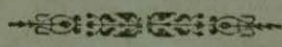


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Government of the Punjab,
PUBLIC WORKS DEPARTMENT.



ADMINISTRATION REPORT

OF THE

GENERAL BRANCH

FOR THE YEAR

1895-96.

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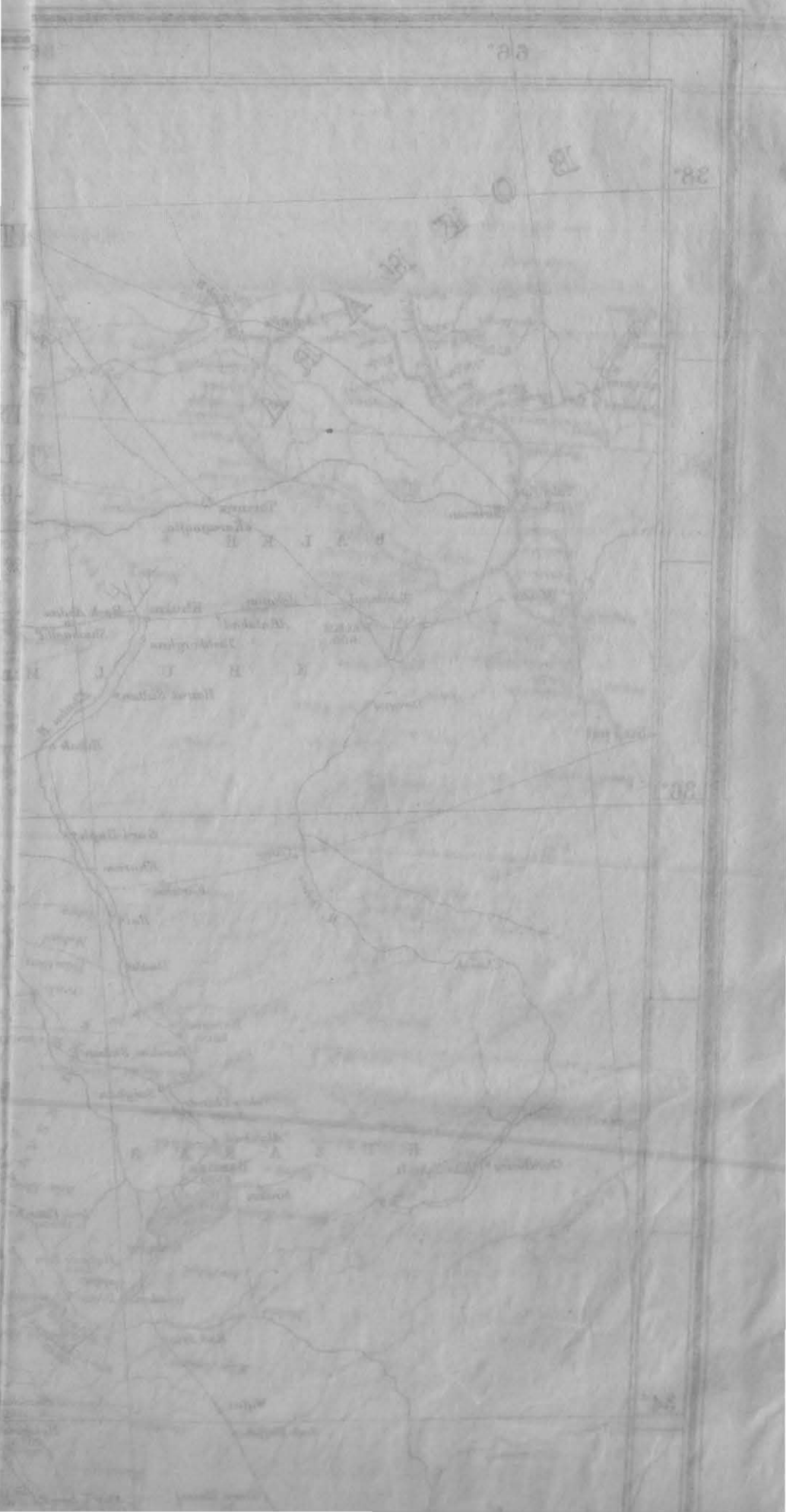
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Government of the Punjab,
PUBLIC WORKS DEPARTMENT.



