

(1) Number of pages 118
(2) Date of repair 14-7-66
(3) Initials of the Referencer CV

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	3052	Press Misr
Dated	15-12-1870.	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
15th December 1870.*

Read the following papers :—

- No. 336. From the Superintending Engineer, 1st Division.
(Here enter No. 368, dated 5th May 1870.)
- No. 337. From do. do., 2nd Division.
(Here enter No. , dated 18th April 1870.)
- No. 338. From do. do., 3rd Division.
(Here enter No. , dated 15th April 1870.)
- No. 339. From do. do., 4th Division.
(Here enter No. 344, dated 23th April 1870.)
- No. 340. From do. do., 4th Division.
(Here enter No. 2,065, dated 17th August 1870.)
- No. 341. From do. do., 5th Division.
(Here enter No. 27, dated 25th April 1870.)
- No. 342. From do. do., 6th Division.
(Here enter No. , dated 27th April 1870.)
- No. 343. From do. do., 6th Division.
(Here enter No. 403, dated 20th August 1870.)
- No. 344. From do. do., 7th Division.
(Here enter No. 21, dated 25th April 1870.)
- No. 345. From do. do., 8th Division.
(Here enter No. , dated 9th April 1870.)
- No. 346. From the Special Executive Engineer, Wynaad.
(Here enter No. 324, dated 2nd May 1870.)
- No. 346-A. From the Secretary to the Board of Revenue.
(Here enter No. , dated 19th July 1870.)
- No. 346-B. From do. do.
(Here enter No. 748, dated 27th July 1870.)
- No. 346-c. From the Director of Public Instruction, Madras.
(Here enter No. 1,366, dated 5th August 1870.)

No. 347. ORDER THEREON, 15th December 1870, No. 3,052.

LOCAL FUNDS, No. 39.
Account.

ORDERED that the following letter
be sent :—

(Here enter No. 3,053, dated 15th December 1870.)

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,

Secretary to Government.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 15th December 1870.

No. 348.

No. 3,053.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

LOCAL FUNDS, No. 31.
Account.

SIR,—I am directed by the Right Honourable the Governor in Council to forward, for the information of the Government of India, the Annual Report of Local Funds expenditure on Public Works in this Presidency for the year 1869-70.

I have the honour to be,

Sir,

Your most obedient servant,

Colonel, R.E.,

Secretary to Government.

ANNUAL PROGRESS REPORT OF PUBLIC WORKS IN THE MADRAS PRESIDENCY UNDERTAKEN FROM LOCAL FUNDS DURING THE YEAR 1869-70.

The total Budget assignment from Local Funds for outlay on Public Works during the year 1869-70 was Rupees 27,04,420 distributed as follows :—

Heads of Services.	FOR EXPENDITURE BY		Total.
	Public Works Officers.	Officers of other Departments.	
	RS.	RS.	RS.
New Works	14,95,890	1,70,370	16,66,260
Repairs	5,66,350	1,31,440	6,97,790
Establishment	3,03,970	14,820	3,18,790
Tools and Plant	18,640	2,910	21,580
Total ...	23,84,850	3,19,570	27,04,420

2. The entire outlay under all heads of service was Rupees 26,44,762 classified as below :—

Heads of Services.	By Public Works Officers.	By other Departments.	Total.
	RS.	RS.	RS.
New Works	12,87,134	1,58,739	14,45,873
Repairs	6,93,373	1,94,471	8,87,844
Establishment	2,84,266	13,347	2,97,613
Tools and Plant	13,432	...	13,432
Total ...	20,78,205	3,66,557	26,44,762

3. The following Statement shows the expenditure incurred by Public Works Officers and by Officers of the Revenue and Educational Departments respectively.

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.

DISTRICT ROAD, ETC., FUNDS.

Districts.	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS				MISCELLANEOUS PUBLIC IMPROVEMENT			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godavery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Presidency...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Neilgherries.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	109	10,000	10,000	160	...	...	...	...	11,04,281	3,67,828	45,713	1,33,095	8,466	2,858	24,436	29,203

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS				MISCELLANEOUS PUBLIC IMPROVEMENT			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godavery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Presidency...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Neilgherries.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	11,22,747	6,70,955	70,149	1,62,298	82,323	1,80,982	2,63,305	5,408	...	...	...	...	13,425	23,08,287	...	...

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

DISTRICT ROAD, &c., FUNDS.

DISTRICT ROAD, ETC., FUNDS.																
Districts.	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS				MISCELLANEOUS PUBLIC IMPROVEMENT			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
	Canal Fund.															
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nilgherries...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, &c., FUNDS.				ESTABLISHMENT.										Grand Total.	Total Outlay from all Funds.		
	TOTAL				By Public Works Officers.			By Officers of the Revenue Department.			By Officers of the Educational Department.							
	By Public Works Officers.		By Officers of the Revenue Department.		Ten per cent. for Public Works Supervision.		Total.		Ten per cent. for Public Works Supervision.		Total.		Ten per cent. for Public Works Supervision.				Total.	
	New Works.	Repairs.	New Works.	Repairs.	Petty.	Ten per cent. for Public Works Supervision.	Total.	Petty.	Ten per cent. for Public Works Supervision.	Total.	Petty.	Ten per cent. for Public Works Supervision.	Total.					
Ganjam	...	...	...	...	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.			
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Godavery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Kistna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Nellore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Bellary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Presidency	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Chingleput	2,102	11,000	...	...	2,280	1,310	3,590	...	...	...	...	...	...	...	...			
North Arcot...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
South Arcot...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Trichinopoly...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Coimbatore...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Nilgherries...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Malabar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
South Canara.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Madura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Total...	2,102	11,000	...	...	2,280	1,310	3,590	...	...	...	...	...	...	16,692	...			

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

DISTRICT ROAD, ETC., FUNDS.

[illegible]

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

	DISTRICT ROAD, ETC., FUNDS.	ESTABLISHMENT.						Total Outlay from all Funds.
	TOTAL	By Public Works Officers,		By Officers of the Revenue Department.				
	New Works.	Repairs.	New Works.	Repairs.	Petty.	Ten per cent. for Supervision.	Total.	
Districts.								
Ganjam .. .	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Vizagapatam .. .	" "	" "	" "	" "	" "	" "	" "	" "
Godavery .. .	" "	" "	" "	" "	" "	" "	" "	" "
Kistna .. .	" "	" "	" "	" "	" "	" "	" "	" "
Nellore .. .	" "	" "	" "	" "	" "	" "	" "	" "
Cuddapah .. .	" "	" "	" "	" "	" "	" "	" "	" "
Kurnool .. .	" "	" "	" "	" "	" "	" "	" "	" "
Bellary .. .	" "	" "	" "	" "	" "	" "	" "	" "
Presidency .. .	" "	" "	" "	" "	" "	" "	" "	" "
Chingleput .. .	" "	" "	" "	" "	" "	" "	" "	" "
North Arcot .. .	" "	" "	" "	" "	" "	" "	" "	" "
South Arcot .. .	" "	" "	" "	" "	" "	" "	" "	" "
Salem .. .	" "	" "	" "	" "	" "	" "	" "	" "
Tanjore .. .	909	" "	" "	" "	" "	" "	" "	1,000
Trichinopoly .. .	" "	" "	" "	" "	" "	" "	" "	" "
Coimbatore .. .	" "	" "	" "	" "	" "	" "	" "	" "
Neigherries .. .	" "	" "	" "	" "	" "	" "	" "	" "
Malabar .. .	" "	" "	" "	" "	" "	" "	" "	" "
South Canara .. .	" "	" "	" "	" "	" "	" "	" "	" "
Madura .. .	" "	" "	" "	" "	" "	" "	" "	" "
Tinnevely .. .	" "	" "	" "	" "	" "	" "	" "	" "
Total..	909	" "	" "	" "	91	" "	" "	1,000

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

DISTRICT ROAD, &c., FUNDS.

[illegible]

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

[illegible]

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

DISTRICT ROAD, ETC., FUNDS.

Districts.	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS				MISCELLANEOUS PUBLIC IMPROVEMENT			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Neigherries	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, ETC., FUNDS.				ESTABLISHMENT.								Grand Total.	Tools and Plant by Public Works Officers.	RS.	Total Outlay from all Funds.				
	TOTAL				BY PUBLIC WORKS OFFICERS.				BY OFFICERS OF THE REVENUE DEPARTMENT.								BY OFFICERS OF THE EDUCATIONAL DEPARTMENT.			
	By Public Works Officers.		By Officers of the Revenue Department.		Petty.		Ten per cent. for Supervision.		Total.		Petty.						Ten per cent. for Supervision.		Total.	
	New Works.	Repairs.	New Works.	Repairs.	Petty.	Ten per cent. for Public Works	Total.	Petty.	Ten per cent. for Public Works	Total.	Petty.	Ten per cent. for Public Works					Total.			
<i>Public Bungalow Fund.—(Concluded.)</i>																				
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Godavery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Kistna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Nellore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Bellary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Presidency	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Neilgherries	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Malabar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
South Canara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Madura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Total...	4,670	2,160	650	4,069	...	683	683	...	...	...	...	...	...	...	...	12,232	...			

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, ETC., FUNDS.											
	CIVIL			AGRICULTURAL			COMMUNICATIONS			MISCELLANEOUS PUBLIC IMPROVEMENT		
	By Officers of the Revenue Department.			By Public Works Officers.			By Public Works Officers.			By Public Works Officers.		
	New Works.			New Works.			New Works.			New Works.		
	RS.	ES.	RS.	RS.	ES.	RS.	RS.	ES.	RS.	RS.	ES.	RS.
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...
Chungavaram	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Neigherries	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...
Total...	707	...	...	...	...	...	...	...	...	63,516	6,376	...

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, ETC., FUNDS.											
	CIVIL			AGRICULTURAL			COMMUNICATIONS			MISCELLANEOUS PUBLIC IMPROVEMENT		
	By Officers of the Revenue Department.			By Public Works Officers.			By Public Works Officers.			By Public Works Officers.		
	New Works.			New Works.			New Works.			New Works.		
	RS.	ES.	RS.	RS.	ES.	RS.	RS.	ES.	RS.	RS.	ES.	RS.
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Neigherries	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...
Total...	64,223	6,376	...	...	...	...	...	...	...	7	77,666	...

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, etc., FUNDS.											
	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
	<i>Pound Fund.</i>											
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Neilgherries	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...
Total...	...	...	...	...	...	...	...	...	...	...	2,477	5,882

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, etc., FUNDS.											
	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
	<i>Pound Fund.—(Concluded.)</i>											
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Neilgherries	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...
Total...	...	...	...	...	...	...	...	...	...	...	2,477	5,882

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Continued.)

Districts.	DISTRICT ROAD, ETC., FUNDS											
	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Neelcherries	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...
Total...	...	...	...	...	...	...	...	...	...	...	...	...

STATEMENT showing the outlay from Local Funds of all descriptions under Budget heads during the year 1869-70.—(Concluded.)

Districts.	DISTRICT ROAD, ETC., FUNDS											
	CIVIL BUILDINGS				AGRICULTURAL				COMMUNICATIONS			
	By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.		By Public Works Officers.		By Officers of the Revenue Department.	
	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.	New Works.	Repairs.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Godavery	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...
Bellary	...	...	...	...	...	...	...	...	...	...	...	...
Presidency	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Neelcherries	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...
Total...	...	...	...	...	...	...	...	...	...	...	...	...

CIVIL BUILDINGS.

4. *The Presidency College.*—The Presidency College which was opened by His Royal Highness the Duke of Edinburgh during his short stay in Madras was virtually ready for occupation, the Central Tower alone remaining incomplete. The materials are a light-coloured granite from Sholinghur, blue lime-stone from the Cuddapah District with red brick, and when the grounds are laid out and planted the building will have a handsome appearance. The expenditure in 1869-70 was Rupees 35,090, and the total expenditure has reached the sum of Rs. 2,80,264.

5. *Senate House.*—A beginning

5. *Senate House*.—A beginning was made with the new Senate House which stands not far from the Revenue Board Office, but is nearer the sea. This when completed will be another among the handsome buildings which are being added to the town. At present only the foundations have been laid at a cost of Rs. 23,152, the work having been designed with the greatest care with the view to secure both comfort and architectural effect.

6. *Provincial School, Mangalore.*—The Provincial School at Mangalore in the South Canara District was, with the exception of an out-house, completed and given over for occupation. The outlay during the year was Rupees 11,748, and a sum of Rupees 799 was spent on the School-house at Wallajapett in the South Arcot District.

COMMUNICATIONS.

		Public Works Officers.		Revenue Officers.	
		Rs.	P.	Rs.	P.
* New Works	...	11,28,165	...	18,11,379	...
Repairs	...	6,82,913	...	45,713	...
				1,33,095	...
				1,78,803	...
				Total...	19,90,187

7. The total expenditure during the year on Communications was Rs. 12,90,187, the largest outlay having been incurred in the following Districts:—

Tanjore	...	...	...	...	...	Rs.
Godavery	...	...	...	...	...	2,71,373
Tinnevelly	...	...	...	...	...	1,61,804
Malabar	...	...	...	...	...	1,43,744
Vizagapatam	...	...	...	...	...	1,31,970
Kistna	...	...	...	...	...	1,31,080
Coimbatore	...	...	...	...	...	1,19,821
Cuddapah	...	...	...	...	...	1,01,613
Ganjam.—A sum of Rupees 153 was	...	...	...	...	...	97,561

...	...	...	...	...	1,19,821
...	...	...	...	...	1,01,613
...	...	...	...	...	97,561

8. *Ganjam*.—A sum of Rupees 153 was spent on the road from Cunchilly to Barwar; 3 miles of the line were gravelled and 4 miles turfed. The earth-work and turfing on the road between Aska and Soorada, which was undertaken with a view to opening out communication with the unsettled districts through which it passes, were completed, and the other portions of the line were in an advanced state of progress; Rupees 11,584 were spent on it during the year. Operations were continued on the road from Alikam to Heeramandalum, and an outlay of Rs. 18,240 was incurred in executing earth-work for 10 miles, gravelling 5 miles of the line, constructing several masonry works, and collecting a large quantity of materials.

9. *Vizagapatam*.—Good progress was made on the road from Gajapatnagaram to Parvatipore; metalling, gravelling, and turfing were being carried out, and but few masonry works now remain to be completed. The expenditure was Rupees 34,824. On the road from Chodaveram to Ankapilly, and on the branch to Subbaram almost all the earth was completed, a great portion of the gravelling was done, and considerable progress made in turfing. On the branch thirty-nine masonry works in all were finished and eleven were in course of construction, the year's expenditure being Rupees 29,836. The road from Vizagapatam to Gopalapatnam was nearly complete, and a sum of Rs. 13,128 spent on the work. On the road from Ankapilly to Moongapaka, and from thence to Poodemadaka, a sum of Rupees 15,000 was spent; the earth-work was roughly completed, two large bridges were built up to springing line, and another bridge and one sluice were finished, and turfing and gravelling were commenced. Fair progress was made with the masonry works on the road from Vizagapatam to Gajapatnagaram, and on the line connecting Ramabadrapuram and Pachipenta; Rupees 10,000 and Rupees 9,815, respectively, were spent on the works. The former of these lines was first commenced in 1862 with a sum of Rupees 6,500 contributed by the Honourable the Maharajah of Vizianagram.

