

Government of the Punjab,

PUBLIC WORKS DEPARTMENT.

ADMINISTRATION REPORT

OF THE

BUILDINGS AND ROADS BRANCH

FOR THE YEAR

1909-1910.

10986

(sent up to Simla.)

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Lahore:

CAXTON PRINTING WORKS.

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**PUBLIC WORKS DEPARTMENT,
PUNJAB,
BUILDINGS AND ROADS BRANCH.**

TOTAL EXPENDITURE.

The total outlay for the year amounted to Rs. 48,50,892 under the following main heads:—

	Rs.	
Imperial Military Works	2,02,196	
Imperial Civil Works	4,29,935	4,45,374
Famine Relief	1,910	
Provincial Civil Works	39,99,306	
Contributions (including local loans)	2,17,545	
Total	48,50,892	48,66,331

These figures exclude a sum of Rs 10,687 expended under subsidized Railways, for the Delhi-Ambala Kalka Railway, and a sum of Rs. 30,645 on account of Miscellaneous Railway Expenditure, representing charges of the Senior Government Inspector of Railways, Lahore, (Circle No. 4), audited by the Examiner, Public Works Accounts, Punjab.

ADMINISTRATIVE CHANGES.

2. The charge of the 1st Circle of Superintendence was held by Mr. C. H. Barratt, Superintending Engineer, throughout the year, excepting the period between the 9th April to the 10th October 1909, when it was held by Mr. W. A. Bagley.

The charge of the 2nd Circle, was held throughout the year by Colonel R. S. MacLagan, R. E.

The charge of the 3rd Circle was held by Mr. H. C. Granville, Superintending Engineer, throughout the year, except for three months from the 1st July 1909 to the 2nd October 1909, when, Rai Bahadur Kanhaiya Lal officiated as Superintending Engineer.

Mr. D. W. Aikman, on transfer from the United Provinces, assumed charge of the duties of Sanitary Engineer from Mr. H. M. Baines, who proceeded on leave on the 21st August 1909.

On return from leave, Lieutenant-Colonel W. R. Morton, R. E., Executive Engineer, was permanently transferred from the Irrigation to the Buildings and Roads Branch of the Public Works Department, Punjab.

The Kulu Sub-Division was transferred from the Simla to the Kangra Division, from the 1st April 1909.

Mr. D. Macfarlane and Sardar Sahib Balwant Singh, Assistant Engineers, remained on deputation throughout the year, the former with the Simla Municipality, and the latter with the Khalsa College at Amritsar.

FAMINE RELIEF WORKS.

3. No famine relief works were carried out during the year, but several famine projects were under preparation for the insecure tracts in the southern part of the Province.

IMPERIAL MILITARY WORKS.

4. The total outlay on original works was Rs. 1,20,603, including Rs. 79,287 under head "Special" and Rs. 48,641 on repairs.

The buildings of the Army Remount Department at Sargodha and Mona were efficiently maintained throughout the year, and the following works at Sargodha completed at a cost of Rs. 1,12,516 :—

Five and a quarter miles of metalled road; 4 young stock sheds; 2 Veterinary hospitals; 2 Remount stables; quarters for the Line Overseer; Sub-conductor and Veterinary Assistant; a pharmacy; a chaff cutting shed and 2 loose boxes.

Stallion stables were also built at Narwala, Sialwala, Salarwala and Newan in the Lyallpur District, and at Mauawala and Pacca Dalla in the Gujranwala District.

Metalled approach roads were provided to the residences of the Superintendent, Army Remount Department, and the Veterinary Officer at Lyallpur.

The new water supply to the encamping ground at Tret, Rawalpindi District, was completed at a cost of Rs. 7,379.

The additional water supply scheme for the paddocks at the Sargodha Depot was put in hand, and work on additional 5 miles of pucca road in the Depot was in progress.

A new supply house at Chichawatni in the Montgomery District was started.

IMPERIAL CIVIL WORKS.

5. The total outlay on original works was Rs. 2,37,283 and on repairs Rs. 1,32,216.

The re-roofing of the Ambala Cantonment Post Office, the new Post Office and an office for the Superintendent and Assistant Superintendent Telegraphs at Rawalpindi, the new Telegraph Office at Jhelum, quarters for postal peons, and alterations to the Yarrows Estate at Simla, were all completed. The Sophia Villa Estate at Simla, was purchased for Rs. 75,000, as a part of the scheme for the provision of quarters for clerks of the Government of India Secretariats, and furniture was purchased for Inverarm.

The following works were in progress :—

Quarters for 18 Telegraph peons at North View; converting press room in the Foreign Office into a record room at Simla; the combined Post and Telegraph Office at Dharmasala; the auxiliary buildings for the new Accountant General's Office, and the drainage of the Telegraph office compound at Lahore.