ADMINISTRATION REPORT

OF THE

GENERAL BRANCH

FOR THE YEAR

1895-96.



PUBLIC WORKS DEPARTMENT, PUNJAB.

ADMINISTRATION REPORT OF THE GENERAL BRANCH FOR THE YEAR 1895-96.

GENERAL REMARKS.

Expenditure.—The total expenditure on Public Works amounted to Rs. 59,01,935 against Rs. 54,43,242 incurred in the preceding year. The increase of Rs. 4,58,693 is due to additional outlay incurred under the several major service heads detailed below to the extent noted against each :—

	Rs.
Imperial Military	1,13,069
" Civil	71,479
Provincial do.	1,13,129
Incorporated Local	1,00,758
Municipal and Loans	33,007
Private contributions, &c.	27,251
TOTAL	4,58,693

Deducting the expenditure—Imperial Military, Rs. 7,58,882, Imperial Civil, Rs. 4,20,821 and Private contributions, &c., Rs. 1,30,279, in which the Public Works Department acts as an agent, the expenditure incurred on Public Works on account of the Province amounted to Rs. 45,91,953. The District Fund Public Works Establishment, besides carrying out works and repairs from that fund to the extent of Rs. 9,43,173, executed Imperial Military repairs costing Rs. 1,892, and Provincial works and repairs costing Rs. 1,49,517. The Municipalities, on the other hand, carried out only their own works and repairs to the extent of Rs. 7,75,465 ; while the Provincial Establishment spent Rs. 31,378 on District works and repairs, Rs. 2,06,915 on Municipal works and repairs, and the whole of the rest of the funds from all sources.

2. Unification of Provincial and District Board Public Works Establishments.—This scheme was steadily continued, as far as practicable, throughout the year ; 28 miles of the Delhi-Sirsa Provincial road were retransferred to the Provincial Establishment, and the following roads taken over for maintenance from the District Boards :—(a) 27 miles of the Rohtak-Bhiwani road lying within the Rohtak and Hissar Districts with a maintenance grant of Rs. 10,496 ; and (b) 6 miles of the Samrala-Machiwara road in the Ludhiana District with a maintenance grant of Rs. 1,607. Other transfer proposals were also under consideration by the Local Civil and Public Works officers concerned. The total annual grants from Provincial Funds for Provincial buildings and roads transferred to Local Bodies for maintenance at the close of the year amounted to Rs. 80,974 to District Boards, and Rs. 4,959 to Municipalities, and the contribution of Rs. 25,200 per annum to 13 Civil Districts as grants-in-aid for Engineering Establishment was continued. The District Boards of Ludhiana, Kangra, Delhi, Rohtak, Gujranwala, Ferozepur and Hissar, on the other hand, paid an aggregate sum of Rs. 48,620 on account of the yearly cost of Repairs to District buildings and roads transferred to the Provincial Establishment for maintenance.

3. *Important works.*—The more important works in hand or carried out were :—

Imperial Military.—Improving the road through the Khagan valley ; water-supply at encamping grounds on the North-West Frontier road, section Kohat to Latammar ; metalling and improving the Dera Ismail Khan Tank-Murtaza road ; adding a third floor to the two wings of the Army Headquarters buildings at Simla ; military buildings at Para Chenar in the Kurrum valley ; quarters for four officers and the commandant at Mustan on the Samana ; and a new post at Wano.

Imperial Civil.—Civil buildings and militia lines, and a suitable water-supply for the cantonment and civil station at Para Chenar in the Kurrum valley ; and levy posts in the Tochi valley.