10. *Godavery*.—The road along the canal bank from Dowlaishweram to Samulcottah, which was constructed with a view to afford increased facilities for communication between the important towns which it connects, made satisfactory progress during the year; the expenditure amounted to Rupees 22,543. A road sluice and bridge were completed on the road from Nursapur to the Chinchinaidoo Ferry, and fair progress was made with the tunnels and sanding of the line. The expenditure was Rupees 4,346. A sum of Rupees 11,263 was laid out on the road from Peravally to Vizasweram, the earth-work on which was almost finished, one girder bridge built, and the sanding and minor masonry works were being proceeded with. The earth-work and sanding over the road from Rajole to Mooktasweram were completed at an outlay of Rupees 6,972. The earth-work and most of the minor masonry works, together with the bridge across the Nursapur canal, were finished on the road from the river bank of the Vasista Godavery at Koduru to Attilly, while good progress was made with the bridges across the Nocala and Gostanuddy, the total outlay amounted to Rupees 20,493. Rupees 7,441 were spent on the road from Ellore to the Hyderabad frontier, the work on which was nearly completed as far as Chintalapooddy and was being carried out beyond that to the 30th mile. A sum of Rupees 10,968 was laid out on the continuation of the Veeravasweram road to Akeed; the earth-work on the line was completed, the foundations of the girder bridge near Akeed were laid, and the other masonry works, as well as the sanding, made good progress. On the road from Woondoor bridge *via* Ramachendrapoor to Medapadu, an outlay of Rupees 6,837 was incurred in completing 6 miles of earth-work, 3 miles of turfing, and two bridges, and on the collection of materials, and Rupees 6,116 were spent on the road from Kundavally to Peravally. On the road from Ramachendrapoor to Bicole, Rupees 9,967 were spent in completing 3 miles of earth-work and two bridges, and partially finishing a third.

11. *Kistna*.—Rupees 6,936 were laid out in metalling the last 7 miles of the road from Guntoor to Sattanapully and in quarrying and carting materials for completing it, and Rupees 10,303 were spent in constructing the road between Guntoor and Amawathy. 4 miles of the line from Chinnapalakaloor to Narsarowpett

on the bridge across the Condamoor river on the road between Tindivanam and Pondicherry, Rupees 4,328 on the bridge over the Pennair at Bangalore, and Rupees 2,336 on a bridge of two arches of 12-foot span on the Salem and Suramungalum road near the spot crossed by the Railway line.

18. *Tanjore*.—Considerable progress was made with the masonry works on the cross road from the Huruchendranuddy bridge to Keevalore, the outlay during the year amounting to Rupees 19,500. Rupees 32,947 were expended in raising, widening, and metalling the road from Needamungalum to Munnargudy. The road on the south bank of the Coleroon between Trunk Road No. IX. and Anikaren Choultry was finished, save the sanding of a portion of the line; the expenditure amounting to Rupees 11,405. The restoration of 5 miles of the road from Cottoor to Sunzrundy was nearly completed, and on the road from Sheally to Panagatan-goody on the Coleroon bank a portion of the earth-work was formed, and the collection of materials was in active progress, the outlay on the former having been Rupees 7,977, and on the latter Rupees 5,176. The line from Mannamadoo to the Coleroon bank at Papagudy was completed, and the metalling of Road No. IV. from Jumboocasawary bridge to Teroovady, a large town in the best paddy-growing part of the district, was finished at an outlay of Rupees 1,323 and Rupees 18,502, respectively. Rupees 30,061 from Local and Rupees 2,446 from Imperial Funds were expended on a bridge over the dam across the Cauvery and Cudumurty which was constructed with a view of improving the communication along the feeder to the Boodalore station on the Great Southern of India Railway. An outlay of Rupees 8,414 was incurred in forming the road from Poondootam to the Combaconum boundary and raising it to the top of the south bank of the Arasalar; the earth-work was nearly completed, and sand was being collected. Rupees 11,038 were spent on metalling the road from Papanasem to the Railway station at Sattiamungalum and in the carting of gravel.

19. *Trichinopoly*.—10 miles of the road from Perambalore to Arealore were opened out for wheeled traffic, and good progress was made with the remaining portion (6 miles). The expenditure during the year amounted to Rupees 1,280. 7 miles of the road from Perambalore to Kistnapuram were completed and made ready for traffic at an outlay of Rupees 1,803. The remainder of the line was in a very advanced state of progress. The minor masonry works on the road from Mussori to Torriore were completed, and good progress was made with the earth-work; the expenditure having been Rupees 4,186. The road from Trichinopoly to Salem on which there was an outlay of Rupees 4,613, was almost finished, the last mile only remaining to be completed; Rupees 6,502 were spent in completing the extension of Road No. XIII. along the Coleroon embankment in continuation of the road from the Lower Anicut to the Aroomooly limits.

20. *Coimbatore*.—The important road from Oodamalpetta to Terpoor, the formation of which was sanctioned in 1863, in order to afford relief during an unusually bad season to the ryots and others in the Coimbatore Districts, made good progress; Rupees 20,000 having been spent on it. The construction of bridges and drains on the roads from Avarcoorchy to the Madura frontier, from Caroor to the same limits *via* Vetliany and from Avarcoorchy to Chinnadarapooram was carried out at an expenditure of Rupees 13,416.

21. *Malabar*.—Rupees 7,220 were spent on the road from Cherikul *via* Velooth, Irkur, Peramperamba, and Keperamba to the Coorg boundary, the masonry and

earth-works on which made fair progress. An outlay of Rupees 13,372 was incurred on the line from Pandekaad by Malatoor to the Mandoor road, which is considered a very useful communication through a country hitherto quite shut out from cart traffic; all the works on the road were completed, with the exception of two or three tunnels and a large bridge over the Mellatoor, which is being proceeded with. Rupees 10,000 were spent on forming the road from Pandekaad to Mandoor and Mambat, and Rupees 5,658 on the road from Callengode to the Coimbatore frontier. Operations were actively continued on the road from Peramperamba to Nedibrunjul on the Periah road, and Rupees 10,916 were spent on the line. The imperfect state of several of the existing lines of communication in parts of the Malabar District having been strongly pressed upon the notice of Government, sanction was accorded to the re-construction of masonry works and alterations of the gradients, where necessary, on the roads from Tanoor to Teroovangapooram, and from Choughaut to Yennamakul. The work was carried out to completion at an outlay during the year of Rupees 3,363.

22. *Wynaad*.—Materials were collected at an outlay of Rupees 1,226 for a public bungalow at Periah, and one at Nadghanny was almost completed at an expenditure of Rupees 2,730. These buildings were represented to be much needed in the district for the accommodation of travellers.

23. *Cunara*.—The bridge on the Hassangady river on the Moodbiddy and Bellangaddy road was opened for cart traffic, and considerable progress was made with those on the Buntwall and Moodbiddy road, the expenditure reaching in the former case Rupees 7,853, and in the latter Rupees 11,499. The bridging of the Paddidry and Karikal road was completed at an outlay of Rupees 1,833, while on the Pootoor and Munjeshwar road eight bridges were finished, and two more nearly so at an expenditure of Rupees 5,781. These works were undertaken with a view to perfecting the existing lines of communication in the district, and their execution was recommended by the District Officers in preference to incurring expenditure on new roads.

24. *Madura*.—The outlay on the Periah Ghaut Road, which was commenced as a preliminary to further operations on the project for turning the waters of the Perryaur into the Vigay, amounted to Rupees 10,033. After the earth-work had been completed to a width of 18 feet, it was found necessary to suspend progress owing to financial restrictions. The road between Shevagunga and Truputtur was completed at an outlay of Rupees 16,550, and a sum of Rupees 1,050 was spent on the line between Dindigul and Battalagunta. Little progress was made on the road between Shivagunga and Tondy, owing to operations having been commenced late in the year. The outlay was Rupees 3,431. A sum of Rupees 11,490 was appropriated to the road from Dindigul to Caroor, little of which remains to be completed, and Rupees 1,000 were laid out on the line from Audipatty to Allianagarum.

25. *Tinnevely*.—Fair progress was made on the road from Vypur to Ootapidaram, and Rupees 12,797 were spent on the line; Rupees 8,100 were laid out on the road from Ootapidaram, *via* Mantachi and Sevalperi, to Palamecottah. The works on the road from Palamecottah to Strcevilliputtoor *via* Sunkerniar Covil were completed at an outlay of Rupees 7,153. 4 miles of the road from Tinnevely to Rajahpolliem were raised, and several masonry works constructed at a cost, during the year, of Rupees 4,612; and 7 miles of the road from Madura frontier *via* Strcevilliputtoor to Solaseri with several masonry works were completed at an expenditure

of Rupees 6,928. Rupees 5,141 were spent in finishing a portion of the road from Vasudavanalloor through Tenkasi to Panagoody, and Rupees 7,000 in carrying out to completion 8 miles of the extension of the Nanguneri and Vizianagaram road to Tisayanavalai. 4 miles of the road from Streerivuntum to Auroomooamungalam, and 7 miles of that from Tinnevely via Sibilpuri and Vellasand to Streerivuntum were finished at an outlay of Rupees 10,000 on each line. On the road between Nanguneri and Terumarangudi, Rupees 10,000 were spent; the cost of completing the Terumarangudi bridge being included in the amount.

MISCELLANEOUS PUBLIC IMPROVEMENT.

26. The restoration of the Madras Pier was completed at an outlay of Rs. 26,792, and an expenditure of Rupees 25,000 was incurred on the Iron Screw Pile Pier at Calicut. A sum of Rupees 7,110 was spent in raising a column and fixing a new lantern at the harbour of Tuticorin. The structure which is raised on the remains of an old Dutch Column is designed to exhibit a light at an elevation of 70 feet above the level of the sea; wells for obtaining water for drinking purposes were sunk in various places in the Tanjore District, and an outlay of Rupees 4,425 was incurred on that account.

27. A statement of works of public utility constructed by private individuals is herewith sent.

Colonel, R.E.,

Secretary to Government.

APPENDIX.

Statement showing the Expenditure on the principal works which were undertaken from Local Funds in the Madras Presidency during the year 1869-70.

District.	Work.	By whom undertaken.	From what source undertaken.	Estimate.	Expenditure up to 31st March 1869.	Allotment for 1869-70.	Expenditure in 1869-70.
Presidency	CIVIL BUILDINGS.	By P.W. Officers.	Educl. Funds...	Rs. 2,52,760	Rs. 2,45,174	Rs. 35,090	Rs. 35,090
Do.	Erecting a new Presidency College at Chepauk	Do.	Do.	55,896	...	43,031	28,152
South Canara	Constructing a Senate-house at do.	Do.	Do.	28,480	16,675	12,000	11,747
North Arcot	Erecting a Provincial School at Mangalore	Do.	Do.	3,200	...	2,000	799
Do.	School-house at Wallajapett	Do.	Do.	...	...	...	...
Ganjam	COMMUNICATIONS.	Do.	Dt. Road Funds.	12,270	10,907	153	153
Do.	Road from Cunchilly to Barwar	Do.	Do.	73,875	36,943	13,000	11,884
Do.	Do. between Aska and Soorada to the Sooria platform	Do.	Do.	63,200	10,000	18,560	18,240
Vizianagaram	Do. from Alkam to Heeramundalum	Do.	Do.	1,23,553	88,725	34,827	34,824
Do.	Do. from Gajapatynagaram to Parvatipore	Do.	Do.	79,600	10,105	30,850	29,836
Do.	Do. from Chodavaram to Ankapilly with a branch to Subbaram	Do.	Do.	61,220	1,864	15,000	11,472
Do.	Do. from Ankapilly to Munagapaka and from Munagapaka to Pudi-madaka	Do.	Do.	16,230	3,000	13,230	13,128
Do.	Do. from Vizagapatnam to Gopalpatnam	Do.	Do.	38,480	...	10,000	10,000
Do.	Do. from Vizianagaram to Gajapatynagaram	Do.	Do.	41,730	...	11,750	9,815
Godavery	Do. from Ramabadrapooram to Pachipentah	Do.	Do.	1,04,440	26,676	33,100	22,543
Do.	Do. along the canal bank from Dowlaisweram to Samalcottah	Do.	Do.	36,840	13,806	7,000	6,972
Do.	Do. from Rajole to Mooktasweram	Do.	Do.	54,100	15,601	18,500	20,493
Do.	Do. from the river bank of Vasista Godavery at Kuduru to Attily	Do.	Do.	11,840	6,390	5,450	4,346
Do.	Do. from Narsapoor to the Chencenada ferry	Do.	Do.	39,720	22,482	10,060	7,441
Do.	Do. from Ellore to Hyderabad frontier, via Chintalapudy	Do.	Do.	34,950	3,242	9,500	10,968
Do.	Continuation of Veeraswararam road to Akeed	Do.	Do.	34,600	2,554	11,500	11,263
Do.	Road from Peravally to Veeraswararam	Do.	Do.	58,060	...	15,000	6,837
Do.	Do. from Woondoor bridge, via Ramachendrapoor to Medapadu	Do.	Do.	18,000	...	6,000	6,116
Do.	Kundavally and Peravally road	Do.	Do.	32,850	...	10,000	9,967
Do.	Road from Ramachendrapoor to Bickavole, including masonry bridges.	Do.	Do.	21,300	8,500	2,000	2,000
Madras	Constructing a 2nd class district road from Oottoocottah to Great Northern Road No. 1, via Pariapollem	Do.	Do.	13,300	...	2,500	1,738
Do.	Do. from Chinnamooten Chavady to Great Northern Road, via Sheally Mootelly's Choultry	Do.	Do.	21,400	17,000	...	3,868
Do.	Road from Trivellore to Nagalapooram, via Oottoocottah	Do.	Do.	...	...	...	...

APPENDIX.—(Continued.)
Statement showing the Expenditure on the principal works, etc.—(Continued.)