PROVINCIAL CIVIL WORKS.

6. The total expenditure incurred was Rs. 15,93,477 on works and Rs. 14,17,875 on repairs.

CIVIL BUILDINGS.

Administration.

Land Revenue.—Total expenditure on works Rs. 1,40,055.

The new record room at Gujranwala, and new tehsils at Kangra and Bhalwal were completed, while the following works were in progress :—

District Court buildings at Dharmsala, and the combined court and residence for the Assistant Commissioner at Fazilka.

Secretariat Offices.—Total expenditure Rs. 24,328.

All work connected with the provision of electric fans in the Civil and Public Works Department Secretariats at Lahore was completed during the year, at a total cost of Rs. 52,178.

Residences for Local Governments.—Total expenditure Rs. 1,44,321.

At Barnes Court, Simla, the enlargement and improvements of the grounds, widening the north approach road and additions and alterations to the main building were practically completed, as also the erection of a tank at Government House, Lahore, for fire protection and watering lawns to reduce the unhealthiness of canal irrigation round the house.

The alterations include the provision of Council Chambers and waiting rooms at both places. Owing to the uncertainty as to the continued stay of the Local Government at Simla, no works had been undertaken in connection with the Lieutenant-Governor's residence there for some years, and this opportunity was taken to put it in a position to meet the requirements of the greatly expanded population of Simla, and the large number of European and Indian visitors who now resort there. The altered building is unpretentious but commodious and meets the requirements of the expanded Council sufficiently.

Agriculture.—Total outlay on works Rs. 87,400.

The following works costing Rs. 3,35,087 to the close of 1909-10, were completed for the Agricultural College at Lyallpur :—Agricultural and Chemistry Block, fixtures for Main Block, residence for Chemist, Laboratory drainage, additions and alterations to the experimental farm buildings, additions to the residence of the Principal, and the laying out of certain metalled roads.

The gas plant for the College was approaching completion.

The following works were in progress :—

Fixtures for the Chemistry Block, buildings for the Economic Botanist, and the supply of electric energy for working fans and machinery in the workshops.

Minor Departments.

7. *Museums.*—Total outlay on works Rs. 6,844.

The work of laying corrugated iron sheeting over the existing concrete roof of the Jubilee Museum at Lahore, was completed at a cost of Rs. 6,713. This has resulted in a thoroughly water tight roof.

Monuments and antiquities.—Total outlay on works Rs. 48,851.

The edging of the water channels at Humayun's Tomb, Delhi, with red Agra sandstone was completed at a cost of Rs. 15,091; as also the improvements to the grass plots at Jehangir's Tomb at Shahdera.

The following works were in progress :—

Ornamental steel railing round the Saragarhi Memorial at Ferozepore, and the following works in connection with the Hayat Bakhsh garden, Delhi Fort :—

- (a) railings round garden, (b) edging minor channels, and (c) water supply; also removal and rebuilding of servants quarters and lavatory in Delhi Fort.

Educational.

8. *Government Colleges and Schools.*—Total outlay on works Rs. 53,746.

The additions and alterations to the Government High School at Amritsar, were completed at a cost of Rs. 10,294.

The following works were in progress at Lahore :—

Extension of, and provision of fittings for the Chemical Laboratory, Government College, cost Rs. 45,772; irrigating the recreation grounds of Government College, cost Rs. 9,346; and the provision of kitchens and out-houses for the combined boarding house of the Central Model and Normal Schools, cost Rs. 18,615.

Ecclesiastical.

9. *Burial Grounds.*—Total outlay Rs. 5,159.

The extension of the cemetery at Simla was practically completed. The expenditure to the close of the year amounted to Rs. 20,489.

Law and Justice.

10. *Chief, Small Cause and District Courts.*—Total expenditure on works Rs. 48,439.

The new Judicial lock-up at Montgomery was completed, and the following works were practically completed :—Additional electric fans for the Chief Court, Lahore, and the construction of a Sessions House at Dharmsala. The District Judge's residence at Dharmsala was in progress.

Jails.

11. *Central and District Jails.*—Total expenditure on works Rs. 56,364.

The following works were completed :—

Cellular barracks for 80 prisoners and the water supply for the Central Jail, Multan, and a ward for tuberculous patients and additional work sheds, Central Jail, Montgomery.

Police.

12. *Police.*—Total outlay on works Rs. 1,01,228.

The following works were completed :—Police stations at Hathin in the Gurgaon District, and at Retra, in the Dera Ghazi Khan District; and that at Katha Segral in the Shahpur District was practically completed.

The residence for Superintendent of Police, Police lines and parade ground at Lower Dharmsala; Police post and rest house at Bharwana, Kangra District; and rebuilding the Police station at Nathana in the Ferozepore District, were all in progress.

