964	"		46,861
Salem	57,290	"		6,221
South Arcot	2,840	67	3,314	70,877
South Canara	"	3,313	67,564	627
Tanjore	496	31	"	128,287
Tinnevelly	"	6007	122,280	168,243
Trichinopoly	887	277	157,079	91,791
Vizagapatam	11,486	"	80,806	6,777
Buckingham Canal	2215	"	4,562	"
	"	"	"	
Total Expenditure by P.W.D.	193,955	12,803	963,014	1,169,772
Expenditure by Civil Officers	"	97	8,923	9,020
Grand Total	193,955	12,900	971,937	1,178,792

Appendix C (contd:)

Statement showing the expenditure on Public Works in 1878-79 from Provincial Funds as compared with the allotment for that year.

	Allotments for 1878-79 including private contributions	Expenditure 1878-79
Bangalore	842	[illegible]
Bellary	9732	6[illegible]
Cuddapah	6378	19[illegible]
Chingleput	43681	14[illegible]
Coimbatore	13931	122
Ganjam	17388	29[illegible]
Godavari	21968	6[illegible]
Kurnool	9097	16[illegible]
Kistna	1859	15[illegible]
Madura	16830	6[illegible]
Malabar	16952	6[illegible]
Nellore	8046	[illegible]
Nilgiris	116821	1[illegible]
North Arcot	10083	[illegible]
Presidency	182313	16[illegible]
Salem	10414	[illegible]
South Arcot	9022	[illegible]
South Canara	5027	6[illegible]
Tanjore	6835	4[illegible]
Tinnevelly	6238	[illegible]
Trichinopoly	5332	[illegible]
Vizagapatam	9467	[illegible]
Unallotted Balances of Grant	"	"
Grant in aid to Local	"	[illegible]
Buckingham Canal	69984	[illegible]
Total	600240	5[illegible]
Expenditure by Civil Officers	"	21[illegible]
Refund from Provincial to Imperial Productive	50000	50000
Total Private Contributions	"	"
Grand Total	650240	6[illegible]

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Appendix C (contd:)

Statement showing the expenditure on Original Works in each District from Provincial Funds under the Budget Heads.

Districts	Civil Buildings	Communications	Miscellaneous Public Improvements	Total
	?	?	?	?
Bangalore	602	"	"	602
Bellary	3549	"	"	3549
Cuddapah	3510	"	"	3510
Chingleput	12486	"	"	12486
Coimbatore	10920	5616	"	16536
Ganjam	6426	3995	"	10421
Godavari	8617	63	"	8680
Kurnool	7168	"	"	7168
Kistna	697	"	"	697
Madura	2171	8183	"	10354
Malabar	6895	"	2057	8952
Nellore	4512	"	"	4512
Nilgiris	60187	12713	5226	78126
North Arcot	957	"	"	957
Presidency	118888	5047	1124	125059
Salem	2595	"	"	2595
South Arcot	3972	"	"	3972
South Canara	206	"	"	206
Tanjore	1701	"	"	1701
Tinnevelly	2106	"	"	2106
Trichinopoly	1082	"	"	1082
Vizagapatam	2273	581	114	2968
Buckingham Canal	"	93573	"	93573
			"	
Total Expenditure by P.W.D.	261465	129771	8626	399767
Expenditure by Civil Officers	9660	"	"	9660
Add Grant-in-aid to Local Fund Roads to Imperial Productives	"	"	"	"
	"	"	50000	50000
Grand Total	271026	129771	58621	459317

Appendix C (Contd:)

Statement showing the Expenditure on Public Works in each District from Provincial Funds under the Budget Head

Districts	Civil Buildings	Communications	Misc. Public Imprt.	
Bangalore				
Bellary	240	"	"	
Cuddapah	4838	"	"	
Chingleput	1592	"	"	
Combatore	6731	"	"	
Ganjam	2500	"	"	
Godavari	1878	"	"	
Kurnool	3765	10488	"	
Kistna	1506	"	163	
Madura	670	"	1852	
Malabar	1494	1912	"	
Nellore	4635	"	"	
Nilgiri	1792	"	"	
North Arcot	8409	30936	"	
Residency	5483	"	"	
Salem	27288	13494	2753	
South Canara	5233	"	"	
Tanjore	4777	"	"	
Tinnevelly	2117	"	"	
Trichinopoly	4774	"	"	
Vizagapatam	2455	"	"	
Buckingham Canal	3207	"	"	
	1784	5	"	
	"	498	"	
Total Expenditure by P. W. Dept.	97068	57303	4768	159184
Expenditure by Civil Officers	8809	2994	"	11803
Add grant. wi. aid to Local	"	"	"	"
Grand Total	105877	60297	4768	170942

The final grant is made up of the outlay up to 31st. Dec/79 plus subsequent modifications & Revised Budget for January February & March/79. The final grant is subject to revision on the final adjustment of Famine outlay.