Provincial.—Combined boarding house for the Central Training college ; Normal school and Central Model school, Lahore ; new sessions house at Jhelum ; forty quarantine cells at Peshawar ; lock-up at Muzaffargarh ; Commissioner's residence at Delhi ; metalling Lahore and Sheikhpura road, section Mandiali to Sheikhpura ; new girder bridge over the river Jhelum at Kohalla ; feeder roads in the Chenab Canal Colony in connection with the Wazirabad-Lyallpur Railway ; metalling and improving the Kangra valley cart road, section from mile 4 to Shahpur, also a bridge over the Guj torrent at mile 46 ; and extending the Indus river protective bund at Dera Ghazi Khan.

District.—Jubilee High school at Rohtak ; metalling the Delhi-Najafgarh and Gujranwala-Hafizabad roads ; also the Sialkot-Amritsar road section in the Sialkot District.

Municipal.—School building at Simla ; water works, Amballa ; distribution of water-supply in the Rawalpindi city ; and drainage works at Lahore and Dera Ghazi Khan.

4. *Book value of Provincial buildings.*—The total value on 31st March 1896 stood at Rs. 2,20,37,145 and expenditure on maintenance amounted to Rs. 2,20,570, or a rate of Rs. 1·009 per cent. on the capital cost. The difference in the total value Rs. 2,07,77,488, last reported, and that now given, is due to additions and alterations to existing buildings, and to sales and dismantlement of old and unserviceable buildings, also to certain errors since rectified. The cost of maintenance includes charges for the up-keep of pucca, kutch-pucca and kutch buildings. Endeavours will be made to show, if possible, the cost of each class separately in the next report.

5. *Comparative expenditure on Civil Buildings and Communications.*—The following figures compare the outlay of the year :—

FUNDS.	ORIGINAL WORKS.		REPAIRS.	
	Civil build-ings.	Communica-tions.	Civil build-ings.	Communica-tions.
	Rs.	Rs.	Rs.	Rs.
Imperial	1,90,424	11,175	1,00,652	16,541
Provincial	1,98,051	2,02,532	2,20,570	10,19,880
Incorporated Local	78,447	1,22,282	84,705	4,32,496
TOTAL	4,66,922	3,35,989	4,05,927	14,68,917

Or a total of Rs. 26,77,755 against an aggregate provision of Rs. 39,15,100 available for all Works and Repairs including Establishment and Tools and Plant charges.

6. *Expenditure on Original Works.*—The following sums were spent on Original Military and Civil Works :—

	Imperial.	Provincial.	Incorporated Local.	Municipal.	TOTAL.
	Rs.	Rs.	Rs.	Rs.	Rs.
Military	3,38,795	...	...	...	3,38,795
<i>Civil.</i>					
Civil Buildings...	1,90,424	1,98,051	78,447	78,020	5,44,942
Communications ...	11,175	2,02,532	1,22,282	15	3,36,004
Miscellaneous Public Im- provements.	26,544	3,37,506	87,196	2,67,656	7,18,902
	2,28,143	7,38,089	2,87,925	3,45,691	15,99,848
TOTAL	5,66,938	7,38,089	2,87,925	3,45,691	19,38,643

Or about 35 per cent. of the total expenditure, *vide* paragraph 8 onward.

7. *Damages by floods and fire.*—There were but few damages by floods during the year. On the 27th July a heavy flood came down the Baral stream and the Bholi khud and swept away the two heavy dry stone walls at the 32nd mile of the Kangra valley cart road. The road itself was also considerably damaged, and wheeled traffic had to be suspended for two days.

Serious erosion of the river Indus at Dera Ghazi Khan also occurred necessitating the early carrying out of extensive protective works, to prevent the river endangering the safety of the city and cantonments. The work considered immediately necessary was estimated to cost Rs. 5,00,000 with a probable subsequent expenditure of an additional five to seven lakhs ; of the former sum about 3½ lakhs were spent. See para. 28 further on.

The following buildings were accidentally destroyed by fire on the dates specified against each :—

- (1.) Rest-house at Mogal Serai, 12th January 1896.
- (2.) Dharmpur dak bungalow, 18th January 1896, and
- (3.) Government of India, Public Works Secretariat building at Simla, 12th February 1896.

The last two buildings are under reconstruction.