District.	Work.	By whom undertaken.	From what source undertaken.	Estimate.	Expenditure up to 31st March 1869.	Allotment for 1869-70.	Expenditure in 1869-70.
	COMMUNICATIONS.—(Continued.)						
Madras	Road from Oottooctah to Sattivaloo	By P.W. Officers.	Dist. Road Funds.	Rs. 13,200	Rs. ...	Rs. ...	Rs. 1,698
Do.	Do. from Vullyoor to Great Northern Road...	Do.	Do.	19,570	...	...	1,120
Do.	Do. from Lattice bridge to Tirupooroor	Do.	Do.	9,220	...	...	2,998
Do.	Do. from 4th mile-stone on Great Southern Road No. II. to Tatty, via Ostravaloor	Do.	Do.	38,200	10,680	2,720	2,720
Do.	Branch road from Caragooly to join the above road at Nelvey	Do.	Do.	9,150	...	...	1,993
North Arcot	Road from Tripatty Railway Station, via Calastry to Naidoopett	Do.	Do.	34,500	...	...	3,516
Do.	Do. from Tripatty town to Railway Station	Do.	Do.	28,750	...	...	1,056
Do.	Do. from Trunk Road No. X. at Palmanair to the Coopum Railway Station, via Vencatagircettah	Do.	Do.	...	...	...	2,400
Do.	Do. from Kunnamungalam to South Arcot frontier	Do.	Do.	26,000	...	...	2,800
Do.	Do. from Wandiwash to Pooboor, via Chetput...	Do.	Do.	...	...	...	2,630
Do.	Do. from Arnee to South Arcot frontier, via Chetput	Do.	Do.	44,860	...	...	1,800
Kistna	Do. from Guntoor to Sattanapally	Do.	Do.	46,063	35,478	7,589	6,936
Do.	Do. from Chinnapalakoor to Narsarowpett	By Rev. Officers.	Do.	50,000	5,619	10,000	10,303
Do.	Do. from Guntoor to Iyaloor	By P.W. Officers.	Do.	1,73,700	21,768	5,000	4,935
Do.	Do. from Sandole to Pannoor	Do.	Do.	16,600	18,969	29,310	21,290
Do.	Do. from Volaroo on the Kistna to Nizampatam	Do.	Do.	15,850	8,715	7,240	2,048
Do.	Bridge over the creeks near the village of Carlapollem	Do.	Do.	14,500	5,578	3,210	3,168
Do.	Road from between Bezoarah and Ibrampatam to Mylavaram	Do.	Do.	40,173	6,897	12,073	5,605
Do.	Do. from Masulipatam to Cowtaram	Do.	Do.	27,300	20,211	2,000	1,433
Do.	Do. from Masulipatam to Bapetla	Do.	Do.	24,670	19,186	4,884	3,808
Do.	Do. from Rapoor and Goodoor to Vencatagerry	Do.	Do.	12,530	8,213	4,316	4,897
Nellore	Do. from Ollapallem under the bank of Ulloor Ramunnah Tank to Singapett	Do.	Do.	15,755	4,928	9,525	9,325
Do.	Do. from Kavalay to Kaligiri, via Zaldunk and Chinna Craka	Do.	Do.	11,700	8,183	2,620	2,615
Do.	Do. from Mambrola on Trunk Road No. VI. to Pottalakoor	Do.	Do.	65,700	5,998	10,000	10,000
Do.	Do. from Sangam to Kaligiri	Do.	Do.	25,500	1,710	8,316	6,374
Do.	Do. from Kaligiri to Oodlagiri	Do.	Do.	19,925	17,571	2,354	1,839
				30,450	2,322	11,000	9,244
Do.	Do. from Nellore to Somaiswaram	Do.	Do.	...	70,660	21,819	11,500
Do.	Do. from Poddatoor to Yerragootla	Do.	Do.	...	40,720	19,999	17,000
Do.	Do. from do. to Nandialumpett	Do.	Do.	...	...	17,702	10,000
Do.	Do. from Pulivendla to Moodanoor	Do.	Do.	...	40,060	7,957	15,000
Do.	Do. from Budwail to Poremanilla	Do.	Do.	...	...	7,998	1,866
Bellary	Do. from Chippagiri to Maddekerah	Do.	Do.	...	8,550	1,282	8,154
Do.	Do. from the Kurnool road to the Railway Station at Ghooty and thence to Adony	Do.	Do.	...	1,125	...	...
Do.	Do. from Madagiri to Powger frontier	Do.	Do.	...	10,488	3,135	7,268
Kurnool	Do. from Nandicotoor to Bairlooty	Do.	Do.	...	25,700	6,178	7,417
Do.	Do. from Adony to Ghooty	Do.	Do.	...	52,000	1,354	24,289
Do.	Do. from Maddekerah to Toogaly	Do.	Do.	...	15,990	4,162	3,142
Do.	Do. from Rampoor pass to Nandicanama ghaut	Do.	Do.	...	24,730	...	1,232
Do.	Do. from Branch road from Kurnool High Road to Calva	Do.	Do.	...	...	...	8,258
Do.	Do. from Cumbum to Cuddapah frontier	Do.	Do.	...	7,480	...	5,115
Do.	Constructing a road from Trinomalay to the boundary of the Villapooram Talook at Vattavallam	Do.	Do.	...	...	...	4,417
South Arcot	Do. from Kallacoorchi to Virdachellam	Do.	Do.	...	16,000	...	7,162
Do.	Completing the road from Virdachellam to Altoor in Salem	Do.	Do.	...	11,360	4,777	7,200
Do.	Constructing a bridge across the Condanoor river on the road between Tindevanum and Pondicherry	Do.	Do.	...	5,030	...	4,880
Salem	Do. a bridge over the Pennair at Bangalore...	Do.	Do.	...	4,310	...	5,000
Do.	Do. a bridge of 2 vents of 12 feet span on the Salem and Suramungalum road near the place where the Railway line crosses...	Do.	Do.	...	10,900	4,936	4,130
Tanjore	Raising, widening, and metalling the road from Needanungalum to Manargoody	Do.	Do.	...	3,500	...	4,328
Do.	Cross road from near Huruchendranaddy bridge to Kevalore	Do.	Do.	...	46,000	...	2,336
Do.	Restoration of 5 miles of road No. 27 from Cottoor to Sunzrundy	Do.	Do.	...	60,300	11,331	32,947
Do.	Road No. 69 from Sheally to Panangatangoody on the Coleroon bank...	Do.	Do.	...	9,620	5,113	19,500
Do.	Do. " 53 from Mannamadoo to the Coleroon bank at Papagudy	Do.	Do.	...	12,650	...	7,977
Do.	Completing road No. 70 along the south bank of the Coleroon between Trunk Road No. IX. and Anikaren Choultry on the Cuddalore and Sheally road	Do.	Do.	...	6,070	4,459	5,176
Do.	Metalling road No. 4 from Jumbocaseewery bridge to Teroovady	Do.	Do.	...	25,000	7,974	1,323
Do.	Constructing bridge over the dam across the Cauvery and Colamboorty...	Do.	Do.	...	18,000	...	11,405
Do.	Road No. 79 from Poondootam to Combaconum boundary and raising to the top of the Arasalar south bank	Do.	Do.	...	34,300	3,186	18,502
Do.	Metalling road No. 39 from Papanasem to the Railway Station at Sattiamungalum	Do.	Do.	...	17,130	...	30,061
				...	54,500	...	*2,446
				...	...	...	8,414
				...	...	...	11,038

* Imperial Funds.

APPENDIX.—(Concluded.)
Statement showing the Expenditure on the principal works, etc.—(Concluded.)

District.	Work.	By whom undertaken.	From what source undertaken.	Estimate.	Expenditure up to 31st March 1869.	Allotment for 1869-70.	Expenditure in 1869-70.
	COMMUNICATIONS.—(Concluded.)						
Trichinopoly	Road No. 9 from Perambalur to Arcalur ...	By P.W. Officers	Dt. Road Funds	30,300	16,524	1,280	1,280
Do.	Do. " 10 from do. to Kistapuram ...	Do.	Do.	33,200	22,324	2,020	1,803
Do.	Do. " 7 from Museri to Toriore ...	Do.	Do.	60,035	20,275	4,200	4,186
Do.	Extending road No. 13 along the Coleroon embankment from the Arcology limits to the Ponnary channel in continuation of the 10 miles from Lower Anicut to Arcology limits ...	Do.	Do.	8,050	1,517	6,503	6,502
Do.	Constructing road from Trichinopoly to Salem, via Toriore ...	Do.	Do.	47,870	41,399	6,470	4,613
Malabar	Road from (Caroor) Peramparamba to Nedirunjul on the Periah road, District Road No. 2 ...	Do.	Do.	31,500	8,985	12,000	10,916
Do.	Do. from Panikaad to Vandoor and Mambat, part of District Road No. 41-A ...	Do.	Do.	18,100	...	10,000	10,000
Do.	Do. do. by Melatoor to two miles west of Manjur on the Mandoor road, District Road No. 38 ...	Do.	Do.	27,500	6,999	13,342	13,372
Do.	Re-constructing bridges on the cross road from Tanoor, via Wathahany to Terovangapooram ...	Do.	Do.	7,224	5,657	1,947	1,946
Do.	Do. bridges between Chovghat and Yennamakal ...	Do.	Do.	3,500	2,217	1,412	1,417
Do.	Road No. 9 from Cherikul, via Velooth, Irkoor, Peramparamba, and Kiperamba to the Coorg boundary ...	Do.	Do.	40,900	27,964	7,336	7,220
Do.	Do. No. 13 from Collengode to the Coimbatore frontier ...	Do.	Do.	30,250	8,346	5,658	5,658
South Canara	Bridge on the Hasangudy river on the Moodbidry and Baltangady road. Bridges on the Buntwall and Moodbidry road ...	Do.	Do.	22,250	14,399	7,852	7,853
Do.	Do. on the Pootoor and Munjeshwar road by Vitla ...	Do.	Do.	36,860	11,073	8,500	11,499
Do.	Bridging the Podbidry and Karikal road ...	Do.	Do.	19,670	9,234	5,800	5,781
Coimbatore	Road from Oodamulpettah to Tirpoor ...	Do.	Do.	7,350	5,497	1,850	1,833
Do.	Bridges between Aravacoorchy and the Madura frontier ...	Do.	Do.	71,600	22,873	20,000	20,000
Do.	Do. and drains on the road from Caroor to the Madura frontier by Velliary ...	Do.	Do.	6,500	...	6,500	6,805
Do.	Do. do. from Aravacoorchy to Chinnadarpooram ...	Do.	Do.	11,350	7,667	3,653	3,655
Tinnevely	Road from Vypair to Otupidarum ...	Do.	Do.	11,000	7,823	3,177	2,956
		Do.	Do.	78,000	7,750	14,500	12,797

Do.	Do. from Ottapidaram via Manicchi and Sevalperi to Palamcottah ...	Do.	Do.	42,000	3,000	7,000	8,100
Do.	Works on road No. 2 from Palamcottah to Strevelipatoor via Sankorainarcovil ...	Do.	Do.	74,265	67,144	7,153	7,153
Do.	Road from Tinnevely to Rajapollicm ...	Do.	Do.	21,400	...	5,000	4,612
Do.	Works on road from Madura frontier via Strevelipatoor to Solasari ...	Do.	Do.	38,000	10,720	10,500	6,928
Do.	Portion of road No. 1 from Vasoodaravalluor through Tenkasi to Panagooly ...	Do.	Do.	25,000	19,859	5,141	5,141
Do.	Extension of the Nangunery and Vizianaravannam road to Tisayanavallai. Road from Streveicuntam to Aurconongamangalum ...	Do.	Do.	20,900	...	7,000	7,000
Do.	Do. from Tinnevely via Sevalperi and Valluad to Streveicuntum ...	Do.	Do.	19,200	...	10,000	10,000
Do.	Do. between Nangunery and Terukurangudy ...	Do.	Do.	44,600	10,050	10,000	10,000
Do.	Terukurangudy bridge ...	Do.	Do.	5,860	...	5,860	5,860
Madura	Perryaur Ghaut Work ...	Do.	Do.	14,100	2,871	4,179	4,179
Do.	Road between Shevagunga and Tondy ...	Do.	Do.	...	6,129	10,000	10,000
Do.	Do. between Shevagunga and Tripatoor ...	Do.	Do.	50,400	...	8,500	8,431
Do.	Do. Dindigul and Battlagunta ...	By Rev. Officers.	Do.	41,650	19,500	16,550	16,550
Do.	Do. from Audipatty to Allhiagarum ...	Do.	Do.	24,000	...	9,000	1,050
Do.	Do. Dindigul to Caroor ...	Do.	Do.	33,680	21,396	12,280	1,000
Do.	Constructing Public Bungalow at Periah ...	Do.	Do.	15,500	3,910	11,490	11,496
Malabar (Wye nad.)	Traveller's Bungalow at Nadganny ...	By P.W. Officers.	Do.	5,379	2,779	2,600	1,226
Do.		Do.	Do.	5,904	1,593	4,311	2,730
MISCELLANEOUS PUBLIC IMPROVEMENT.							
Tanjore	Wells for drinking water ...	By Rev. Officers.	Do.	...	...	9,000	4,425
Malabar	Iron Survey Pile Pier at Calicut ...	By P.W. Officers.	Port Funds	64,000	...	33,000	23,000
Tinnevely	Raising column and fixing new lantern at Tuticorin ...	Do.	Do.	9,800	...	7,960	7,110
Madras	Restoration of the Madras Pier ...	Do.	Do.	2,87,424	...	30,000	26,792

Communications

Trunk Road
No 6.

A sum of Rs. 17,438 has been laid out in im-
-proving that portion of
Trunk Road No 6, which
runs from Chicacole in the
Gaujam District to beyond
the Bengal Frontier. To the
north of the river Mahisra
eleven miles have been
metalled, 9 miles gravelled
and 3 1/2 miles of side chan-
-nels have been cleared.
Between the above river &
Chicacole two and half miles
of road have been finished
and considerable progress
has been made with the
remaining portion. Many
of the masonry works
are completed and material

for

for the further prosecution
of the work have been col-
-lected. The work has been
stopped for want of funds.

To the South of
Chicacole between that
town and Chittivalsali
Trunk Road No. 6 has been
further improved at an
outlay during the past year
of Rs 6,840. The masonry
works, the earth work, the
metalling, the gravelling and
the turving are completed
for a portion of the road -
and the rest of the work
was in progress till the funds
were withdrawn in conse-
quence of the financial
difficulty.

Between Chittavalasali
and Soonei which lies on the
southern frontier of the

Vizagapatani District Rs
29,541 have been expended
on Trunk Road No. 6. For
a distance of 32 miles the
earth work is completed,
and for a further distance
of 6 miles the turving and
gravelling are completed.
Twenty nine masonry works
are ready to receive traffic
and, exclusive of these, five
large bridges have been built
up to the springing line
of the arches. Numerous other
works were in progress.
In the Khiviah and
Bellare Districts a great
deal of work has been done
to Trunk Road No. 6. In
the former district Rupees
33,988 have been laid out
partly in collecting mate-
rials in the quarries partly
in

in earth work. In Bellare where 27,193 have been spent considerable progress has been made with some of the masonry work, five miles of the road have moreover been metalled and gravelled and twelve miles have been opened for traffic.

Besides the Trunk Road in the north, the minor road from Vizagapatam to Cassipoor has been partly gravelled and otherwise improved by the construction of several masonry works. The expenditure during the past year on this road was Rs 11,498.

In the Ceded Districts there has been no expenditure on Roads during 1869/70 which calls for remark.

In

Great Northern Trunk Road. In the Madras District the large expenditure of Rs 76,627 has been incurred on the portion of the Great Northern Trunk Road lying to the north of the Panangadu Back-water in order that it may be fitted for rapid traffic. The abutments and piers of the bridge over the Cortelan have been raised to an uniform height of 8 feet, but the work has been left in this state for want of funds. The embankment at the Panangady Back-water is nearly completed, and the rough stone revetment to protect it against the effects of the water is partly finished. One seven arched bridge is nearly ready for

traffic; and the abutments and piers of a three arched bridge have been raised to the springing line of the arches. Twenty five miles of the road have been reformed and metalled and some minor masonry works have been completed.

On the portion of Trunk Road No. VIII in the Madras District Rs. 5,622 ^{have} been expended in the past year. Three miles have been metalled to the full width and two miles to half the proper width. Materials have moreover been collected for prosecuting the work when funds are available.

On the bridge across the Palar Rs. 14,863 have been laid out.

Trunk Road No. 8.

Palar Bridge

Road from Mercanam
to Pondicherry.

Eight piers have been raised to the full height; and forty three piers to about half the full height, a considerable quantity of materials has also been prepared.

A beginning has been made with the new road from Mercanam in the South Arcot District to the French Settlement of Pondicherry on which Rs. 10,606 were expended in 1869/70. This road was sanctioned to replace a sandy coast track, to open out the country and especially to enable Country carts to travel from Pondicherry to the large salt Depot at Mercanam, whence they could return to the

interior laden with salt.
The want of funds both to
maintain the portion of
road already completed
as well as that in pro-
-gress will no doubt
cause the work to deteriorate.