Medical.

13. *Hospitals and Dispensaries, Colleges, Lunatic Asylums etc.*—Total expenditure on works Rs 1,28,326.

The following works were completed and in progress at Lahore, viz:—

Additions and alterations to Mayo Hospital, and extensions and improvements to the Punjab Lunatic Asylum, completed; extension of dissecting room and a hostel for students of the Veterinary College in progress.

Materials were collected for the construction of the new Hospital at Kalabagh.

Miscellaneous.

14. *Registration Public Works and Miscellaneous buildings.*—Total outlay on works Rs. 1,08,741.

Registration.—The Sub-Registrar's Office at Muzaffargarh was completed.

Public Works Buildings.—Eight additional cottages for European clerks at Lahore, and the Assistant Engineer's residence at Dharmsala, were completed. The Rest House at Chorutta, and quarters for Public Works officials at Dharmsala, were approaching completion.

Miscellaneous or General.—Work on the residences for the Deputy Commissioner, and the Revenue Assistant Commissioner, at Lower Dharmsala, was in hand, and the Banni Khera rest house was started.

COMMUNICATIONS.

15.—*Metalled and Unmetalled Roads.*—The Provincial outlay on works amounted to Rs. 1,00,254, and on repairs to Rs. 9,80,642.

The figures for the 3 preceding years were:—

			Works.			Repairs.
1906-07	...	...	6,11,832	...	...	9,91,707
1907-08	...	...	3,74,074	...	...	10,02,065
1908-09	...	...	3,91,045	...	...	9,17,571

The following table shows the total mileage and cost of maintenance of metalled and unmetalled roads, Provincial and District, outside Municipal limits, during the year.

CLASS OF ROAD.	METALLED.				UNMETALLED.			
	Provincial.		District.		Provincial.		District.	
	Provincial.	District Board.	Provincial.	District Board.	Provincial.	District Board.	Provincial.	District Board.
Total mileage	1,196	148	803	431	693	984	15	17,861
Cost of maintenance	5,94,406	21,850	1,05,378	1,02,586	86,107	29,952	1,030	1,90,439
Rate per mile	499	148	206	238	124	30	69	11

The following feeder roads were either completed or in progress at the close of the year.

COMPLETED.	Mileage.	Estimate.
		Rs.
Daska to Sambrial, Sialkot District	10-0	86,351
Daska to Nandipur, Sialkot District	11-0	58,891
Sialkot to Pasrur, Sialkot District	20-0	1,06,991
Sargodha to Bhagtanwala, Shahpur District	15-5	88,669
Sargodha to minor, 2 L., Shahpur District... ..	1-25	6,755
Gojra to Sammundri, Lyallpur District	17-12	1,65,369
Chiniot to Chiniot city, Lyallpur District	8-0	14,448
Pauliani to Jaranwala, Lyallpur District	7-63	64,390
Thanesar to Pehowa, Karnal District	17-0	1,07,646
Nuh to Palwal, Gurgaon District	20-0	88,839
Kot Isakhan to its junction with Moga Dharmkot Road, Ferozepore District	6-75	21,457
Moga to Dharamkot, Ferozepore District	9-75	36,017
Jagroan to Sidhwan, Ludhiana District	8-5	32,620
Batala to Kila Lal Singh, Gurdaspur District	5-0	19,577
IN PROGRESS.		
Lyallpur to Narwala, Lyallpur District	7-07	47,942
Sargodha to Sabhowal, Shahpur District... ..	9-0	51,065
Bhalwal to Laliani, Shahpur District	6-25	38,180
Shahdera to Sharakpur, Lahore District	15-0	1,05,082
Kurali to Kharar and Chandigarh, Ambala District	21-27	1,16,649
Hafizabad to Kila Didar Singh, Gujranwala District	20-0	91,182
Ladwa to Abdullapur, Ambala District	8-09	44,878
Ladwa to Abdullapur, Karnal District	10-64	41,909
Nuh to Ferozepore, Gurgaon District	23-0	1,13,384
Sampla to Kharkhanda, Rohtak District	12-12	82,698
Sonepat to Kharkhanda, Delhi and Rohtak Districts	10-50	36,863
Delhi to Rohtak, Delhi District	16-5	32,684
Bhattu to Fatehabad, Hissar District	11-5	44,662

The following works were completed :—

Widening Hindustan-Tibet road from filter beds to Wildflower Hall, Simla; survey for the extension of Hindustan-Tibet road; improvements to mile 34, Dunera Nani Khud road, including reinforced concrete covered way, and improving and metalling 2nd section of new Cart road to Lower Dharm-sala.