DETAILS OF EXPENDITURE.

8. *Total expenditure.*—The total expenditure of the year amounted to Rs. 59,01,935, *vide* Table A, page 19 of which Rs. 55,86,208 were charged

against the various grants of the general Public Works Budget Estimates prepared by the Local Government as noted below :—

MAJOR SERVICE HEADS.	Works.	Repairs.	Establishment.	Tools and Plant.	Barrack Department.	Suspense.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Imperial Military ...	3,38,795	2,61,625	1,37,899	6,591	13,674 ^(a)	298	7,58,882
„ Civil ...	2,28,143	1,17,781	70,078	4,336	...	483	4,20,821
Provincial do. ...	7,38,089	12,75,681	6,42,846	17,872	...	-39,468	26,35,020
Incorporated Local ...	2,87,925	5,73,935	1,07,926	4,767	...	...	9,74,553
Municipal ...	3,45,691	4,12,527	37,770	944	...	...	7,96,932
Total ...	19,38,643	26,41,549	9,96,519	34,510	13,674	-38,687	55,86,208
Deduct expenditure in England including loss by exchange ...	...	...	...	...	...	...	21,190
Total ...	...	...	...	...	...	...	55,65,018

(a). Includes Rs. 1,242 on account of Establishment charges.

9. *Comparison between Actuals and Budget and Revised Estimates.*—The total actual outlay, the Budget and Revised Estimates of the year, and the actuals of 1894-95 are compared in the following table :—

MAJOR SERVICE HEADS.	Actuals, 1894-95.	1895-96.		
		Budget Estimate.	Revised Estimate.	Actuals.
	Rs.	Rs.	Rs.	Rs.
Imperial Military ...	6,45,813	6,10,500	7,73,500	7,58,882
„ Civil ...	3,49,342	2,89,900	3,92,100	4,20,821
Provincial do. ...	25,21,891	23,54,000	26,53,000	26,35,020
Incorporated Local ...	8,73,795	9,89,000	8,70,000	9,74,553
Municipal ...	6,78,497	12,56,400	(b)	7,96,932
Total ...	50,69,338	54,99,800	46,88,600	55,86,208

(b). No Revised Estimate is prepared.

Imperial Military.—The increase as compared with the actuals of 1894-95 is due mainly to additional expenditure on the works at Wano; water-supply to encamping grounds at Kurrum, Tochi, &c.; Army Head-Quarters buildings at Simla; improving and extending the Khagan valley road; and the river protective works at Dera Ismail Khan. The Revised Estimate was closely worked up to, the Indian outlay having fallen short of it by Rs. 2,881 only.

Imperial Civil.—The increase over the actuals of 1894-95 is due chiefly to the expenditure incurred on water-supply and compensation for land for buildings at Para Chenar in the Kurrum valley. The excess over the Revised Estimate is due partly to the sanctioned grant having been reduced in Budget orders, and partly to expenditure incurred by the Civil Department on levy posts in the Tochi Valley and Southern Waziristan having been transferred to the Public Works Department at the close of the year without an allotment of funds.

Provincial.—The increase over the actuals of the preceding year is due to the large outlay incurred on river protective works at Dera Ghazi Khan. Neither the Budget nor the Revised Estimates anticipated any modifications in the balance of suspense accounts which resulted in a decrease of Rs. 39,468. The actual outlay fell short of the Revised Estimate in consequence of the value of certain machinery obtained from England for the Ambala city water works not having paid for from the funds provided, and, but for the decrease in suspense accounts, the Revised Estimate would have been exceeded.

Incorporated Local.—The outlay of the year exceeded the actuals of 1894-95 by Rs. 1,00,758. The excess being chiefly on original works, Miscellaneous Public Improvements, such as the construction of the Sarusti and Michni-Dalazok Canals in the Karnal and Peshawar Districts, and under head repairs, Communications. The final Revised Estimate was, by an oversight, passed for Rs. 8,70,000 and was exceeded by Rs. 1,04,553.