The Bridge across the
Vellaur River near Muthoor
on the coast road from
Pondicherry to Nagapatnam
has been advanced by an
expenditure of Rs 19,931.
The north and South abut-
-ments and wing walls
have been raised to the
full height, two piers with
flooring have been simi-
-larly completed on the
south side, and wills
have been sunk for another
pier and its retaining wall
constructed.

Bridge over Vellaur at Muthoor

Bridge over the Amiapooram today.

A small bridge of one
arch of 24 feet span costing
Rs 1098-5-1. has been sub-
-stantially completed over
the Amiapooram today on
the road between Kallakur-
-chy and the Salem fron-
-tier, and a bridge of two
arches each of 30 feet span
has been nearly completed
over the Varo-deranoor river
on the same road, the expen-
-diture having been in the
past year Rs 2096-8-60.

Iyaur Bridge

In the Trichinopoly
District Rs 48,853-14-10.
have been laid out on the
Iron Plate Girder Bridge
across the Iyaur. The abut-
-ments and wing ^{walls} have
been completed, and the
iron work has been
prepared

prepared in the Depart.
mental Workshops in
Madras and have been
dispatched to the site.

A considerable sum of
money has been spent in
the past year in improving
the communications of the
Coffee growing district
of Wynnad with both
the western coast and
the interior. On the Carhor
Ghaut (expenditure Rs
8,094) which has been
opened for traffic through-
out the season the prin-
cipal works demanding
attention are drainage and
metalling. The portion of
road between the head of
the ghaut and Goodaloor
is nearly completed. Between
Goodaloor and Sipacadoo

two

Roads in the Wynnad.

53 95
two large timber truss bridges
have been completed. This
portion of road runs through
black soil and clay and
in wet weather becomes
very heavy. After it is
metalled which it is expec-
ted to be this year the
state of things will be rectified.

On the Periah Ghaut
which connects the Wynnad
with the Mysore Territories
Rs 11,000 have been expended
in the past year. The road
is open to traffic and it
is rapidly undergoing im-
provement. It has been
partly metalled, some
cross drains have been
constructed, and much
rock has been removed.
The portion of road near
Inanantoddy, for 6 miles
in

5-1
in length is in fair order
but the rest of the road
in wet weather renders
it difficult for carts to
pass as easily as could be
desired. Between Inanam-
toddy and Bowally the
last monsoon did con-
siderable damage but
steps are being taken to
restore the road.

On the Sambracherry
Grant which is another
communication between
the Wynnad and Mysore
Rs 31,567 were spent in
1869/70. This road has
been in constant use
throughout the season
and the traffic on it is
considerable but it suf-
fered from the last mon-
soon. Part of it was

blocked up by sand slips
and much expense was
incurred in removing the
obstructions. Still the
work has made fair pro-
gress, and when the road-
way is widened and
proper revetments are
built it must prove a
great benefit to Coffee
planters.

Road from Suck Rady
to the Mysore Frontier.

A sum of 19,938 Rs
has been spent in impro-
ving the road which runs
from Suck Rady through
Vythery, Calpathy, Sultan's
Battery to the Mysore
Frontier. The Bridges and
Culverts between Suck Rady
and Vythery have been
advanced but are not yet
completed. For the road
between

between Tythery and Cal.
The putty little remains to be
done except the construction
of culverts for drainage pur-
poses. The same may be
said for the portion of road
between Calputty and Sul-
tans Battery, but the
latter is opened to traffic.
Between Sultans Battery
and the Mysore Frontier
the road requires chiefly to
be metalled. Several
Culverts have been com-
pleted on this portion
but some more will be
necessary before it will
have been properly drained.

A sum of Rs 2388
has been spent on the bridge
over the Koonoth River,
which is now drawing
towards completion.

Koonoth Bridge

Coonoor Chaul

The old shant from
the foot of the hills near
Mettapollam in the
Coimbatore District to
the Sanitarium of Coonoor
on the Neilgherries being
so steep as to render it
difficult for Cart traffic
a new road became nec-
essary. On this work, 14
miles of which have been
opened for traffic.

Rupies 18,477.5.6. were
spent in the past year.
Three bridges and 23 minor
drains have been completed.
A great extent of road has
been revetted, much rock
has been removed and a
large quantity of earthwork
has been executed.

The

in New Road from
the Goodaloor to Seddiwattam *The steepness also*
n of the old Goodaloor Ghaut
to Road on which the gradient
as averaged $1\frac{1}{2}$ having
to rendered it almost im-
be -passable for horse and
the bullock transit and
of totally so for carts and
the traffic having increased
considerably in this part
of the country the con-
struction of a new road
with easier inclines became
necessary. This line runs
from Seddiwattam to
Goodaloor and is in
direct communication
with both Cotacamund
and the Wynad. The
entire length (30 miles)
including the ghaut
was completed and

Road from Cotacamund
to Seddiwattam.

52 58
opened for Cart traffic last
December and the expen-
-diture in the past year
was Rs 19,999-15-

On the road which
has been constructed to con-
-nect Cotacamund with
the head of the Goodaloor Ghaut
at Seddiwattam Rupees
14,491-15-20 were laid
out in 1869/70. The work
has consisted chiefly of
revetment and earthwork.
One Bridge and some
minor masonry works
were completed.

Road from Cotacamund
to the Koodah Hills.

Rupees 15,428-6-50
were spent on the road
which is to run from
Cotacamund to the Koo-
-dah hills and to the
Govt Cinchona Plantations.

This road will help materially to develop the resources of this portion of the hills. The Govt own two large plantations here and there are several private estates, and a means of communication with the Nilgiris was much required. The completion of a revetment and a little blasting of rock would open the road for cart traffic to a distance of $8\frac{1}{2}$ miles, but the work has been stopped for want of funds.

The new road called the Barghoor Shant New Trace which is to connect the Railway Station at Erode with the town

Barghoor Shant

29
town of Mysore via Collegal and which will eventually supersede the old circuitous route via Caverypoor and Marthally has been partly opened to traffic at an expenditure during the past year of Rs 11,810 and considerable progress has been made with the Karoor Shant road and Bridges. The road is essential to the opening out of the Country and is required especially to admit of coffee from South Mysore being sent direct into Calcutta for shipment to Europe. Part of the road from Koodooty to the foot of the Barghoor Shant was opened for traffic early last official year.

The masonry of one bridge
of four arches, 60 feet span
each, and of two other bridges
has been completed and
only the timber platforms
remain to be finished.

A bridge at Seelanikoor
has been partly damaged.
With the exception of the
four bridges mentioned
along the Karhoor road
up to Arrucode may be
considered ~~as~~ ready.

On the road which is to
connect Mangalore with
Cannanore and which
is to run by Tittlah and
Woodroff twenty five
bridges have been completed
but the work has not
made such progress as
could be wished from
the

Road between Mangalore
and Cannanore.

Road from Immamaitka
near to the Coimbatore
District.

the want of funds. The
expenditure in 1869/70
was Rs 9,910-15-70.
In the South of the
Presidency 45 miles of the
road from Immamaitka
near to the border of the
Coimbatore District are
so far completed as to be in
good order for traffic and
ten miles more are under
construction. Fourteen
tunnels have been built
and six others are nearly
finished. Expenditure
in 1869/70 Rs 19,697.
The only other road calling
for notice is that which
runs between Palamcottah
and Tuticorin. A bridge
of 11 arches has been thrown
across

across the Chulka Nullai
river and four miles of
roadway have been com-
pleted. This road suffered
considerably from floods
in the past year. Ex-
penditure in 1869/70
Rs 38,691.

Some progress has
also been made in the
past year with the
navigable Canals of the
Presidency. In the
north the Canal between
the Chulka Lake and
the Ganjam River has
been opened to traffic,
but until it is extended
to the port of Gopalpur
it is not likely to be
made much use of. It
requires still to be deepened

Navigable Canals.

Canal between the
Chulka Lake and
River Ganjam.

Cheyaur Channel.

in parts in order that it
may be navigable through-
out the year. The expen-
diture during 1869/70 was
Rupees 6,097.

The Coast Channel
between the backwater
at Cheyaur and the new
salt Platform at the
same place has been exca-
vated to the full depth,
and the earthen embank-
ment required for the
new platform has been
completed. The foundations
and abutments of a new
arched bridge connecting
the Platform with the
Cheyaur Road across the
Coast Channel have been
completed. The outlay
on these works was
Rs 10,157.

The important work Extension of East Coast
of extending the East Coast Canal northwards.

Canal northwards to Thiruv

palam has been advanced
by an expenditure of Rs

19,507. The Canal is now

open to the village of

Siddavaram $8\frac{1}{2}$ miles

from Madras. The new

portion was hardly com-

pleted when it was ex-

posed to the action of

some heavy floods which

came down in the latter

part of the South east

monsoon. The work how-

ever stood well and beyond

a little damage to the slopes

of the Canal suffered very little.

The Canal between

Negapatam and Tadaram

has been cleared to the proper

depth and all the masonry

Canal connecting

Negapatam with

Tadaram.

Madras Pier.

works have been virtually

completed. It is necessary

to mention however that

owing to the stoppage of

work on account of the

restricted state of the fin

ces the subsidiary channels

were left in an unfinished

state and the monsoon

has done considerable da-

mage. The banks were

breached in three or four

places and much deposit

brought into the Canal.

The latter has however, since

been removed. the expendi-

ture in 1869/70 was Rupees

30,251-5-50.

The damage done to the

Madras Pier in the year

1868, by the drifting on to

it of a sailing vessel has

now been rectified, and the

Pier is in working order.
The work consisted of
driving in piles, of bracing
and fixing these, of
laying girders across
them and of forming
a permanent wooden
platform. The expense
thereof was Rs 78,308.

Miscellaneous Public Improvement

The Miscellaneous Works
of Public Improvement
carried on during the past
year and demanding
attention here are the
same three which were
noticed in the Administra-
tion Report for 1868/69.
The Reclamation of the
swamp at the head of the
Ootacamund Lake, the

Reclamation of the Swamp at Ootacamund.

Trailer Supply of Ootacamund,
and the improvement of
the Navigation through
the Pamunim Channel.

The low lying ground
in the vicinity of the native
bazaars and some houses
occupied by Europeans at
the head of the Ootacamund
Lake have long been sub-
ject to inundation dur-
ing the monsoon and
the effect is most prej-
udicial to the general health
of the community. The
reclamation of the swamp,
therefore, is a matter of the
greatest necessity. The
intention is to raise the
entire inundated area to
the height of six inches
above the flood level of the
lake, and to utilize the

reclaimed ground for
public gardens and for
the general purposes of
amusement and recreation.
It is necessary to mention
that the labour of Con-
victs is made use of for
the work, which has con-
sisted during the past
year in constructing a
tramway on wooden sleep-
ers for the transport of the
earth in the erection of
a temporary jail for the
convicts and in earth
filling. The earth is re-
moved from a hill by
the side of the swamp
and is run in trucks
along the tramway and
finally shot over where
required. The expenditure
during the past year

Colacamund Water Supply.

was Rupees 4,827-6-9.
This important sani-
tarium having been
for so many years with-
out any regular supply
of water, two storage reser-
voirs and channels for
delivering a sufficient
supply were lately pro-
posed for execution. The
work to have made con-
siderable progress and
would indeed have been
completed if it had not
been that rock of the
hardest nature was met
with in their prosecution.
As it however one reservoir
embankment has been
raised 60 feet and the
other 20 feet in height
three miles of channels
are opened, 190 feet of

tunnelling four feet square
have been driven, and
various minor works
have been completed.

The total cost of these
improvements in 1869/70
has been Rs 5,979-14-4.

A great quantity of
debris has been removed
by hand dredging from
the inner angle of the
Pambem Reef Channel
and some stone has
been removed by blasting,
costing during the past
year Rs 7,968.

The Channel has also
been deepened with the view
to its having an ultimate
depth of 14 feet. This work
has cost Rs 2,465.

Pambem Channel.

The original Imperial
grant for Public Works in this
Presidency for 1869-70 was Rs 9,77,500
distributed as follows.

Military	12,00,000
Agricultural	12,00,000
Other Services	19,35,000
Establishments	17,89,280
Tools and Plant	70,000
	<u>97,75,000</u>

This assignment was
reduced by the Government of
India during the year on finan-
cial grounds by no less a sum

than Rs 15,70,000 and the following figures show how the grant under the various heads of Service were thereby affected.

Military	7,58,216
Agricultural	25,38,548
Other Services	28,56,436
Establishments	18,79,280
Tools and Plant	97,500
	<u>81,29,980</u>

The following Statement exhibits a comparison between the grant and outlay from Imperial Funds in the years 188-89 and 1889-90 respectively.

Head of Service

New Works
 Military
 Civil Buildings
 Agricultural
 Communications
 Mis. Pub. Supt.

Repairs
 Military
 Civil Buildings
 Agricultural
 Communications
 Mis. Pub. Supt.

Establishments
 Tools and Plant

Total

	1888-89		1889-90	
	Grant Rs.	Outlay Rs.	Grant Rs.	Outlay Rs.
New Works	10,18,400	11,08,498	5,72,989	5,63,626
	13,34,586	13,38,064	11,35,412	11,08,146
	15,72,370	13,50,025	14,44,204	12,01,484
	9,10,342	9,62,855	8,27,927	7,74,772
	60,150	56,583	1,32,826	1,32,753
	48,95,848	48,09,025	41,13,358	37,80,781
Repairs	1,81,700	1,88,262	1,85,227	1,83,110
	91,825	84,073	80,641	1,04,981
	10,75,000	11,58,267	10,94,344	10,72,519
	10,62,859	10,54,688	7,44,718	7,44,085
	10,314	7,778	4,912	4,763
Establishments	24,21,698	24,93,068	21,09,842	21,08,558
Tools and Plant	16,57,424	17,14,946	18,79,280	17,77,197
	72,400	18,60,74	97,500	83,758
Total	90,47,370	92,03,113	81,99,980	77,50,294

The following Statement exhibits the allotments and expenditure from

Real Funds.

1868-69		1869-70	
Grant	Outlay	Grant	Outlay
19,51,609	13,31,284	18,95,007	12,87,134
5,98,703	5,11,321	7,58,641	6,93,373
2,64,557	2,21,841	4,20,342	2,84,256
19,730	14,766	27,808	13,432
28,31,859	20,79,152	31,01,798	22,78,255

New Works

Repairs

Establishments

Tools and Plant

Military.

Bangalore. Race Course
Barracks.

The expectations which were held out in the Administration Report for 1869/70 that both the Pavilions forming the Hospital attached to these extensive Barracks would be completed in the following year have been fulfilled. The accommodation that is now provided for the sick is of a very superior kind, and, so far as the buildings are concerned, there is little left to desire for the comfort of the soldier. Both pavilions have been occupied since August last,

and

and as there is a complete set of Administrative Wards and out offices attached to them and every building has been designed according to the latest sanitary principles, the practical effect of the new establishment on the sick and convalescent will be watched with great interest. The expenditure during the past year has amounted to Rupees 32,786.

Every means moreover has been adopted to afford the soldier in these Barracks the facilities of recreation. Besides the racket courts and bowling alleys and swimming baths already constructed a handsome building

Recreation Room for
Privates and Sergeants
Mess House.

building, partly of brick and partly of stone, has been completed for the use of the men for purposes of amusement during the warmer hours of the day when out door games are abandoned. The building has been in occupation since the beginning of this year and the outlay on it has been 30,363 Rs.