The following were in progress :—

Encamping ground on Hindustan-Tibet road at Charabra; constructing certain roads in the vicinity of the Retreat Estate at Mashobra; constructing inspection path from Oot Behali Bridge to Daod Quarry, along right bank of Beas; and diverting and reconstructing Multan-Muzaffargarh road. The mule road to Sakesar from Railway Station at Gunjyal was realigned and new land was taken up for a surface road from the Railway Station at Gunjyal to the foot of the Sakesar hills.

A dak bungalow was built at Sakesar, and Serais were constructed at Zingzingbar, Kylong and Sarcha on the Kulu Lingti road.

On a review of the financial position of Local Boards, it was decided that it would be inadvisable for Government to continue the policy of constructing more feeder roads for the full term of five years, originally contemplated; and it was decided that all old and new completed feeder roads with the funds available should be transferred to the Local Boards for future maintenance from 1st April 1910, the roads then remaining under construction were to be completed from Provincial revenues, and thereafter also made over to the Boards for future maintenance.

BOAT BRIDGES AND FERRIES.

The boat bridges over the Palku Nullah at Wazirabad, and over the Ravi at Shahdera, were maintained throughout the year, as usual; and that over the Indus at Dera Ghazi Khan, was kept open during the cold weather only. The boat bridge over the Jhelum at Khushab was maintained until the 17th January 1910, when it was carried away by a heavy flood and three boats lost. The bridge material was salvaged and the bridge will be opened as soon as possible. The following special works were carried out during the year :—

Renewing equipment and salvage of equipment washed away at the Dera Ghazi Khan boat bridge.

Major ferries were maintained at Mirghan, Sanauli, Khojgipur, and Rajghat over the river Jumna; at Dera Gopipur and Beas over the river Beas; and the steam ferry service during the flood season over the river Indus at Dera Ghazi Khan.

MISCELLANEOUS PUBLIC IMPROVEMENTS.

16. The expenditure was as follows :—

		Works.	Repairs.
Imperial Civil Contribution	... ..	62	0
Provincial „ „	... ..	5,08,338	93,353
Municipal and Loans	... ..	61,800	12,724
Private Contributions	... ..	26,710	3,455

IMPROVEMENTS TO TOWNS.

The drainage and water supply schemes of the new market at Pattoki, Lahore District, were in progress.

PAVING AND STREETS.

17. At Simla, the following works, costing Rs. 2,12,100 to the close of the year, which were proposed by the Improvement Committee of 1907, were completed :—

Driving road round Summer Hill; road from junction of Barnes Court approach road, with High Level road round Jakko to Hainault; road round North side of Observatory Hill; High Level road from Convent to junction with Barnes Court road; road from Viceregal Lodge to Glen Corner; improving and widening road round Chelsea Convent.

The Improvements consisting of, widening and metalling with stone the Upper Mall, from Race Course road, to the Canal Bridge, at Lahore, and roads in the Civil Station, Lower Dharmasala, were completed.

The new road from Hotz's shop to "The Mythe" at Simla; paved platforms round the grain market at Jhang; raising and metalling of roads in blocks 13, 14, 15 and 16 of Sargodha Town; and construction of a well for, and metalled approach road to, the Chuhar Khana Market on the Shahdera-Sangla Railway, Gujranwala District, were in progress.

Lighting.—Total Outlay Rs. 79,616.

The following works in connection with the Simla Hydro-Electric Scheme were in progress during the year :—

The heavy rock cutting for the flume line on the east side of the Panhera ridge was nearly completed and some progress made on the west side. The tunnel through Panhera was started on the east face and about 250 feet completed. The head works were started and some progress made; about half of the road from Basantpur Bridge to the Power Station at Chaba was com-

pleted. Cutting of trees for seasoning for the transmission line was completed. Copper wire for the main transmission line was purchased through the Director-General of Stores, India Office. Temporary quarters for the Engineering staff and subordinates were constructed at a cost of about Rs. 31,000. The total outlay to end of 1909-10, amounted to Rs. 1,04,766.

Water Supply.—The additional filter bed at Dahali, cost Rs. 10,020 for the Simla water works, and the erection of a second boiler, cost Rs. 17,514 at Khushalia river, for the Kalka water supply were completed.

The water supply scheme for the Town of Jarranwala, and the extension of the Dharmsala water supply project were both in progress at the close of the year.

Sewerage and Drainage.—In the Sargodha drainage scheme, work on blocks, 8 and 16 was completed, while that on blocks 9, 10, 13, 14 and 15 was still in progress.

Of the Bhalwal drainage works, two main longitudinal pucca drains were completed in blocks 1 and 2, and the flushing channel outfall and other connected works were in hand.

A sum of Rs. 10,000 was contributed by Government for the intramural drainage of the town of Gujrat, and a sum of Rs. 6,000 for the Mianapura drainage scheme, Sialkot District.