Statement of Local & Special Funds Expenditure incurred by the Public Works Department during the year 1878-79.

Districts	Original Works				
	Civil Buildings	Irrigation	Communications Rd. Engg.		Total
1	2	3	4	5	6
Bellary	1492	"	4601	"	6093
Civil Officers	"	"	"	"	"
Cuddapah	565	"	3760	"	4325
Civil Officers	"	"	653	"	653.
Chingleput	6999	"	9236	"	16,201
Civil Officers	"	"	712	"	712.
Coimbatore	1549	"	293	49	1891.
Civil Officers	1477	"	157	"	1634
Cuddapah	1509	"	19552	2448	23,509
Civil Officers	66	"	"	"	66.
Godavari	10478	"	72870	2410	85,758
Civil Officers	67.	"	1350	"	1417
Kurnool	6147	"	1500	"	7647
Civil Officers	"	"	"	"	"
Kistna	1085	"	27760		28,824
Civil Officers	"	"	981	"	981
Madura	487	"	19016	"	19,503
Civil Officers	185	"	2375	142	2652
Malabar	67	"	18773	4963	18,808
Civil Officers	"	"	390	"	390
Nellore	6145	"	29013	478	35,636
Civil Officers	"	"	"	"	"
Nilgiris Bridleing Path Canal.	"	"	1600	"	1600
North Arcot	16	"	985	"	120
Civil Officers	10,886	"	1468	71	12,352
Presidency	23493	"	"	"	23,493
Civil Officers	2542	"	"	"	2542
Salem	2731	"	849	"	3080
Civil officers	"	"	618.	"	618
South Arcot	3122	"	91314	4203	16,469
Civil officers	"	"	"	"	"
South Canara	695	"	26024	181	26,850
Civil officers	469	"	217		686
Tanjore	760	"	20848	"	21,608
Civil Officers	3189	"	2016	9912	15,067
Tinnevelly	15239	"	3494	"	18,733
Civil Officers	1380	"		970	2290
Trichinopoly	4344	"	2841	798	7982
Civil Officers	38	"	2160		2198
Vizagapatam	8360	"	17319	1291	26,970
Civil Officers	163	"	1510	295	1968
Public Works Dept.	95297	"	283078	16,216	394,591
Civil Officers	19646	"	14,678	12,030	46,194
Total	114,943	"	297,696	28,246	440,785
Less Contributions from Municipal Funds	"	"	"	"	"
	114,943	"	297,696	28,246	440,785

Appendix D (contd:)

Statement of Local and Special Funds expenditure incurred by the Public Works Department during the year 1878-79 (Contd:)

Districts	Repairs				
	Civil Buildings	Irrigation	Communications	Misc. Public Imprt:	Total
1	2	3	4	5	6
Bellary	550	"	24189	1160	25899
Civil Officers	127	"	822	216	1165
Berdapah	235	"	60291	"	60526
Civil Officers	"	"	"	2462	2462
Chingleput	"	"	45579	483	46062
Civil Officers	120	"	122	1642	1884
Coimbatore	841	"	4176	"	5017
Civil Officers	727	"	6410	330	7467
Ganjam	368	"	69634	1688	71690
Civil Officers	32	"	1534	"	1566
Godavari	734	"	47958	16487	65179
Civil Officers	101	"	"	"	101
Kurnool	74	"	41699	"	41773
Civil Officers	"	"	"	1485	1485
Kistna	175	"	56696	9686	66382
Civil Officers	8	"	291	20	319
Madura	176	"	107972	3885	112033
Civil Officers	183	"	678	116	977
Malabar	1078	"	158083	1367	160528
Civil Officers	276	"	6983	"	7259
Nellore	133	"	69388	62	69583
Civil Officers	"	"	"	"	"
Nilgiris	348	"	21212	"	21560
North Arcot	108	"	7239	3582	10929
Civil Officers	686	"	280	156	1122
Residency	204	"	"	"	204
Salem	1139	"	1138	3451	5728
Civil Officers	2088	"	"	49	2137
South Arcot	1717	"	77606	"	79323
Civil Officers	"	"	200	238	438
South Canara	1205	"	45021	22	46248
Civil Officers	895	"	639	"	1534
Buckingham Canal	"	"	235		235