School Room

As have the wants of education been neglected. A school house has been commenced and completed during the past year costing altogether Rs 10,642.

Besides the above works for the Cavalry a lavatory and urinal have been provided for the convenience of the prisoners in the Provost Cells.

4

The bakery which was commenced some years ago for supplying the entire garrison with bread has been completed so far as to admit of its being brought into use. It was originally intended to drive the machinery by bullock power but, as was anticipated, this was not found to answer. Since then it has been determined to use steam, but owing to financial pressure this portion of the work has been deferred for the present. The kneading is done by hand but the baking is done in ^{the new} ovens which are found to answer admirably. Bread is supplied to all the troops from day to day, and

Bangalore Bakery.

5 31

and the convenience of the bakery becomes more evident every day. The expenditure on the building during the past year has been Rs 5,699.8 annas, and the total expenditure up to date — 84,553.8 as.

Ulsoor Water Project.

A sum of Rs 21,097.8 has been laid out on the Ulsoor Water Project which has for its object the supplying of all the Barracks with water. The arrangements are not sufficiently complete ~~now~~ yet for a judgment to be formed of the benefits of the scheme. A Reservoir is required at the Infantry Barracks, and the filtering Cisterns are not yet in proper working order. At present water is supplied only

only to the Race Course
 and Horse Artillery Barracks
 and only for washing and
 bathing purposes. From
 analysis made in 1868
 it is feared that by no
 process of filtration can
 the water of the Tank be
 made fit for drinking
 or culinary purposes. It
 was found, however, that
 in a series of neighbouring
 wells, known by the name
 of the Dhobey Wells, an
 abundant and never failing
 supply of the very best
 water, requiring no filtra-
 tion was procurable, and
 these wells were accordingly
 purchased by the Govt
 and arrangements made for
 the erection of machinery
 to force the water to the
 barracks

Dhobey Wells
 Project.

barracks. The wells have
 all been improved and
 have been connected with
 each other, an Engine house
 has been erected and pumps
 have been set up. The
 plans and estimates for
 the delivery of the water
 to the Race Course are
 in course of preparation.
 The expenditure in 1869/70
 was Rupees 14,949-1-80

Mercara Palace. The roof of the Mercara
 Palace which was found
 so defective four years ago
 has now been thoroughly
 repaired and it is considered
 to be proof against the effects
 of the South West Monsoon
 which comes down with
 great violence in this
 part of the Country. The
 work has cost altogether

8
in Paper No. 4,027-6-9 P. of
in which Rs 10,007-4-3, were
expended in the past year.

At Adoor the extension
of the old stabling at the
Remount Depot has been
completed. The new block
of 72 stalls would also
have been completed but

for the stoppage of the work
last January in consequence
of reduction of the Budget
Grant. The roofless walls
being partly of brick and
clay will probably suffer
in consequence of the work
being unavoidably sus-

pended. The expenditure
on these works during the
past year has been Rs
11,251-13-10, and the total
expenditure Rs 18,786-1-20.

The

Adoor Stables.

3

Bellary.

9 11
The importance of
Cantonment Water Supply. this work is a station which
has always a scanty rainfall
and is often subjected to
actual drought necessitates
its early completion. The
object of the project is the
interception of the drainage
of some hills in the vicinity
of the station and its col-
lection in a reservoir for
after use. The weir & supply
channel to the station have
been completed, and the
Tank will soon be in a
fit state to receive water.
The foundations of the head
sluice to regulate the supply
have been laid down, and
the work is in fair progress.
The sum of Rs 11,921 has been
spent during the past year
making

making a total expenditure
on the works of Rs 53,725,
and leaving a balance on
the estimate of Rs 15,675
to complete the undertaking.

Fair progress has been
made with the Lock Hoopl.
on which a sum of Rs 5,500
has been expended in the
past year. The walls have
been raised to the full
height and are now ready
for the roof. Several other
buildings have also been
pushed on with. Two
new double latrines for the
convenience of the 3/60th
Rifles are about one-third
completed and a beginning
has been made with the
Female Hoopl. for European
troops on which 16,434
Rs have been expended.

the

Bellary Lock Hospital.

the walls having been raised
to the height of the tops of
the doors.

Native Hospital. The Hoopl. for Native
troops on which 21,199 Rs
have been spent during
the past year and 41,999 Rs
altogether, has been sufficiently
advanced to admit of its
occupation, but a small
sum is still required for
its completion. It affords
accommodation for 48 sick,
having two wings each
containing 24 beds.

Lightning Conductors

The exposure of the
Barracks on the Sanitarium
of Ramandroog, to the effects
of lightning has rendered the
construction of Conductors
to the buildings necessary,
but before the work could
be

be

12
or he completed it was ordered
to be stopped on account
of the financial pressure.
However two buildings have
been protected and a third
partly so, the total outlay
having been Rs 1586.

The additions and
improvements to the Hoopl
at Ramandroog have been
nearly completed and other
minor works to the value
of 19,486 Rs have been
carried out.

There have not been
many important military
works carried out during
the past year at the
Presidency town. The fami
lies occupying the newly
built quarters on the north
Esplanade of Fort Saint
George have been supplied
with

Madras.

Water supply to Family
Quarters, Esplanade

Racket and Fives
Courts

Drainage of Infantry
Lines at Royapuram.

13 13
with water, and the work
of planting trees to shelter
the occupants from the effects
of the sun has been completed.
On these works 10,638 Rs
have been spent during
the past year and 43,360
Rupees altogether.

On the Racket
and Fives Court for the use
of the garrison in the Fort
which were completed in 1868
a sum of Rs 2185 was ex-
pended during the past year
in order to close and adjust
the accounts. The Courts are
in daily use and are a great
means of recreation to the
troops.

The defective state of the
drainage of the new Native
Infantry Lines at Royapuram
will soon be rectified. The
new

new drains are nearly com-
 pleted and have given
 general satisfaction. Rs
 9,077 have been expended
 on this work in the past
 year and 3,058 Rs altogether.
 Excepting the above
 work there is only one other
 at Madras which demands
 notice. The Subaltern's Quar-
 ters in the late Civil
 Auditor's Office have been
 extended and nearly com-
 pleted. The estimate is
 8,400 Rs and 3,885 Rs
 have been spent in the
 past year, leaving a
 balance for adjustment
 of Rs 4,515.

At St. Thomas' Mount
 considerable progress has
 been made with the new
 Barracks, but the effect of
 the

Subaltern's Quarters
 in the late Civil
 Auditor's Office, Fort.

St. Thomas' Mount
 New Barracks

the curtailed allotment of
 funds since last January
 has rendered the prosecu-
 tion of the work rather
 slow. The walls of the lower
 story of one block are com-
 pleted and the terracing
 is in course of construction.
 The walls of the second block
 are not quite so far advanced,
 and those of the third are
 on an average about 10 feet
 above the plinth. The
 expenditure up to the end
 of the previous year was
 43,000 Rs and in this year
 it has reached Rs 47,806 making
 a total on all the Barracks
 of Rs 90,806.

The want of funds has
 prevented the completion
 of the out houses to the
 Reserve Powder Magazine.

but the work is in an
advanced state. Two covered
Sentry walks, the Packing
Shed, the Sergeants' Quarters
on ~~the~~ and the Guard Room
are virtually finished, but
the Guard Room is in
a backward state. The
expenditure during the
past year has been Rs
3096 and the total ex-
penditure is 8096 Rs.

Besides the above
work at St Thomas'
Mount six Latrines have
been completed for the use
of the Barracks during
the past year at a total
of cost of Rs 9,539 of which
Rs 8,232 were expended
in 1869/70. These latrines
are on the dry earth sys-
tem and are provided
with

Latrines

Polacamund
Lawrence Bungalow.

with self-acting apparatus,
which appear at present to
answer very well. The
conservancy of all the build-
ings occupied by European
troops at this station is
now conducted on this
principle, no water being
used in any of the latrines.

During the past
year considerable progress
has been made with this
important work which is
to provide accommodation
for 400 boys and 300 girls.
The following buildings
forming part of the esta-
blishment have been
completed. The Work Shop,
the Servants Quarters with
Latrines and Cook rooms, the
West Wing and North Wing
Dormitories, the Principals'
Quarters

Quarters, the Cook-room
attached to the East Ward
Dormitories, the Wash-house
Cook-room and Latrine
of the Female Asylum,
seven Blocks of Police
Lines, Temporary Jail
to accommodate 500 con-
victs and Apothecaries
Quarters, the Hospital
and Engineer's Workshop.
The following buildings
are drawing towards completion:-

The School Room
and covered Play Ground,
the Library, Main Tower,
Dining Hall and Store Rooms,
East Ward Dormitories and
Master's Quarters and the
Latrine and Wash-house
attached thereto.

Civil Buildings

Talook Cutcherries
with Subsidiary Jails
attached.

The want of pro-
per accommodation for the
establishments attached to
the talooks in several
districts has rendered the
construction of numerous
Cutcherries and Subsidiary
Jails necessary. These build-
ings were in fair progress
under special grants but
these ^{grants} having been discon-
tinued very unexpectedly,
the buildings have in
most cases either been
~~proceeded with~~ ^{proceeded with} ~~continued~~ slowly under
allotments from the regular
Budget or been stopped
altogether. The talook

Cutcherry and Subsidary Jail at Sidhout in the Cuddapah District has had Rs 11,240 expended on it during the past year and is almost completed. Another building of the same kind at Trivellore on which Rs 1210 have been spent during the past year and Rs 23,210 altogether is nearly ready for occupation. The Cutcherry and Jail at Ahtoor in the Salem District is in a forward state and the same may be said of that at Ramankul in the above district. The exposure of these works in an incomplete state to the monsoons cannot fail to cause them damage but this under the circumstances is

is unavoidable. The Subsidary Jail at Trallajahpett would have been completed but for the curtailment of the allotment of funds originally granted for the work as it is however it requires little to render it fit for use. Rs 1489 have been laid out on it. Another work which has suffered in the same way from want of money is the Subsidary Jail at Arcanum on which out of an original grant of Rs 4180 only Rs 1490 could be availed of. The other Talook Cutcheries and Jails on which large sums have been expended are in the Malabar and Coimbatore Districts they

they are all in a forward state and might have been nearly completed but for the want of funds. The following is the expenditure on these works during the past year.

Chungerry Cutcherry	Rs. 10,400 - 10 - 6
Sellicherry Do	12,600 - - -
Darapuram Do	9,345 - 3 - 1
Errode Do	12,967 - 2 - 6
Pollachy Do	9,255 - 10 - 9
Podampetta Do	6,761 - 2 - 5

The improvement of the existing District Jails and the provision of additional accommodation for prisoners in large new Central and District Jails have been proceeded with as vigorously during the past year as the limitation of expenditure would allow.

The

Central and District Jails.

The Central Jail at Rajahmundry on which already Rs 3,21,957 have been expended and which is estimated to cost Rs 3,53,263 Rs. has been advanced during the past year by the outlay of Rs 19,026. a large latrine & bathing cistern for females, the Constables huts and three Quarters for European Head Constables are completed. Eighteen Warder's huts are ready to be tiled, the Chief Warder's house is nearly ready for occupation, the walls of the office and Store Room have been raised to the full height and a well 69 feet deep has been sunk near the Constables huts. The work was stopped for want of funds.

Rupers 19, 64.2 have been laid out in improving the old Jail at Bellary. This expenditure added to that previously incurred makes a total sum of Rs 55,081. All the principal buildings are completed, but a modification in the plan has lately been suggested, and the decision on this is now awaited.

Seven Juvenile wards have been added to the Penitentiary at Madras which has further been improved by the addition of three latrines, six solitary cells, several under-trial wards, a latrine for females, Female Bar racks, and a contagious

disease ward. These works have cost during the past year Rs 39,980 and will give increased accommodation and enable the Jail authorities to separate and classify the different sexes and grades of prisoners which could not hitherto be done owing to the crowded state of the old Jail.

Great progress, moreover has been made with the central Jail at Vellore on which Rs 96,213 have been expended in 1869/70.

Five of the main wards are already occupied by the convicts and most

most of the interior
buildings are completed.
Convict labour has
been made use of to
a considerable extent
in brick & masonry
building and Carpentry,
but it has not proved
remunerative, chiefly
on account of the
large cost incurred
in Superintending
and guarding the
prisoners.

The

chiefly ~~catching and sub-~~
~~sidary jails in the Trich-~~
~~opoly and Bangalore districts~~
~~which are in little need~~
~~liable to deteriorate from~~
~~the suspension of operations~~
~~there~~. The largest expen-
-diture on jails in ^{the south} ~~this part~~
of the country was incurred
at Trichinopoly on the
Central Jail. This work
has cost altogether up to
the present Rs 3,49,650
of which Rs 91,334 ¹⁰/₁₀₀ is
the amount laid out in
1869/70. Excepting the fol-
-lowing buildings which
are nearly all either on
the point of completion
or in a forward state
the Jail is ready for
occupation

occupation, Quarantine
wards, Latrine, Male-wards,
Solitary Cells, Work-sheds,
Matrons' Quarters and
Central Tower.

The only important
works of this class which
have been carried on dur-
ing the past year in
the Western Coast districts
are the Central Jail at
Cannanore and the
District Jail at Calicut.
The expenditure on the
former was Rs 57,260-0-10
and on the latter Rs 57,79-10-0. About two-
thirds of the work in
connection with the Can-
nannore Central Jail
is completed and materials
are ready to continue
operations.

The

The object of the Jail
at Calicut was to provide
a building capable of con-
taining the average
number of convicts usually
under sentence at this
station without over-
crowding them. The old
Jail was too small, badly
situated and, moreover,
very unhealthy at certain
seasons. The work done
in 1869/70 consisted in
the erection of two Work-
sheds for intramural
labour, one large Cook-
house for all castes and
cisterns to the wells and
in the flooring of the Store
Room with asphalt. The
Jail was finally handed
over to the Inspector General
last November.

Lunatic Asylums

Of the four new Lunatic Asylums in course of erection in the Presidency, the first to be noticed is the one being built at Vizagapatam to contain 200 patients.

A sum of Rs 28,157 has been expended in the past year on the Lunatic Asylum at Vallur the total expenditure now being Rs 43,157.

The Workshops for both males and females, the Cook houses and Privies, the Dispensary and Deputy Superintendents quarters, five cottages for males and four for criminals and the Hospital are ^{virtually} completed. The Superintendents office is in a very forward state. This work is among those which were suspended in consequence of the Public Works

Work allotment having been curtailed.

The Asylum at Madras has been advanced by the expenditure during the past year of Rs 60,368. The total expenditure has now reached Rs 1,97,221 and the buildings as originally laid out are nearly all completed and will be ready for the reception of their inmates as soon as some necessary additions are supplied.

This establishment is arranged to give effect to the modern system of treatment which is based upon the principle of allowing the unfortunate class of people for whom it is intended the utmost amount of liberty consistent with safety. It is well situated in a retired suburb of the town in ground which a few years ago formed an extensive private domain and the inmates will have good cause to thank the Govt for its beneficent intentions which have been adapted for the purpose to which they are to be applied.

The only other work of this class which was carried on in the Presidency during 1869/70 is the Lunatic Asylum at Calicut on which Rs 12 612-0-4 were spent, making a total expenditure of Rs 22,549-9-5. This work has been rendered necessary ^{by} the want of a place where lunatics might be confined and carefully looked after. The Buildings, as at Madras, are arranged on the Cottage system, viz. of these Cottages for males and three for criminal lunatics being already completed with Hospital, Superintendent's Quarters, and out-houses attached.