Miscellaneous.—The cut and bund on the Kikriwala island, Dera Ghazi Khan, mentioned in last year's report was completed, but owing to the great stiffness of the clay the river did not succeed in cutting it out, and the discharge through it has not realized expectations, having never exceeded 3,800 cusecs approximately.

A sum of Rs. 8,658 was contributed from Provincial funds towards the erection of the statue of Her late Majesty Queen Victoria, at Rawalpindi, and Provincial grants-in-aid were also sanctioned for sanitary works at Amritsar, Tanda and Ambala, aggregating Rs. 53,392.

CONTRIBUTION WORKS.

The total outlay was Rs. 5,35,192.

The following works were finally completed :—

Divisional and Sub-Divisional Forest Office at Dharmsala; Municipal Police station with married quarters at Lyallpur; Police barracks and out posts, Rawalpindi City; improvements to the High Level road from Daran to Deo which is a section of the Hindustan-Tibet road; suspension bridges at Jhakri and Dhar on the same road; a Civil Dispensary at Rohtak; water supply and drainage scheme for the town of Pind Dadan Khan; City drainage, Jhelum; improvements to the Lohgarh area drainage, City Amritsar; marble canopy over Queen Victoria's statue at Lahore; out houses and a new lavatory for the Boys School, Lawrence Military Asylum, Murree.

The following works were in progress :—

Divisional Forest Officer's residence at Lower Dharmsala; suspension bridge to carry the Hindustan-Tibet road over the river Sutlej at Poo and Chaura; drainage of the western part of the town of Gujranwala; the intramural drainage schemes of the towns of Gujrat and Hazro; and the Police chowki near Mai Vero's tank, Rawalpindi City.

Work on the Majitha drainage was suspended, owing to a considerable rise in spring level having occurred, which will necessitate modifications in the project.

DAMAGE BY FLOODS.

18. The boat bridge over the river Jhelum at Khushab was swept away on the night of the 17th January 1910, and 3 boats entirely destroyed. The boats and bridging materials were salvaged and the damage caused, repaired.

The heavy rains in July 1909 caused the complete destruction of the Military Police Post at Sheikhwala in the Dera Ghazi Khan District, and damaged the rest house at Mahmudpur in the Muzaffargarh District, to such an extent as to necessitate its dismantlement. At Dera Ghazi Khan no very great erosion took place during May, June and July 1909, though the Indus was in flood, but by the first week in August, 123 feet of bank was carried away at the Kasturi Canal. During the second week of August, the situation developed rapidly, and more erosion took place at this point. The stream began to fall about the end of August, and by the 15th September all erosion had stopped. The floods in the river were not so severe as during 1908, and no very great damage was done to the city or bunds.

Heavy rains in September 1909 caused considerable damage to the Kalka-Kasauli bridge road, nine culverts were washed away, and a great number of retaining walls collapsed.

WORKS OF PUBLIC UTILITY.

19. Works aggregating Rs. 1,88,350 were carried out by private individuals, being an increase of Rs. 17,513 over the expenditure last year. The most important works were:—

A Dharmasala, costing over a lakh of rupees, built by Lala Lachmi Narain, Banker and Municipal Commissioner, Delhi, on the Chhatta Jan Nisar Khan road, Delhi Division; a Dharmasala and well on the Rewari-Narnaul road in the Gurgaon District by Babu Ram Chandar of Qutabpur, at a cost of Rs. 9,000; and a girls' School built in the Lahore City by Mehr Singh Chawla, Municipal Commissioner, Lahore, at a cost of Rs. 7,300.

ASSISTANCE RENDERED TO LOCAL BODIES.

20. Assistance was given to Local Bodies by having projects prepared for them and in most cases also by carrying out the works. Projects aggregating Rs. 9,93,867 were also scrutinized for Local Bodies.

CAPITAL COST OF BUILDINGS.

21. The table below gives the capital cost and cost of maintenance of buildings for the year.

Cost of building.		Capital cost.	Cost of main- tenance.	Percentage.
		Rs.	Rs.	
Imperial	... { Permanent	47,87,812	37,419	·78
	... { Semi-permanent	45,53,762	68,658	1·50
	... { Temporary	1,06,173	2,300	2·16
Provincial	... { Permanent	92,60,409	98,433	1·06
	... { Semi-permanent	1,44,37,049	1,83,962	1·27
	... { Temporary	8,16,948	61,876	1·62
Provincial. Capital and Revenue accounts are kept.)	{ Permanent	70,422	1,361	1·93
	{ Semi-permanent	8,10,168	16,013	1·97
	{ Temporary	1,38,986	4,463	3·21

ESTABLISHMENT CHARGES.