Appendix D. (Contd:)

Statement of Local and Special Funds expenditure incurred by the Public Works Department during the year 1878-79 (Contd:)

Districts	Repairs				
	Civil Buildings	Irrigation	Communications	Misc. Public Imprt:	Total
Tanjore	169	"	92684	790	93643
Civil Officers	3946	"	1831	"	5777
Tinnevelly	"	"	86377	1474	87851
Civil Officers	908	"	15910	3127	19945
Trichinopoly	830	"	67294	4686	72810
Civil Officers	211	"	511	"	722
Vizagapatam	1329	"	38218	"	39547
Civil Officers	164	"	9921	"	10085
Public Works Dept:	11403	"	1118954	41098	1171456
Civil Officers	12867	~~44622~~	44632	16901	74400
Total	24270	"	1168586	57999	1246855
Less sums received from Municipalities to Local	"	"	"	"	"
	24270	"	1168586	57999	1246855

Appendix D (Contd:)

Statement of Local & Special Funds expenditure incurred by the P. W. Dept. during the year 1878-79 (Contd:)

Districts	Establishment	Tools & Plant	Grand Total
Bangalore	"	"	
Bellary	7,247	725	
Civil Officers	"	"	
Canara	16,210	1621	
Civil Officers	"	"	
Chingleput	15,568	1567	
Civil Officers	2032	"	
Coimbatore	1726	172	
Civil Officers	1071	"	
Ganjam	23781	2878	
Civil Officers	1401	"	
Godavari	37,476	8747	
Civil Officers	"	"	
Kurnool	12,858	1285	
Civil Officers	"	"	
Kistna	28,690	2869	
Civil Officers	350	"	
Madura	82840	8284	
Civil Officers	448	"	
Malabar	44,822	4482	
Civil Officers	366	"	
Nellore	26,420	2642	
Civil Officers	2876	"	
Nilgiri	5889	589	
North Arcot	1,866	186	
Civil Officers	"	"	
Presidency	5,963	596	
Civil Officers	"	"	
Salem	1389	184	
Civil Officers	477	"	
South Arcot	28,963	2896	
Civil Officers	2154	"	
Southkanara	18,326	1832	
Civil Officers	"	"	
Tanjore	28,796	2879	
Civil Officers	"	"	
Tinnevelly	26,891	2639	
Civil Officers	240	261	

Appendix D (Contd:)

Statement of Local & Special Funds expenditure incurred by the P. W. Dept. during the year 1878-79 (Contd:)

Districts	Establishment	Tools & Plant	Grand Total
Trichinopoly	20,194	2019	103006
Civil Officers	"	"	2915
Vizagapatam	16626	1662	84,806
Civil Officers	"	"	12,053
Buckingham Canal	469	46	2340
Public Works Department	89,484	89,189	199,619
Civil Officers	10909	201	131,704
Total	402,843	39,340	2,128,823

Less grants-in-aid from Provincial to Local.

	402,843	39,340	2,128,823

Profit & Loss. " " "

Appendix E

Statement of Works referred to in the Buildings & Roads Administration Report for 1878-79.

Imperial

District	Work	Remarks	Estimate	Expenditure to end of March 1878	Expenditure for 1878-79	Expenditure from 1878-79
Bellary	Double latrine for the European Infantry Regiment.	Military	2765	1200	2560	2640
	Drainage of the married Qrs of the European Regt:	do	4810	-	4810	4764
	Supplying of water to the Cantonment	do	14628	13269	-	
Chingleput	Double storied Hospital at Ponamallee.	do	102000	83007	9050	9140
Bellary	Purchase of site for Native Infantry Lines at Cottonfield	do	-	20910	24030	24920
	Improvements to the Gunpowder Factory.	do	56010	41260	15097	15574
	Lightning Conductors to the European Infantry Barracks in the Fort.	do	2330	716	1614	598
	Sappers Battery.	do	16810	-	16982	16981
	Light House Qrs	do	17910	-	18128	18128
	Clerks do	do	9020	-	6041	6041
Bangalore	Drainage, Native Infantry Lines, Bangalore.	do	11000	7968	3292	3127
	Allsore Water works	do	11090	9681	7289	7213
	Roads near the Ordnance Gunpowder Magazine Fort Bangalore.	do	2660	-	2589	2652