Little remains to be done to but the construction of the walls to enclose the cottages in separate plots. This work was suspended in consequence of the original grant of money for the work being subsequently curtailed.

There are numerous other Civil Buildings on which progress has been made during the past year. A Civil Court House at Bellary (expenditure Rs. 14,999) was commenced and pushed on with as far as the funds would admit of. The walls of the lower story have been run up to the full height and are now ready for the terracing. The verandah is in a fit state to

24
to be roofed in.

At the Presidency
toward the Revenue Board
Office has been considerably
advanced with an outlay
of Rs. 50,000. The additions
to the lower and upper
story and the verandahs
on the north and west
faces are nearly completed.
The other verandahs are
in a forward state. At
present the Revenue
Board, the Revenue Settle-
ment and the Revenue
Survey Departments are
inconveniently crowded,
and the object of these
additions and improve-
ments is to afford them
better accommodation which
has already been partially
secured although the
works

The Presidency College.

35 17 34
works are not yet quite
completed. The entire build-
ing will present a most
striking appearance when
finished. It is in the
Hindoo Mahomedan style,
a style it would have been
impossible to carry out
in any material more
coolly than ^{stucco} ~~stone~~ which
is so easily moulded to
any form. It harmonizes
well with the landscape,
affords great variety of
colour and appeals par-
ticularly to the sym-
-thies of the people.

The Presidency College
which was opened by Her
Royal Highness the Duke
of Edinburgh during his
short stay in Madras

is virtually ready for occupation. All that remains to be done is the completion of the Central Tower which will not take long. This College will be one of the most important architectural features in the line of buildings which stretches along the shore and will it is hoped do something towards removing the monotonous effect which is produced by the adoption of the single style (if such it can be called) which prevails all the other buildings facing the sea. It may be looked upon as the first modern architectural building where the natural surfaces of the

materials have been exposed to view. The materials are Sholinghur granite (a light grey stone), Cuddasah limestone (dark blue) and red brick. The style Italian Renaissance freely treated is in some respects peculiarly adapted to the country. The forms of the windows are admirably suited to the variety of openings and prevent almost as great a variety as the Gothic. The materials moreover can be thrown roughly together without the excessive neatness and refinement indispensable in classical art. In spite of all the cases that have been taken with the forms and proportions, the want of sculpture is

38
evident to the experienced eye
to relieve the building of
its somewhat cold and
unfinished appearance.
It is only fair to add that
in the absence of everything
in the shape of a tree near
the College it is difficult
at present to say what may
be the ultimate effect of the
building. The superior ac-
commodation of this Insti-
tution, the excellent arrange-
ments of the rooms, and
its exposure to the bene-
ficial influence of the
sea breeze cannot fail
however to produce impor-
tant effects in the conduct
of education. The expenditure
in 1869/70 was Rs 35,090
and the total expenditure
has reached the sum of

6
Leprosy Hospital
at Madras.

Senate House.

39
Superior 2.4.6.1/75
The new wards which
were much required to the
Leprosy Hosp. in Madras have
been completed and ~~opened~~
~~last~~. They add considera-
bly to the convenience of
the Institution which has
now become one of the most
useful in the Presidency
town. Rs 3393 were expended
in the past year and the
total sum laid out now
amounts to Rs 34,968 the
estimate being 35,320 Rupees.
It beginning has been
made with the new Senate
House which stands not far
from the Revenue Board
Office but is nearer the sea.
This when completed will be
another among the handsome
buildings

buildings which are being added
to the town. At present only
the foundations have been
laid out at a cost of Rs
18,152, and it is therefore
impossible to judge what
the effect will be, but the
work has been designed
with the greatest care
with the view to secure
both comfort and archi-
tectural effect. The
general forms of the building
will be Byzantine but the
attempt has been made
to infuse as much of the
Hindoo Mahomedan style
into them as possible, so
that the Senate House may
harmonize to some extent
with the other buildings
in the neighbourhood. As
a work of art, the Senate

Court House
at Bangalore.

Sulicorin
Telegraph Office.

House may be considered
as the highest effort yet
made in this Presidency
to design a building to
accord with the feelings
and sympathies of the people.
At Bangalore the new
Court House has been
nearly completed and would
have been quite so but for
the curtailment of funds.
Little remains to be done
excepting some superficial
work to the walls and
the tiling of the roof. The
outlay during 1869/70
was Rs 20,153. 8. 50 and
the total sum spent is
Rs 46,619. 7. 10.

At the sea coast town
of Sulicorin in the South
of the Presidency, where
the

as the want has been felt
to considerably a new Tele-
graph Office at a cost
of Rs 14,360, has been
commenced and com-
pleted. The structure
is of sand stone pointed
with Chunar, and
was much as it con-
tains accommodation
for both the officer in
charge who lives in it
and for the daily use
of the establishment, it
is as complete as could
be devised.

Agricultural

Godavery

In this District
no works, which had not
been in progress the pre-
ceding year, were under-
taken, and the improve-
ment of this system of
irrigation has unfortunately
been retarded by the back-
ward state of the estimate
and design, which must be
completed and sanctioned
before the works can be
pushed on properly; the
officers who are alone avail-
able for this duty having
had their time much occu-
pied with current duties
delay has been inevitable,
and it is uncertain when
the

the estimates will be finished. The principal work is in progress, with the expenditure upon them, are as follows:-

Description	Estimated Rupees	Expenditure of the year	Total expenditure
Widening and improving Samalcotta Canal	1,31,200	26,146	1,10,954
Improvements to Akeed Canal	1,03,234	7,734	98,965
Widening Gannavaram aqueduct	20,500	4,388	14,038
Extension of Irrigation Interim Delta	Done	46,509	63,761
Extension of Irrigation under Ellore Canal	Done	27,637	56,531

The Samalcotta Canal is one of the principal lines of navigation, and it irrigates about 20,000 acres of land, the navigation which was very defective has

59
has been much improved, and the arrangements for the distribution of water to the fields have been modified with a view to reduce the waste which had been found to be very great. This Canal will shortly be completed.

The improvements to the Akeed Canal are nearly finished, and it is reported that they have resulted in an increased 2,073 acres of irrigation, and of Rupees 11,304 of Revenue. A larger increase may be expected next year.

The widening of the Gannavaram aqueduct, by which a large irrigation channel crosses a branch of the Godavary, has been

nearly finished, the work having been executed much under the estimated cost:

The work done in the Western Delta is only a beginning of the some-what extensive improvements required, which are to provide for the extension of irrigation, the provision of drainage towards which little had been done, the substitution of permanent locks on the navigation canals for the temporary locks which were constructed in the first instance, and many minor works which experience has shown to be necessary. With

Kistna

To
With one or two exceptions the details have been settled and the estimates are under preparation.

On the Masulipatam or Eastern side of the Kistna Delta the following were the considerable works in progress with the expenditure thereon.

Description	Estimate Rupees	Expenditure of the year	Total expenditure
Enlargement of channels Masulipatam section	1,83,000	21,547	98,859
Irrigation channels on the west side of Masulipatam Canal	49,860	6,734	38,625
Tridenting head of Masulipatam and Muni Canal.	20,080	1655	13,323
Ryvis Canal.	4,12,210	36,513	80,864

Some of the works made such progress as would have been desirable. There is considerable difficulty in

in carrying out improvements, owing to the channels having to carry water for the cultivation for the greater part of the year, and, when the canals are dry, there is a great demand for labour for ordinary repairs. A glance at the expenditure column will show that this part of the Delta was practically in much the same state at the end of the year as at the beginning.

Similar particulars for the western section of the Delta are subjoined.

Description

Description	Estimate Rupees	Expenditure of the year	Total expenditure
Side Channels Doogarala to Nilgafatam Extension of the Comma- -moor Channel	56,746	11,026	67,772
Western Bank Channel	1,95,770	17,023	2,12,793
Enlarging main Canal.	1,46,479	17,679	1,64,158
	2,98,995	45,728	3,44,723

The first work has been very nearly completed. The work on the Comma-
-moor Channel has been deferred until it shall have been decided what is to be done to complete the irrigation system in this part of the Delta. The estimate for the western Bank Channel has been somewhat executed, but it is reported that the work has been very satisfactorily executed, and that

that much new land
has been brought under
irrigation. The enlarge-
ment of the main canal
made little or no progress,
this is stated to have been
due to the long period
during which water was
in the channel. It is
however considered that
arrangements might be
made for concentrating
labour on this channel
during the short time
work can be pushed
forward: and everything
that can be done should
be looked to for until
the widening is effected,
any considerable exten-
sion of irrigation will
be

Sellore.

12
be out of the question, and
there have been already
several rather large de-
mands made for water.

The only work of
any considerable im-
portance, which was in
progress in this district
during the year, was the
Suvapully Channel and
its branches. The additional
area intended to be irrigated
by this channel is acres
25,500 and already a con-
siderable extension of
irrigation has taken place.
The estimated cost of the
work is Rs 4,12,100 the
outlay during the year is
Rupees 59,998, and the
total expenditure Rupees
1,88,822 so that considerable

progress has been made, though this progress was not as satisfactory for the years under review as in the preceding years.

A large part of the time and attention of the members of the P. W. Dept. in the above Districts is occupied with the maintenance of existing works, and there cannot be dwell upon in a report of this nature.

In the Cuddapah and Kurnool Districts the expenditure on Irrigation works was confined to repairs. In Bellary four works of improvement were partially carried out; the principal

Cuddapah
Kurnool
Bellary

Madras

⁶³
principal one being the restoration of the Goolloor Tank, at an estimated cost of Rupees 60,500. the expenditure during the year was Rs 8,476 and up to the close of the year Rs 4,3523. The sudden stoppage of expenditure affected this work, but greater progress might reasonably have been expected before that event occurred.

In this District some important works commenced in previous years were carried forward and of these the principal were the Madras water supply project, the Chembraimbanam Tank enlargement, & the Talloor Anicut.

The first included an
anicut across the Kortliar
a supply channel to the
Cholavaram Tank, the
depth of which is to be
increased 15 ft. and thence
a channel to the Red
Hills Lake, which also
is to be deepened by rais-
ing its bank 15 feet.
These works made suffi-
cient progress during the
earlier part of the year
to allow of a large quan-
tity of water being taken
from the river and stored
in the Tanks; and as
the S. E. monsoon in
their neighbourhood al-
most entirely failed, the value
of the new arrangements
was made evident for the
fields

64
fields were fully cultivated
whereas but for the im-
provements there could
have been no water. The
expenditure of the year was
Rupees 2,42,247, and the
total expenditure 8,45,323 Rs.
against an original estimate
of Rupees 6,41,759. A revised
estimate amounting to Rs.
10,39,175 has been submitted
for sanction. The improv-
ment of the Chembaram
bankam Tank was origi-
nally sanctioned for ex-
ecution from Loan Funds,
but, doubts of its remunera-
tiveness having been raised,
it is now being carried on
from the ordinary grant,
and it is under consideration
whether it will not be ad-
visable to limit the increased

depth to 6 feet whereby the
a capacity will be augmented
a from 55.60 to 102.91 mil-
lions of cubic yards, in-
stead of to 196.87 millions
as at first intended. The
water supply is dependent
entirely on the S. E.
monsoon, and the river,
the source whence the sup-
ply channel is taken off,
has of late years contained
so little water, that it is
very uncertain whether
a reservoir of the larger
size could be filled suf-
ficiently regularly to com-
pensate for the large out-
lay required. The expen-
diture of the year was
Rupees 93,800 and that
up to the close of the

South Arcot.

65
year Rs 1,98,543. The
Falloor Anicut was com-
menced in 1868/69, and
the works were carried
forward as far as the
funds available would
allow. The estimate is
Rs 36,000 the expenditure
of the year Rs 7,725 and
the total outlay Rs 29,975.
No increase of revenue has
as yet been obtained.
A revised estimate amounting
to Rs 40,925 was sanctioned
for this Anicut shortly
after the close of the year.
difficulties with the foun-
dations caused increase
of expense.

The extension of the
channels on the South
side of the Cheyarr, which
are

are commenced in the pre-
vious year ^{on} an estimate amounting
to Rs 47,600 was carried
on this year so far as the
allotments available would
admit; and the outlay was
Rs 12,491, that of the
former year being Rs 19,999. There were no
floods in the river of any
duration, and the extended
channels consequently re-
ceived no water.

Some minor but useful
works were carried out
in this District during
the year under review,
but they were of an ordinary
kind and call for no spe-
cial notice.

The progress of irrigation
works in this District

South Arcot

was materially affected
by the sudden with-
drawal of funds in De-
cember. The improvement
of the Allauzal Channel,
which was up to that time
in progress on an estimate
amounting to Rs 12,620
was so far advanced, at
an outlay of 3,688 during
the year, as to fully supply
the largest Tank connected
with it. On the Inehimitor
Anicut across the Inanimi
thanadi, Rs 12,537 were
spent in 1868/69, and
2,127 in 1869/70. The
anicut is nearly finished
but the channels were
stopped just when a few
months more work would have
made them of material use.

Out of an estimate of Rs
a 45,400 for the Bombay
a channel from the northern
b end of the Poaniar Amicut,
d Rs 45,388 had been expended
to the close of the year of
a which Rs 4,229 were the
outlay of the year. The
benefit derived from the
channel is reported to
have been very great;
all the tanks dependent
upon it received a good
supply of water, and the
Bombay river also received,
through it a large quantity
of water thereby benefitting
much the tanks under
that river.

In Salem no irrigation
works of any importance
were undertaken.

In

Salem.

Sanjore

In Sanjore the regu-
lating works for the im-
provement of the Cauvery
were proceeded with, but
the progress made was
not altogether satisfactory
as out of an allotment
of Rs 24,700 from Loan
Funds, only Rs 2,446
were spent; Rs 17,899
being relinquished, and
4,355 left unspent. The
local funds are however
contributed to the extent
of Rs 34,300 to the bridges
connected with the regulators,
and Rs 30,061 were ex-
pended from this source.
The result of the works is
reported to be excellent,
and partly owing to the
improvement of the dis-
tribution which they

effected, and partly to a good season, the Canvry at Combaconum contained water up to nearly two months later than has been usual.

In this District which lies immediately to the west of Tanjore and is irrigated to a considerable extent from the Canvry, no new works of magnitude were in progress during the year under review.

Lake St Lawrence on the Seilgherries is the first tank or reservoir of considerable size of which the construction has been attempted by

Trichinopoly.

Seilgherries

68
excavating and depositing the soil for the bund by the agency of running water. Mr. McDvor, the Superintendent of the Botanical gardens, by whom the work was undertaken, has had considerable difficulties to contend with, owing partly to the nature of the site, and partly to his being without experience of the requirements of works of this class. But the occurrence of the freshes in June last the earth works of the dam were topped by the water and swept away; and the masonry culvert under the bund has been found to be too weak for safety, and it has been decided

to close it. The progress made
in raising the earthen dam
has fallen short of Mr.
McIvor's anticipation,
and at the close of the
year under review con-
siderably less than one
third of the intended
height had been attained.

It appears therefore to be
doubtful whether it will
be found practicable
to secure the work from
destruction during the next
season's freshes, as this can
be done only by providing
an ample escape for the
surplus water. The original
estimate for this reservoir
was Rs 25,000, the revised
estimate amounts to Rs
35,000 the expenditure of
the year was Rs 19,000

Guinevelly

and the total expenditure
Rupees 32,000.