22. The percentage of cost of establishment on expenditure was as follows :—

				per cent.
Imperial Civil	...	...	...	16·22
„ Military	...	...	...	18·19
Provincial	...	...	...	30·95

PERSONAL.

23. Out of the sanctioned strength of 41 officers, 33 were present for duty, 6 on leave and 2 on deputation. The number of temporary engineers was ten.

Mr. V. Stainton, Executive Engineer, in charge of the Lahore Provincial Division, No. 1, was thanked by His Honour the Lieutenant-Governor for the trouble and care he had taken in preparing the project for constructing a temple and Dharmasala at the Aitchison College, Lahore, in addition to his current duties in a very heavy division. Messrs. Barratt and Bagley, in the 1st Circle, worked out plans for a Hydro-Electric Scheme on the Leh at Rawalpindi, and for a Storage Scheme at Namal in the Mianwali District. Mr. Orr, Executive Engineer, Simla had heavy work in connection with the Simla Improvement Scheme, and the alterations to the Lieutenant-Governor's residence.

LAHORE: }
 Dated 4th November 1910. } F. ST. G. MANNERS SMITH,
 } *Offg. Secretary to Government, Punjab, P. W. D.,*
 } *Buildings and Roads Branch.*

STATEMENT A.

Statement of expenditure on Public Works during 1909-10.

Service Head,	ORIGINAL WORKS.		REPAIRS.		TOTAL.	
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
1	2	3	4	5	6	7
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
33.—FAMINE RELIEF.						
III.—Civil Works.						
Miscellaneous Public Improvements	...	124	...	...	...	124
Establishment ...	...	...	...	...	...	...
Tools and Plant ...	...	...	...	...	2,000	1,786
Total	...	124	...	...	2,000	1,910
47.—MILITARY WORKS.						
SPECIAL DEMANDS.						
Works ...	79,200	79,287	...	...	79,200	79,287
Establishment ...	...	...	...	...	...	...
Tools and Plant ...	...	...	...	...	...	...
Suspense ...	...	...	...	...	...	...
Barrack Department ...	...	...	...	...	...	...
Expenditure in England	...	...	...	...	...	...
Total, Special Demands	79,200	79,287	...	...	79,200	(a) 79,287
ORDINARY DEMANDS.						
Works ...	34,716	41,316	45,562	48,641	80,278	89,957
Establishment ...	...	...	...	...	36,451	30,663
Tools and Plant ...	...	...	...	...	2,462	1,983
Suspense ...	...	...	...	...	...	...
Barrack Department ...	...	...	...	...	266	306
Expenditure in England	...	...	...	...	...	...
Total, Ordinary Demands	34,716	41,316	45,562	48,641	1,19,457	1,22,909
Total, Military Works	1,13,916	1,20,603	45,562	48,641	1,98,657	2,02,196
Carried over	1,13,916	1,20,727	45,562	48,641	2,00,657	2,04,106

(a) Charges for Establishment and Tools and Plant debited to the Military Works grant for "Ordinary Demands" vide Government of India Army Department letter No. 262 S., dated the 27th July 1909.

STATEMENT A.—concluded.

Statement of expenditure on Public Works during 1909-10.

Service Head.	ORIGINAL WORKS.		REPAIRS.		TOTAL.	
	Grant.	Outlay.	Grant.	Outlay.	Grant.	Outlay.
1	2	3	4	5	6	7
LOCAL FUNDS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward ...	22,91,139	19,51,487	16,84,302	15,98,732	50,09,405	46,83,847 46,48,786
Excluded Local Funds ...	...	...	...	...	...	...
Contributions including Local Loans ...	...	...	...	...	4,11,886	2,17,545
Total, Local Funds ...	...	...	...	...	4,11,886	2,17,545
GRAND TOTAL ...	22,91,139	19,51,487	16,84,302	15,98,732	54,21,241	48,50,892 48,66,331
40—SUBSIDIZED RAILWAYS.						
Delhi-Ambala-Kalka Railway ...	...	...	...	...	...	10,687
Total ...	...	...	...	...	...	10,687
41.—MISCELLANEOUS RAILWAY EXPENDITURE.						
Senior Govt. Inspector of Railways, Lahore (Circle No. 4).	...	...	...	...	29,000	30,645
Total ...	...	...	...	...	29,000	30,645

STATEMENT B.

Statement of Imperial Roads in the Punjab, not within Municipal boundaries, maintained by the Public Works and Local Authorities, respectively, during 1909-10.