Statement of works referred to in the Buildings & Roads Administration Report for 1878-79 (Concld)

Imperial (Concld:)

District	Work	Main Head	Estimate	Expenditure to end of March 1879	Appropriation for 1879-80	Estimate for 1880-81
Salem	Post Office at Yercaud.	Civil Buildings	775	-	775	1040
Tanjore	do with Post Master's Quarters & out houses at Combaconum	do	4370	-	870	867
Nellore	Police Lines for the Salt-guard at Dugarazapatam.	Civil Buildings	4200	1998	1000	1356
	Salt road from Great Northern road near Bokingalapaud.	do	5940	2906	1063	978
	Road from the great Northern Road near Kavali to the Salt platform at Tsunmalapenta.	do	23580	10003	3000	4909
Vizagapatam	Opening Ennore bar	do	6300	-	5520	5320
	Groyne at Ennore	do	3300	234	1177	1176
	Opening Bar & Canal: temporary groyne at Coveloug	do	2550	1866	-	20
South Arcot	Excavating Pulicangal drainage channel & building a bridge over it.	do	4985	3557	488	488
Tanjore	Improving the Vadamaneir Canal from Kattumaiar bridge to Velangannycaud	do	10000	3957	1319	1319
	1 Head & 14 Constables huts for the Salt Police, Atrampatanam	do	7950	4597	1760	1750
Bangalore	Dismounting the Nature Infantry Volunteer Light Markers & Rocketts.					40
	Butts &c at Bangalore	Military	2673	-	2570	
Silgiri	Timber bridge over the Valaroo Streams at Wellington.	do	9400	-	9400	9400
	Rifle Range do	do	2240	330	1910	1910
	Hospital guard room for					150
	do	do	4590	-	4590	
Malabar	Swimming bath, Cantonment					50
	Regiment at Cannanore.	do	1700	1567	1160	1160
	Existing Well, 25th Regt. Lines do	do	860	447	729	729
	Deepening Well, 25th Regt. N. I. Lines do	do	305	310	305	305
	Officers Quarters, Wattikkulam					40
	Cantonment	do	2700	-	1900	1900
	do at Mallisparam	do	900	-	900	900
	European Hospital at do	do	980	-	632	632
						40
Trichinopoly	Raising the floor of European detached Hospital.	do	2090	-	2090	2090
						100
	Compound wall around Contagious disease ward.	do	1100	-	1100	1100
	Latrine of 16 seats for Veterans of Royal Artillery.	do	5020	-	5020	5020
						50
	Sinking a well in the lines of 25th Regt. N. Infantry	do	700	106	700	700
	do in the lines of the 19th Regiment Native	do	870	222	870	870
						40

Appendix

Statement of works referred to in the Buildings & Roads Administration Report for 1878-79. Provincial

District	Work	Main head	Estimate	Expenditure to end of March 1878	Appropriation for 1878-79	Expenditure during 1878-79	
Ganjam	Purchasing the Special Assistant Agent's Bungalow at Russelkonda.	Civil Buildings	4282	-	4282	4282	4
	Reconstructing the roof of the Police Hospital at Kennedy.	do	1020	-	1020	1020	6
	Constructing Police huts at Chicacole.	do	2072	-	1050	1005	
Vizagapatam	Improvements to the Collector's Cutcherry at Vizagapatam	do	6739	5119	166	1620	
Godavari	Additions to the Collectors Cutcherry at Cocanada.	do	10700	-	6000	4348	
Kistna	Improvements to the Head Assistant Collector's Cutcherry at Bezwada.	do	1940	1672	445	389	
Nellore	Taking Cutcherry at Culumpett.	do	12830	12445	670	402	
	do at Venkatagiri	do	12950	11439	450	708	
	do at Kamigiri	do	29650	32474	2500	1705	
	Sub Jail at Kandukur	do	10000	8253	1000	659	

Appendix

Statement of works referred to in the Buildings & Roads Administration Report for 1878-79.