The Strengimuttam
Ancient works on the Tam-
brapoorney, the principal
River of the District and
one which, taking its rise
in the western Ghats,
always carries during the
S. W. monsoon a large
supply of water, continued
in this year to make very
satisfactory progress. In
1868/69 Rs 104,469 were
expended, and in 1869/70
the outlay
amounted to Rs 3,14,847
it would have been still
larger but for an unusual
flood in the river in
November, by which the
country was inundated,
and extensive injuries

inflicted on almost all the
old irrigation works con-
-nected with the river.
The Striviguntum Anicut
itself suffered no damage,
but the river broke up
into the main channels
on either side and occa-
-sioned many breaches
besides bringing in a great
deal of silt. The masonry
generally sustained but
little damage. The re-
-moval of damaged work
is estimated to cost Rs
31,974, and the loss of ma-
-terials but to Rs 10 is calcu-
-lated to be Rs 4,259. It
is not anticipated that
any excess over the original
estimate will be caused
by the necessity for meeting
this additional outlay.

Investigations.

In Ganjam the
investigations regarding
the capabilities of the
Rorah, Roolia and Ina-
hannaddy were so far
advanced as to admit of
estimates being submitted,
but it was found that
the character of the water
supply of these rivers was
not such as to admit of
direct irrigation from
canals without the as-
-sistance of reservoirs. Ac-
-cordingly further inves-
-tigations are in progress
for ascertaining where
water can be stored, and
at what cost. The estimates
received provided for the
irrigation of 14,000 acres,
and they amounted to

nearly Rupees twelve lakhs
exclusive of superintendence.
When revised they will be
likely made to exceed this
amount. The returns will
be derived from 120,000
acres of improved cultiva-
tion at present badly
supplied, and from a
comparatively small area
of new irrigation. The
project is at present not
very promising.

In the Godavery the
estimates for the improve-
ment and completion
of the irrigation and
navigation in the Delta
have not been as yet
completed, and indeed
those for the Central Delta
are hardly commenced. The
Staff of Officers has not

sufficed for the satisfac-
tory management of the
work upon which the
existing irrigation depends,
and it is not surprising
therefore that estimates
and designs for improve-
ments on a large scale
should be still incom-
plete. It is much to be
regretted that the officers
who have been employed
for a long period in the
Delta, and who are tho-
roughly acquainted with
its wants could not be
relieved for a time of cur-
rent duties, and enabled
to get the estimates ready.
As it is, many works ur-
gently needed will not
be commenced until
after the lapse of another

season. Drainage works are especially required, not only to render cultivation in some parts possible, but to prevent the public health from suffering; fever has been prevalent of late, and it appears to be attributable to stagnant water.

Somewhat similar remarks apply to the Ristna Delta, though here no fever has as yet shown itself. The preparation of projects for making the works in the two sections of the Delta complete & efficient, demands much labour and thought, and when officers have pressing calls upon their time

72
and attention in connection with their current duties, it is hopeless to expect any considerable progress with additional work. It would be altogether far more satisfactory and more economical were experienced officers appointed to attend for a time solely to the designs and estimates of the works still required. A few days spent now and then by a Range Officer are practically of no use he finds his data imperfect, and difficulties at every step, and, before he can get matters in train, he is obliged to put this work aside, and attend to his

a ordinary duties.

The investigations
in connection with the
Sungam project in Bellare
offer a remarkable con-
-trast to those in the
Dellav of the Goitavary
and Tholna. Here a spe-
-cial and competent
officer has been employed,
and the result has been
the submission of a pro-
-ject which is complete
and intelligible. It
provides for the irrigation
of 94,000 acres, of which
about one half is at pre-
-sent more or less sup-
-plied from existing
works. The estimated
amount is Rupees 26,83,800
and include establish-
-ments, compensation for

73
land &c. With some
modifications of details
the work may probably
be carried out for 35 lacs,
and the expected returns
are between 9 and 10 per
cent, after providing for
maintenance, conservancy
establishments, and all
expenses.

In South Arcot the
Palandorai project for the
irrigation of about 16,651
acres from the Vellur
was completed, and it
has since been sanctioned.
The estimated amount is
Rs 1,98,235, and it is
calculated that the re-
turns will ultimately
reach 25 per cent on
this amount.

In

In Tanjore the projects for the regulation of the Pennar, the first great branch of the Cauvery, as also for shutting out flood waters from the Cauvery below the Grand Anicut have been completed. The former has been submitted for the sanction of the Government of India: the estimate amount to Rs 1,99,450, and the area interested in the improvements proposed is 330,681 acres. The Cauvery project is under consideration with a view to determine the best way of securing the required regulation at the Grand Anicut; the arrangement estimated for being open to some objection.

Peryanor or great river

In Madurai the Peryanor project for diverting the waters of the river of that name from their natural outfall westward into the Sooroolay and Vagai, which run eastward to the Bay of Bengal, has been vigorously proceeded with. The investigations on the hills have been very nearly completed, and those in the plains would have by this time, ^{now} nearly, if not quite, finished, had not the two senior officers employed been knocked up by fevers and exposure, one had had to proceed to England, and the other has been withdrawn to

to a better climate and
lighter work: the officer
who has recently com-
pleted the Tungum scheme
in Bellare has been ap-
pointed to complete the
project, but he is new
to the country, and it
will take him some
time to make a fair start.

In Tinnevely some
advance has been made in
investigating the capabilities
of the Tambrapourmy, but
the officer charged with this
duty was withdrawn tem-
porarily ere much had
been done, to assist in
restoring the works da-
maged by floods in
November, and afterwards
it was found necessary
to

56
to place him in charge of
the Division as Sup-
Engineer. It will pro-
bably be a long time
before another officer
will be available for
this work. In the extreme
South a young Assistant
Engineer is engaged upon
the examination of some
river streams: no report
has hitherto been submitted
to shew the result of his
investigations.

P.W.
Paw. 15 Dec 70 at 30523

P.W.
From 15 Dec 70 at 30523

S.W.
Dec. 15 - Dec 770 at 3052-3

is In the Coimbatore
or District investigations,
in having for their object
the determination of the
best sites of storing the
flood waters of some of
the affluents of the Cauvery,
were commenced in
December 1869, on the
return of an officer, who
had been selected for this
duty, from England. At
the close of the year, the
reduction of establishment
ordered by the Govt. of
India necessitated the
abandonment of this
enquiry, just as the staff
employed were beginning
to get acquainted with the
country. This scheme,
like many others, has

been taken up and then
dropped over and over
again; and yet there
can be no doubt that
it is well worthy of
being thoroughly and
conclusively examined
into, for upon the infor-
-mation obtained the
improvement and ex-
-tension of irrigation
in Coimbatore, Salem
and Trichinopoly depend
as also the settlement
of the question whether
the great area of irrigation
in Tanjore can be se-
-cured against the risks
to which it is exposed
by the frequent failure
of the water supply in
the interval between
the two monsoons.

88

Establishment

Total

By Public By Officers By Officers and
wards Officers Per. Dep't Educational Dist. by Grants

Total outlay
flow,

[illegible][illegible]

88

Establishment

Total

all Funds

all Funds

250 a
777
172.00

250 a
777
172.00

O District Road. Vs. Friends

Establishment

Total

By Public By Officers By Officers and
boards Officers of this of this plan!

Total outlay
\$1000.

all Fund

any am
high of at am
"clavery"
disturb
tellere
disapolo
curiool
cellary
residency
plephur
th arab
th arab
hem
note
hinepoly
batore
ghertis
alabar
th Cau as a
dur a
evening

Tota

General Fund

[illegible]

৩৭

1689:

16692

75

88

Establishment

Total

[illegible][illegible]

Settled out
- slow,

all Fund

Calcutta
 Bazarapatana
 Godavery
 Kistna
 Bellare
 Gundapole
 Thurnool
 Bellary
 Presidency
 Bangalore
 North Arcot
 South Arcot
 Salem
 Tanjore
 Trichinopoly
 Coimbatore
 Kailgheries
 Malabar
 South Canara
 Madras
 Ponnacilly

Tota

O'Donoghue Road, Vero Beach

London Budget Heads during the 1869/70

Establishment

Civil Buildings	Agricultural	Communications	Miscellaneous
			Public Improvements

Total

By Public	By Officers	By Officers and of the	Total out
Wards Officers	Res. Departt. Educational	Wards	
10/6/85	10/6/85	10/6/85	10/6/85
			10/6/85

Flow,

all Fund.

Gauram
 Vizagapatam
 Godavery
 Kistna
 Bellare
 Gunderapalle
 Kurunool
 Bellary
 Presidency
 Chingleput
 North Arcot
 South Arcot
 Salem
 Tanjore
 Trincomopoly
 Coimbatore
 Kilgherrie
 Malabar
 South Canara
 Madras
 Pinnerelly

Total

4.670 2160

150 4669 4670

[illegible]

88

Total

By Public	By Officers	By Officers of this	and	Total out
Books Officers	Res. Depots	Educational	Gifts by	Grand
10 per cent	10 per cent	10 per cent	Grand	Grand

all Funds

Gairam
 Vizapatam
 Go downy
 Kistack
 Kellare
 Kudapole
 Kurrool
 Bellary
 Presidency
 Bangalore
 North coast
 South coast
 Salem
 Tanjore
 Krishnapoly
 Coimbatore
 Kiltgherries
 Malabar
 South Canara
 Madurai
 Tirunelveli

75

707

707

6357b 637b

7110.

6376

73

7 77666

under Budget Heads during the 1869/70

Notab out
flow,

all Funds

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	1																																																																																								

[illegible]

88

Establishment

Total

Ry Public	Ry Officers	Ry Officers	and
Works Offices	of the	offices	plans
	Re-Departt	Educational	Schools
10 per cent	10 per cent	10 per cent	for
correlation	correlation	correlation	Park
Lt Col	Lt Col	Lt Col	Lt Col
Engineer	Engineer	Engineer	Engineer
Assistant	Assistant	Assistant	Assistant

Sitab out

slow,

all Fund

Fin

[illegible]

—

✓

O'Donoghue Road, V. J. J. J. J.

Establishment

Civil Buildings

Agricultural Communications

Miscellaneous

Public Improvement

Total

By Publication

Dr. Criss

Dr. 1830. 1831.

Notab cult.

slow,

20 Fund

Quairam
 Vizagapatam
 Godavery
 Krishna
 Bellare
 Gundapala
 Buruol
 Bellary
 Presidency
 Bangalore
 North Arcot
 South Arcot
 Salem
 Tanjore
 Trichinopoly
 Coimbatore
 Kilkheries
 Malabar
 South Canara
 Madras
 Pinnerelly

Fin

Aug 20 1891

92

9 9

88 52 7 11
 158 1 11
 196 5 10
 148 3 5
 111 0 1
 120 3 1
 99 1 52
 121 1 7
 100 1 7
 81 1 7 5
 108 2 5 9
 113 5 30
 141 8 3 8
 329 00 1
 52 00 9
 125 00 2
 10 53 6
 187 2 18
 71 7 15
 73 1 50
 181 1 20
 26 44 76

Ordered that the accompanying letter
be sent to the Hon. Mr. [unclear]
No. 3053
[unclear] [unclear] [unclear] [unclear]

To
The Secretary to the
Government of India.

Sir,
I am directed by
the Right Honorable
Governor in Council

forward for the
attention of the Gov-
ernment of India
the annual Report
of Local Funds
Expenditure on
Works in this
district for the
1869-70.

C.W. Secy. 15. Dec. 11
C.W. 30523

Recd 16/12/70
25/12/70
and a copy of [unclear] 1870

Annual Progress Report of Public Works in
the Madison Presidency undertaken from Local
during the year 1869/70.

The total expenditure from
our Local Funds for out-
lay on Public Works during
year 1869-70 was
\$29,37,270 distributed

as follows

Heads of services	Expenditure by		Total
	Public Works Officers -	Officers of other Departments	
Works	17,28,740	1,70,340	18,99,110
Buildings	5,55,350	1,31,240	6,86,590
Plant	3,03,870	1,48,200	4,52,070
	18,640	2,940	21,580
Total	26,17,700	3,19,570	29,37,270

The entire outlay under
heads of services was \$26,17,700
as below.

Heads of Services	By Public Works Officers	By other Departments	Total
Works	12,87,134	1,58,739	14,45,873
Buildings	6,93,373	1,94,471	8,87,844
Plant	2,84,266	1,33,417	4,17,683
	13,432		13,432
	22,78,205	3,66,557	26,44,762

The following
shows the
expenditure incurred
by Public Works Off-
icers and Officers of the Mar-
ine and Educational
Departments respec-

The Residence

The Residence
College which was opened
by His Royal Highness
Duke of Edinburgh
in his short stay
Wardrobes were very

ready for occu-
pation during the
winter months
and the building was

fit for the
College which
will be
of the most
architectural
value in the
country which
it is hoped
will

~~The building was~~
~~ready for occupation~~

91
to something more
modern, the more
modern effect which
produced by the
adoption of the new
style (if such it
be called) which
makes all the
buildings face
each other
upon the first
architectural level
where the matter
surfaces of the
have been exposed
new. The new
are the same
but the new
is a light grey
Cuddasack line
(a dark blue) new
red

real brick, ^{and when the ground has been at} The ^{superintendent of building} Station Renaissance ^{has been a success-}
ly treated is in some ^{more appearance} respects peculiarly adapted
to the country. The
forms of the windows
admirably suited
to verandahs open
and present also
as great a variety
of gothic. The
walls moreover
are thoroughly
without the
ing neatness and
most indispensable
classical art. In
of all the care
has been taken
to form and
out, the work
superior is evident
to

to the experienced eye
to relieve the bulk
of its somewhat con-
vex unfinished ap-
pearance. It is on-
ly fair to add that
the absence of every-
thing in the style
of a tree near
College it is diffi-
cult at present to
what may be
ultimate effect of
building. The ac-
commodation of
institution, the ar-
rangements of
rooms, and the
to the beneficence
of the service
can be

directly fail however to
the more important effects
of the conduct of Belcher
the action. The expenditure
in 1869/70 was
over 55,000, and the
total expenditure has
and the sum of
245,174.

Senate House

A beginning was
made with the new
House which
is not far from
Revenue Board Office
and nearer the Sea.
It is complete
and another
among

among the handsome
buildings which are
being added to the
city. At present only the
foundations have been
laid out at a cost of
28,552. and it is
therefore impossible
to judge what the
result will be. It has
been designed
the greatest care
the view to secure
comfort and arch
effect. The general
of the building is
Byzantine, but no
attempt has been
to infuse as much
the Hindu or
style into them.

at the Senate House
 in harmony to some
 extent with the British
 writings in the North
 of India. As a work
 in the Senate House
 do be considered as
 the highest effort yet
 made in this Presidency
 in a building to
 with the feelings
 of sympathy of the

Provincial School
 Mangalore
 The Provincial School
 Mangalore in the
 Canara District
 with the exception

of

of our outboard camp
 and given over to
 occupation. The
 during the year was
 of the 11/17/77 and
 of the 11/17/77 and
 of the 11/17/77 and

Wallagapett School.