Name of Division,	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the P. W. D.	Length of metalled roads maintained by the Local authorities.	Length of unmetalled roads maintained by the Local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
1ST CIRCLE.							
Nil.							
2ND CIRCLE.							
Nil.							
3RD CIRCLE.							
Multan.	D. G. Khan ...	5.05	1.87	...	94.75	5.05	96.62
	Total ...	5.05	1.87	...	94.75	5.05	96.62
TOTAL, IMPERIAL ROADS	...	5.05	1.87	...	94.75	5.05	96.62

STATEMENT B.—continued.

Statement of Provincial Roads in the Punjab, not within Municipal boundaries maintained by the Public Works and Local Authorities, respectively, during 1909-10.

Name of Division.	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the P. W. D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
1st Circle.							
Rawalpindi	Rawalpindi	109.61	5.00	...	56.51	109.61	61.51
	Jhelum	31.59	...	...	40.53	31.59	40.53
	Attock	57.00	...	...	138.09	57.00	138.09
	Total	198.20	5.00	...	235.13	198.20	240.13
Shahpur	Shahpur	25.74	2.28	6.80	24.41	32.54	26.69
	Mianwali	...	...	59.00	70.00	59.00	70.00
	Total	25.74	2.28	65.80	94.41	91.54	96.69
Lyallpur	Lyallpur	...	...	...	28.25	...	28.25
	Jhang	...	...	3.26	11.89	3.26	11.89
	Total	...	...	3.26	40.14	3.26	40.14
Gujranwala	Gujranwala	44.87	...	5.64	3.12	50.51	3.12
	Gujrat	37.29	...	2.00	...	39.29	...
	Sialkot	22.44	...	1.75	29.00	24.19	29.00
	Total	104.60	...	9.39	32.12	113.99	32.12
Total, 1st Circle...		328.54	7.28	78.45	401.80	406.99	409.08
Carried over		328.54	7.28	78.45	401.80	406.99	409.08

STATEMENT B.—continued.

Statement of Provincial Roads in the Punjab, not within Municipal boundaries, maintained by the Public Works and Local Authorities, respectively, during 1909-10.

Name of Division.	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the P. W. D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
	Brought forward...	328.54	7.28	78.45	401.80	406.99	409.08
2ND CIRCLE.							
Delhi	Delhi	80.25	...	...	10.87	80.25	10.87
	Gurgaon	30.00	...	...	...	30.00	...
	Rohtak	0.56	...	10.57	27.21	11.18	27.21
	Total	110.81	...	10.57	38.08	121.38	38.08
Ferozepore	Ferozepore	55.95	...	3.35	...	59.80	...
	Hissar	...	...	8.21	89.00	8.21	89.00
	Ludhiana	69.59	...	15.17	...	84.76	...
	Total	125.54	...	26.73	89.00	152.27	89.00
Ambala	Ambala	88.04	9.00	3.33	23.42	86.37	32.42
	Simla	7.00	20.07	...	...	7.00	20.07
	Karnal	128.96	...	6.56	5.20	135.52	5.20
	Total	219.00	29.07	9.89	28.62	228.89	57.69
Simla	Simla	59.07	205.56	...	...	59.07	205.56
	Total	59.07	205.56	...	...	59.07	205.56
	Total, 2nd Circle...	514.42	234.63	47.19	155.70	561.61	390.33
	Carried over	842.96	242.91	125.64	557.50	968.60	799.41

STATEMENT B.—continued.

Statement of Provincial Roads in the Punjab, not within Municipal boundaries, maintained by the Public Works and Local Authorities, respectively, during 1909-10.

Name of Division.	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the P. W. D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
	Brought forward...	842.96	242.91	125.64	557.50	968.60	799.41
3RD CIRCLE.							
Lahore I	Lahore	80.52	...	2.20	16.00	82.72	16.00
	Total	80.52	...	2.20	16.00	82.72	16.00
Multan	D. G. Khan	22.94	50.71	...	323.00	22.94	373.71
	Muzaffargarh	10.48	22.7	7.00	3.00	17.48	25.7
	Multan	13.21	...	...	...	13.21	...
	Total	46.63	73.41	7.00	326.00	53.63	399.41
Kangra	Kangra	77.15	314.87	...	...	77.15	314.87
	Total	77.15	314.87	...	...	77.15	314.87
Jullundur	Amritsar	44.69	...	1.50	16.50	46.19	16.50
	Gurdaspur	28.63	34.50	7.70	67.70	36.33	102.20
	Jullundur	65.98	...	...	...	65.98	...
	Hoshiarpur	9.27	28.41	4.37	...	13.64	28.41
	Total	148.57	62.91	13.57	84.20	162.14	147.11
	Total, 3rd Circle	852.87	451.19	22.77	426.20	375.64	877.39
	TOTAL, PROVINCIAL ROADS.	1,195.83	693.10	148.41	983.70	1,344.24	1,676.80

STATEMENT B.—continued.