Provincial (contd.)

District	Work	Remarks	Estimate	Expenditure to end of March 1878	Expenditure for 1878-79	Unexpended balance
Nellore	Sub Jail at Rollie	Civil Buildings	9,700	9,293	407	
Cuddapah	Subsidiary Jail at Putlur	do	290	170	115	
	Taking Cutcherry and Subsidiary Jail at Masnapally.	do	29,888	28528	265	
	do do at Kadiri.	do	32,070	28743	1763	
	Converting the Bungalow at Gurralcherrive into a Police Station	do	1720	1252	469	
	Police Station house at Gundloor.	do	1780	62	650	
	do do at Nalla Rodatoor	do	900	-	470	
Kurnool	Taking Cutcherry at Kotakunilla	do	68,752	64,52[illegible]	4600	
	Collector's Cutcherry at Kurnool.	do	32862	29,352	3570	
	Record Racks for the new Collectors Cutchery at do	do	1050	-	210	
	Police Station House at Arlagudda.	do	430	343	87	
	do at Dorenal.	do	460	369	91	
Bellary	Trinity Church at Bellary	do	5000	-	2197	

Appendix

Statement of works referred to in the Buildings & Roads Administration Report for 1878-79.

Provincial (contd.)

District	Work	Remarks	Estimate	Expenditure to end of March 1878	Expenditure for 1878-79	Unexpended balance
Residency	Contg: a moat & planting an aloe hedge round the Compound of Lunatic Asylum.	Civil Buildings	1565	1486	379	378
	Sky light in the Stationery room of the Stamp Office	do	520	-	519	519
	Converting the Pekepauk Workshop Buildings into Offices for Public Works Deptt.	do	12,200	6,056	4,777	4,172
Chingleput	Taking Cutcherry at Chingleput	do	6,160	-	6,292	6,267
North Arcot	Bungalow & Office for the Asst. Inspr. of Police at Tinkoilut.	do	7,730	6507	1143	1224
	Police huts for 1 H.C. Constable & 3 Constables at Pennalore	do	1440	-	743	743
	Police Station house at Pennalore	do	890	882	-	8
	do do at Vellanore	do	1067	-	466	467
	do do at Vuttattur	do	1047	-	1047	1041
Salem	Police huts to the Central Jail at Salem.	do	1610	1,125	-	209
	Police Station House at Thathiangarpett	do	920	473	299	182
	Verandah &c.a for Collectr Cutchery, Salem	do	3440	2307	1133	1039

District	Work	Main Head	Estimate	Expenditure to 31st March 1878	Appropriation for 1878-79	Expenditure during 1878-79
Salem	Station House at Jevlagiri	Civil Buildings	785	145	640	615
Coimbatore	2 Quarters to the Asst Collector at Erode.	do	15,735	6,785	8,950	9,178
Nilgiris	Sport House at Norwood	do	26,660	17,390	6,320	1,218
	Teak wood shelves for P.W. Secretariat at Stone House.	do	1050	-	1050	1050
Malabar	Jail Superintendent's Qrs at Cannanore.	do	3100	2010	1,100	1,100
	Police Station House at Tanisseri	do	1760	825	560	560
	do at Coolpathy	do	1760	1545	593	593
	Rooms to the Taluq Cutcherry at Tellicherry for a Sub Registrar's Office.	do	1530	607	933	933
	Police Station House at Ellatoor	do	745	-	745	745
	do at Kolatoor	do	-	-	-	-
Trichinopoly	Police Station House at Srirangam	do	2000	-	935	935
Madura	Taluq Cutcherry at Periaculum	do	20836	20614	222	222
	do at Pulney	do	23306	22732	573	573
Trinevelly	Police hut at Malayathaparai	do	1490	600	890	890
	do at Sethaparamullur.	do	1260	-	1240	1240
	do at Sathunganallur	do	850	-	850	850

District	Work	Main Head	Estimate	Expenditure to 31st March 1878	Appropriation for 1878-79	Expenditure during 1878-79
Ganjam	Canal from Chilka Lake to Ganjam Port.	Communications	141870	135985	5370	3990
Vizagapatam	New Pottingby Haut	do	130400	65568	1893	2800
Presidency	2 Roads running parallel to the Buckingham Canal.	do	5341	-	-	5041
Chingleput	Extension of the Buckingham Canal.	do	2135991	155000	58607	58607
Nilgiris	Roads from Avalanche to Coonoor.	do	14478	4463	10015	10722
	Coonoor Haut - storm repairs	do	1450	-	1450	1450
Madura	New Pulney Haut	do	32000	24653	8900	8178

Appendix

Statement of works referred to in the Buildings & Roads Administration Report for 1878-79.