House at Wallagapett
 in the South
 District

Communications

* Public Works Officers
 New Works - 11 28 4 66
 Repairs - 682 913
 Revenue Officers
 New Works - 45 713
 Repairs - 133 096
 18 113 79
 170 808
 19 99 157 19 22 187

The total
 expenditure during
 year and Commis-
 sion was 18
 outlay
 having been made

North Malabar Districts

Co. Anjore	271,375
Co. Cannanore	167,804
Co. Travancore	148,744
Co. Malabar	134,170
Co. Vizagapatam	131,050
Co. Coimbatore	119,821
Co. Dindigul	104,613
Co. Madurai	97,561

Co. Tanjore

A sum of Rs. 100,000
 is spent on the
 Town Council
 and 100 miles
 have been gravelled
 10 miles turfed
 earth work and
 on the roads
 to Asha and
 which was
 undertaken

South Malabar District

undertaken with a
 to opening out co-
 location will be the
 unsettled districts
 through which it
 were completed
 the other for
 the line to
 advanced
 great expenses
 more spent on
 the year. Open
 were continued a
 road from Alip
 Perambalur
 an outlay of Rs.
 18740 was in
 in executing
 works for 19 miles
 gravelled

rolling 5 miles of
gravel, constructing
small masonry works,
and collecting a large
quantity of materials.

Vizagapatam.

3rd progress
made on the road
to Gajapatyagram.
Great progress in
digging and turfing
being carried on
and but few
masonry works
to be completed.

Expenditure was
Rs. 34,824. On the
road from Godavaram
to

Vizagapatam.

to Ankasipally, and
on the branch to
Baran almost all
the earth was composed
of a great portion
the gravelly material
done, and considerable
progress made in
turfing. On the
39 masonry works
all were finished
11 were in course
of construction, the
expenditure being
Rupees 30,836. On
road from Vizag
to Gajapatam
nearly completed
a sum of Rs. 13 1/2

spent on the work.
The road from
Kupally to Mur-
shaka and from thence
to Gudimaidakka, a
sum of Rupees 15,000
was spent in the earth
was roughly
cut, two large
ditches were built up
on either side and
the bridge across
thence were finished,
turfing and
walling were com-
pleted. Four pro-
prietors made
the masonry
on the road
from

from Vijayapuram to
Gajapattinam
on the line connecting
Munabandrasuram, a
and Pichitintur; Rs. 10
and Rupees 9815 respec-
tively were spent on
works. The former
of these lines was
commenced in 1854
with a sum of
6500 contributed
the Government
of Vijayapuram.

Podewy.

The road
along the Co-
bank from
Lashivaram to
Mudicottai which the
constructed with a

afford increased facilities
of communication between
the important towns which
the connects made satisfac-
tory progress during the
year. The expenditure
amounted to Rspees 22,513.
The road from Nava-
to the Chenchinada
and the progress
made with the
the and sending
the line. The expen-
diture was Rspees 4,346.
The amount of Rspees 11,263
paid out on the
from Travally
to the river, the
work on which was almost
finished, one girder
bridge

bridge built, and
building and masonry works
proceeding with
the earth work and
sanding over the road
from Payle to
the river were com-
pleted at an
of Rspees 6,975.
Earthwork and
of the minor
works, together
the bridge across
Narasapur Canal
finished on the
from the river to
of the Vasista
at Koduru to
while good pro-
was made with
bridges across
Nocala and Gani
the

road from Guntur
attainably and
quarrying and carting
materials for completing
road. Rupees 10,303
spent in constructing
road between Guntur
Anaparthi. Four
of the line from
Apakakuloor to
rowpet were finished,
ties were covered
with gravel and several
masonry works were
built with gravel
several masonry
works built at
an outlay of
Rupees 1935. The road
from Masulipatam
to

to Cartaram was
completed with
trifling exceptions
in outlay during
the year of 1934.
The gravelling
the road from
to Papetla
at that service
to done to this
the expenditure
which was Rupees
Rupees 2,290 in
spent and good
progress made in
the masonry work
and embankment
the important
of communication
between

at an estimated
Rs 20,000. It was
spent on the road
from Ellore to the Hyderabad
frontier, the work
which was nearly
completed as far as Ellore
and was being
pushed beyond that
to the M.D. A sum
of Rs 10,000 was laid
out for the continuation
of the Naravavaram road
and the earth work
on this line was completed,
the foundations of the
bridge near Akkidi
were laid, and the other
works, as well
as the road made good.
In the road from
the bridge near Akkidi
to the end of the road an outlay
of

of Rs 68,000 was
incurred in completing
4 miles of road, 3
miles of surveying
and 2 bridges, and
on the collection of
Rs 1,00,000
spent on the road
from Akkidi to
Ellore. On
the road from Ellore
to Becc
Rs 99,000 were
expended in completing
of earth work and
2 bridges, and
finishing a third

At Akkidi
Rs 69,000
were laid out in
the last period of
the

On the road
between Bezwaada and
Mylar
some earth work,
digging and masonry
were being ex-
ecuted in the outlay
of the year amounted
to Rs 5605. The
digging of a portion
of road from Sandell
noor was all
remained to be done
and the expenditure
on which was Rs 1500.
Materials for the
work on the road
along on the Kishor
Mylar were
and the earth
work was nearly finished
at

101

finished at an ex-
tense of Paper \$768
foundations of the
over the creek near
village of Curlapollen
were laid and they
raised to feet in 1892.
diture reached \$1000.
The road from
Lipaturn to Callan
was completed in
cost of \$500 Paper &
of which \$100 was
paid by Mr. Stollens
of Lipaturn and
the balance by
Paper and Google.
to the bridge over
almost finished
an outlay during
year of 1895.
that from Surquim
to

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from Collespollen
under the bank
the upper Panam
bank to Sargapet
ever, with a few
minor exceptions
completed at an
of Dupree 1839
Dupree 2615, m
Dupree 6734 m
on opening out
first stone in
of the road for
mambola on
Chunk Road to
lattoor, and in
pleting the road
works on the
The earth work
the road from
ligorio to Ooa
was finished, and
the

Collection of materials
for construction of
the masonry works were
carried out. The
expenditure during
the year amounted
to Rs 9244.

Buddhapur.

The road from
Buddhapur to Yeraguntla
was commenced
to provide for
requirements con-
sistent with the
work upon the
out of the
West Line of
Madras Railway
with several
masonry
along the line
the level crossing
at the Railway
Station.

Station to the N.
bank of the Per
river, at an ex-
penditure of Rs 30.
Buddhapur and m-
asonry works we
executed on the
from Buddapur
Nandialham
an outlay of
and Rs 119.
spent on the
from Buddapur
Premamillet
expenditure on
Railway feeder
Buddapur
Moodamoor
to Rs 119.
this line the
masonry work
completed about
the

and Earthwork recently
the road that portion
of the forms the
about road was
and improved
and metalling
graveling were
commenced
at the junction of
the road &
Bellary
The pipes 1200
were expended on
the road from the
mool road to
Railway Station
Shooty, and thence
along 700 yards
road from
the to the
frontier were
carried out during
the

the year, several
sundry works
executed, and for
if the basic gra-
velled at an ex-
penditure of
1447-22 miles
the road from
dishtoor
looty were
pleted at an
lay of Pipes
during the
The abutments
returning was
the singular re-
bridge on the
from Adony
Shooty were
pleted and so
min

407
Previous work executed.
All expenditure being
Rs 3442. Rs 8154
were spent on the
road from Chippigins
Madasterah
to two miles of
road from the
river Papp to
Kundikannamoch
it were opened
and several sub-
sidiary works executed
cost of Rs 8258.
The striking off
the Kurnool
road and
to Calicut was
almost
finished, and four
road dams
were

were completed at
outlay of Rs 1000
Two miles of
road from Tumkur
to the Chickalpet
frontier were open-
ed during the
at an expenditure
of Rs 1400.

Madras Dist.

The road
Ottacottah to
Great Northern
via Tanjore
was formed with
earth. The bridge
masonry work
constructed for a
distance of 21 miles
and

could find progress
in the carting
materials: the
motivation during
a year was Rupees
The road from
Belore to Magdaporem
Cotacottah was
led through out,
which was
and check Chan-
were cut. The
amounting
Rupees 3868. The
from Cotacottah
thru was com-
pleted at a cost of
1898, and the
road laid out.
line from
to the Great
Northern

Northern Road
sum of Rupees
was appropriate
to the construction
of three Culverts
on the road from
the lattice bridge
at Leropore
to the collection
materials, and
formation of
earth work.
expenditure of
2720 was incurred
in completing
road from the
mile stones on
Great Northern
to Jaitpur, which
through the
of

On the further
side of the road was stopped
by a branch road
in the direction of
the last
road at
which was nearly
at the end
of the road.

W. R. Arcot.

The Rupees 3516 were
on the road
to the Tripetty
way Station, via
to Noidoochett,
1056 on the
road from Tripetty
to the Railway
station, and Rs. 2800
on

in the line from
Kavina. muni,
to the South Arc
Station. These
have been almost
finished. The
from Wandur
to Johor, via
was formed
bridges through
the whole length
34 miles, 13
tunnels only 10
miles to be covered.
The expenditure
to Rupees 2630
miles of the
from Arnee to
South Arcot. The
was formed an
bridge.

Ordnance with two
the only exceptions, and
the travelling of all
as 4 miles was
attracted - Rupees 1800
spent on this
and Rupees 2400
on various parts of
the from Veraval-
lur to the
Railway
of 17 miles of
road from Kallai-
li to Nodachellam
formed, a large
number of masonry
was constructed,
an Avenue of
planted along
the

South Street
Salem District.

102
the line. The
during the year
was Rupees 4880
A sum of Rupees
was spent on the
road from Ten-
mullay to the
boundary of
Kooram taluq
Vattavallam, to
fair progress
made with the
clearing of jungle
execution of ear-
work, and collection
of materials,
Rupees 5000
expended in
proving 18 miles

ing and mitalting
road from Nceda-
magalum to Mun-
gudy. The road
on the south bank
the Coleroon between
Road No VI
Marran Choultry
mished, since
standing of a
of the line;
Expenditure
amounting to Rs 11405.
restoration of
iles of the road
Cottor to Sany-
was nearly
pleted and on
the

the road from the
to Panagatan govt
on the Coleroon
A portion of the
work was finished
the collection of m
was in active p
the outlay on
having been
and on the later
5176. The line
Marranadloo
Coleroon bank at
panagady was
pleted and the m
of Road No IV
Jumbocasa
bridge to the
a large town in
be

road from Vellore
to Salem to Attur in
1861, and the follow-
ing sums were
paid out in the
construction of bridges
the completion
of which little re-
mains to be done, viz
Rs 4130 on the
road across the Con-
nor river on the
road between Thide-
m and Pan-
nam, Rs 4328
on the bridge over
the river at Bai-
re, and Rupees
on a bridge
of 12 feet
on the Salem
and

101
and Suramang-
liur. About 1861
the spot crossed
the Railway line

Tanjore.

Considerable
progress has
made with
masonry work
on the cross
from the Hu-
chendramudoly
bridge to Keer.
The outlay during
the year amount
to Rupees 19,000
Rupees 32941 be
expended in 1861

paddy growing parts
of the district was
estimated at an outlay
of Rs 1323, and
Rs 18502 respectively.
Rs 3000 from local
Rs 2446 from
provincial funds were
expended on a bridge
and dam across
the river and the
cost of which was con-
sidered with a view of
improving the communication
along the feeder to the
main station on the
Southern of India Railway.
An outlay of Rs 844
was incurred in forming
a road from Pandrota
to Comibacorum town
and raising it
to the level of the South Bank
of

Trichinopoly

The Arasalur; the
work was nearly complete
and sand was being
collected. Rs 11038 were spent
on metalling the road
from Papanasem to the Rail
station at Sathiam
and in the cart

10 Miles of the
road from Perambalur to
were opened out for
traffic and good
was made with the
portion (6 miles) The
cost during the year was
to Rs 1280. 7 miles
road from Perambalur
to Papanasem were
and made ready for
the outlay of Rs 1803.

under of the line has
a very advanced station
The minor masonry
is on the road from Mussoie
carriage were completed
and progress was made
the earth work the
having been
The road from
to Salem, in which
was outlay of Rs 4613.
almost finished, the
mile only remaining to be
at a cost of Rs 6500.
spent in completing the
road.
at Colermain and
ation of the road
the Lower Anicut to
and finally limited.

not finished

11
A sum of Rs 11490 was
appropriated to road
Dindigul to Caror, to
of which remains to
be done and Rs 1100
laid out on the line
Andipally to Allinag
Coimbatore.
The important
from Coimbatore to
the formation of which
sanctioned in 1868 in order
afford relief during an
bad season, to the
there in the Coimbatore
District, made good
Rs 20000 having been
it. The construction
and drains on the
Quarcor

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Malabar

Rs 4220 were spent
on road from Cherikul
Veloth, Irkur,
Kuparamba, and
Karamba to the
boundary. The
road and earth
work which made
progress. An outlay
of

of Rs 13342 was incurred
on the line from Pandesh
by Malatoot to the M
road which is considered
a very useful communication
through a country heretofore
quite shut out from
traffic. All the work on
road were complete
the exception of two
three tunnels and a
bridge over the M
which is being proceeded
with. Rs 10000 were
on finishing the road
from Pandesh to
Doot and Maubat.
Rs 5658 on the road
Callengode to

On the frontier, Operations
activity continued.
The road from Keraup.
Kumbato Nedebingul on
Periah Road, and
10916 were spent on the
The important state
of the existing
communications in
of the Malabar District
been strongly pressed
the notice of Govt.,
was recorded to the
situation of masonry
and alterations of the
to, when necessary,
from Tanor
soovangapooram, and
from

out to
during

110

at a outlay of Rs. 2730. These
bungalow at Periah
at Hadghanny was
completed at an exp.
Rs. 2730. These
were represented to
which needed in the
for the accommodation
travellers.

Canara
The bridge
Hassangady River
Moodbidry and
road was opened of

dal
road
reaching
case

and in the latter
at the bridging
of Padbidry and
of al road was com.
at an outlay of Rs
10000 in the bottom
Munjeskumar Road
stulges were finished
2 more nearly so,
expenditure of
these
works were
then with a view

Dist. 11
to incurring expenditure
new roads.
Madura

The outlay on
Periah Ghaut road, which
was commenced as a
primary to further open
in the project for turning
the waters of the Pora
into the Veyar, amounted
Rs. 10033. After the earth work
had been completed to a
depth of 18 feet, it was found
to suspend progress
financial restrictions

Legunta. Little progress
made on the road between
agunga & Jondy owing
to rains having been com.

late in the year.
outlay was Rs 3481.

Timnevelly.

Progress was made on the
road from Typur to Ootapadaram,

Rs 12,797 were spent on the

Rs 8,122 were laid out

on the road from Ootapadaram

Gramichi and Sevalperi

Palamcottah. The works

road from Palamcottah

to Sevilipettur via Sen

Coil were completed

at

Can

year

of the

Arduities

Colonel

many works were

at an expenditure of Rs

5141 were spent in

the

of the road

Trasudavanalloor, then

Teukasi to Panagood

4000 in carrying

completion & with

tension of the

and Vizianagaram

Trasudabatu - 4

Miles of the road

Strivecuntam

more than

day
a line
tween
and Time.

ine Rs 10039.

5. The cost of com-
pleting the Teruker
bridge
included in the amount.

His Public Improvement.
Restoration of the
Pier was completed
outlay of Rs 26792,
in expenditure
Rs 2000 was
on the Iron
Screw

Sept. of 1870 Madras

PUBLIC WORKS.

To the Secretary to the
Govt of India

Dated

Re J.

For

G O 15th Dec 1870 3052-3053