Statement of District Roads in the Punjab, not within Municipal boundaries, maintained by Public Works and Local Authorities, respectively, during 1909-10.

Name of Division.	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the P. W. D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
1st Circle,							
Rawalpindi	Rawalpindi	...	...	15·00	829·00	15·00	829·00
	Jhelum	...	...	3·96	952·50	3·96	952·50
	Attock	...	...	21·60	604·40	21·60	604·40
	Total	...	...	40·56	2,385·90	40·56	2385·90
Shahpur	Shahpur	33·99	...	...	1,096·70	33·99	1096·70
	Mianwali	...	...	2·00	500·00	2·00	500·00
	Total	33·99	...	2·00	1,596·70	35·99	1596·70
Lyallpur	Lyallpur	74·39	8·00	...	985·50	74·39	993·50
	Jhang	8·00	...	7·07	718·25	15·07	718·25
	Total	82·39	8·00	7·07	1,703·75	89·46	1711·75
Gujranwala	Gujranwala	80·03	7·09	12·07	1,241·90	92·90	1248·99
	Gujrat	7·74	...	3·00	611·00	10·74	611·00
	Sialkote	39·00	...	29·00	755·75	68·00	755·75
	Total	126·77	7·09	44·87	2,608·65	171·64	2615·74
Total, 1st Circle...		243·15	15·09	94·50	8,295·00	337·65	8810·09
Carried over		243·15	15·09	94·50	8,295·00	337·65	8810·09

STATEMENT B.—continued.

Statement of District Roads in the Punjab, not within Municipal boundaries maintained by Public Works and Local Authorities respectively, during 1909-10.

Name of Division.	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the F. W. D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
	Brought forward...	243·15	15·09	94·50	8295·00	837·65	8810·09
2ND CIRCLE—concl'd.							
Delhi	Delhi	22·54	...	41·49	280·85	64·08	280·85
	Gurgaon	77·53	...	36·00	480·00	113·58	480·00
	Rohtak	106·75	...	10·00	527·00	116·75	527·00
	Total	206·82	...	87·49	1287·35	294·81	1287·85
Ferozepore	Ferozepore	40·29	...	10·65	823·65	50·94	828·65
	Hissar	11·18	...	1·00	856·12	12·18	856·12
	Ludhiana	62·22	...	48·49	201·43	110·71	201·43
	Total	113·69	...	69·14	1881·20	173·83	1881·20
Ambala	Ambala	43·25	...	18·14	302·69	61·39	802·69
	Karnal	49·50	...	10·72	684·00	60·22	684·00
	Total	92·75	...	28·86	986·69	121·61	986·69
Simla	Simla	...	...	...	17·00	...	17·00
	Total	...	...	...	17·00	...	17·00
	Total, 2nd Circle...	413·26	...	176·49	4172·24	589·75	4,172·24
	Carried over	656·41	15·09	270·99	12467·24	927·40	12,482·33

STATEMENT B.—concluded.

Statement of District Roads in the Punjab, not within Municipal boundaries, maintained by the Public Works and Local Authorities, respectively, during 1909-10.

Name of Division.	Name of District.	Length of metalled roads maintained by the P. W. D.	Length of unmetalled roads maintained by the P. W. D.	Length of metalled roads maintained by the local authorities.	Length of unmetalled roads maintained by the local authorities.	Total metalled roads.	Total unmetalled roads.
1	2	3	4	5	6	7	8
	Brought forward...	656.99	15.09	270.99	12,467.24	927.40	12,482.33
3RD CIRCLE.							
Lahore I	Lahore	48.84	...	0.07	845.87	48.91	845.87
	Total	48.84	...	0.07	845.87	48.91	845.87
Jullundur	Amritsar	28.00	...	91.56	302.44	54.56	302.44
	Jullundur	69.71	...	43.00	319.72	112.71	319.72
	Gurdaspur	...	...	28.48	524.00	28.48	524.00
	Hoshiarpur	4.75	...	7.05	708.50	11.80	708.50
	Total	97.46	...	110.04	1,855.66	207.50	1,855.66
Multan	D. G. Khan	...	...	.15	210.00	.15	210.00
	Muzaffargarh	...	...	14.80	541.50	14.80	541.50
	Multan	...	...	29.06	861.00	29.06	861.00
	Montgomery	...	...	6.00	1,070.00	6.00	1,070.00
	Total	...	...	50.01	1,982.50	50.01	1,982.50
Kangra	Kangra	...	...	...	710.00	...	710.00
	Total	...	...	...	710.00	...	710.00
	Total, 3rd Circle	146.30	...	160.12	5,394.03	306.42	5,394.03
	TOTAL, DISTRICT ROADS	802.71	15.09	431.11	17,861.27	1,233.82	17,876.36