Provincial (Concld:)

District	Work	Main Head	Estimate	Expenditure up to 31st March 1878	Appropriation for 1878-79	Expenditure during 1878-79
Presidency	Widening & deepening Ootary Pullah.	Mis: Pub: Imp[ts].	5200	4633	423	423
	Conservancy of the Commr. Bund across the Cochrane Canal near General Hospital Bridge.	do	2000	-	2000	201
	Drainage of Roads between Nyasanpady & Cochrane Canal.	do	11170	16828	511	752
Nilgiris	Removing the land slip & restoring the Aqueduct at Elk Hill.	do	5000	972	3600	750
Malabar	Groyne at Cochin Harbour.	do	1200	-	5000	972
					1000	199

Appendix

Statement of Works referred to in the Buildings & Roads Administration Report for 1878-79.

Special.

District	Work	Main head	Estimate	Expenditure up to 31st March 1878	Appropriation for 1878-79	Expenditure during 1878-79
Vizagapatam	New Pillah Jail at Vizagapatam.	Civil Buildings	23300	2408	5000	4839
	Hill Jail at Parvatipore	do	12270	522	5000	919
Godavari	Taluq School house at Veravasaram.	do	4055	-	4055	967
Kistna	Jail at Gunnoor	do	37313	22903	5000	353
Nellore	Angls. Vernacular School at Ongole.	do	9200	4845	4355	2532
Chingleput	Laboratory at the Govt. Farm, Saidapett.	do	5450	-	5450	5349
Salem	Removing & renewing roof of the Darampury School room.	do	3475	2463	1002	1302
	School house & Latrine at Kistnagiri	do	4940	-	4740	1410
Trichinopoly	Improvements to Solitary Cells for female wards in the Central Jail.	do	1390	-	1080	92

Appendix

Statement of works referred to in the Buildings & Roads Administration Report for 1878-79. Special (concluded)

District	Work	Manner	Estimate	Expenditure to end of March 1878	Expenditure in 1878-79
Trichinopoly	Improvements to the Cells for European Prisoners, Central Jail	Civil Buildings	1750	-	1750
	Convey. dead wall into female wards Central Jail	do	710	-	710
Immediately	New Jail at Palamcotta	do	160000	160058	15000
Godavari	Light House at Vakalapudi	Mis: Pub. Impt:	6600	6305	150
	Quarters for the Supdt: at Vakalapudy Light House.	do	3410	-	3410
Malabar	3 groynes on the north side of the sea wall between the rocky islet & the Beach at Beypore	do	576	-	576
	2 do to prevent the foreshore in front of the new Custom House at Calicut	do	2160	-	-
	Widening the Cruz Mulapa Bdge	do	3260	-	3260
	Tidal observatory at Beypore	do	1000	-	1000

No. 2181 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 20th August 1879

Read the following:—

From

The Supg Engineer First Circle (A.C. No. 104 d/ 16th May 1879)
" do do (" " 1st May 1879)
" do Second " (" " 5th " ")
" do do " (" " 10th " ")
" do do " (" 656 " 13th " ")
" do do " (" " 14th " ")
" do do " (" " 17th " ")
" do Third " (" 3515 " 14th June ")
" do Fourth " (" 1098 " 25th April ")
" do do " (" 264 / 1124 " 28th " ")
" do Fifth " (" " 17th May ")
" do do " (" " 21st " ")
" do do " (" " 23d " ")
" do do " (" " 29th " ")
" Supt. Madras Harbour Works (" 94 " 15th " ")
" Consulting Architect to Government (" 50 " 25th April ")
" Genl Supt S.W. Stores & Workshops (" 715 " 23d " ")

1878-79

The above relate to the administration Reports, which has been sent to the Press

Lodge 8

Lodge

Lodge