Municipal.—The modifications made during the year resulted in the grant being reduced from Rs. 12,56,400 to Rs. 10,86,818, and the outlay fell short of it by Rs. 2,89,886. The grant, however, included a provision for the Delhi sewage and water works, and the water works of Amballa and Haripur to the extent of Rs. 2,06,000 as finally adopted, chargeable to Local Loans, and, as such, adjustable in the Civil Department, and, eliminating this amount, the lapse is reduced to Rs. 83,886 only, which, bearing in mind that expenditure is incurred by 148 Municipalities (rendering 37 accounts) under which numerous small lapses occurred, does not seem to be large.

10. *Lapses.*—The following table shows the unavoidable lapses over Rs. 2,000 on Major original works Imperial and Provincial:—

Division.	Locality.	Name of work.	Grant.	Expenditure.	Lapse.
			Rs.	Rs.	Rs.
1. Kohat ...	...	Water-supply at encamping grounds on North-West Frontier road, Section Kohat to Latammar ...	22,730	12,132	10,598
2. Do. ...	Para Chenar...	Militia Lines in the Kurrum valley ...	22,650	13,591	9,059
3. Peshawar ...	...	Nahakki-Charsadda road ...	23,000	19,358	3,642
4. D. G. Khan	D. G. Khan ...	Extending river protective works	1,68,000 (Local Loans).	42,565	1,25,435
5. Simla ...	Simla ...	Purchase and improvements to Hawthorn Villa estate, Simla.	4,000	...	4,000
6. Amballa ...	Amballa ...	Central Jail ...	...	-14,249	14,249
7. Do. ...	Do. ...	Water-supply, Amballa city ...	46,000	26,651	19,349

The explanations of the lapses are as follows:—

1. Due to non-receipt of galvanized iron pipes indented for from England.
2. Do. to savings on estimate, and the omission of verandahs in 12 out of 16 barracks by the order of His Honor the Lieutenant-Governor on the occasion of his visit to Para Chenar in 1893.
3. Do. to land compensation charges unpaid by the Deputy Commissioner, and certain petty savings.
4. Do. chiefly to the delay in completing the railway sidings and running the stone trains, and a misapprehension with regard to payments from the unspent portion of the Municipal contribution chargeable to Local Loans.
5. Do. to delays in the settlement of the validity of the Title Deeds of the Estate.
6. Do. to a write-back of cost of materials at site utilized on other works.
7. Do. to the cost of certain English machinery obtained for the works not having been paid for in England during the year.

44.—MILITARY WORKS.

11. The total expenditure was Rs. 7,58,882, *vide* Table B, page 20. The outlay on major works amounted to Rs. 2,99,151, and minor works to Rs. 39,644, *vide* Appendix A, pages 24 to 27.

12. The following works were completed :—Re-roofing kahar lines in the garrison hospital, Abbottabad ; temporary accommodation for troops in the Post at Wano ; improving the Khagan valley road, section Uttar Shisha to Balakote including the erection of a suspension bridge over the Kunhar river ; metalling and improving the Dera Ismail Khan-Tank-Murtaza road ; military buildings at Para Chenar in the Kurrum valley ; and construction of quarters for four officers and the commandant at Mustan on the Samana.

Those in progress were :—Enlarging the dining room of the officers' mess house, Corps of Guides, Murdan ; additions and alterations to native officers' quarters inside Fort Mardan ; slate flooring for the station and gurkha hospitals, Abbottabad ; improving the Khagan valley road, section from Balakote to Dewanbela ; new encamping grounds at Chichana and Kurrum including water-supply at existing encamping grounds on the North-West Frontier road, section Kohat to Latammar ; improving cantonment water-supply, Edwardesabad ; gymnasium for native troops, Mardan ; additional storey to the two wings of the Army Head-Quarters buildings, Simla ; and the keep of the Post at Wano.

13. The following is a statement of the work done on the more important works :—

Post at Wano.—This post was originally designed for one battalion of native infantry of full strength or 896 rifles, but, by making some slight alterations, it has been remodelled to accommodate a force consisting of one battalion of native infantry of 500 rifles, a squadron of native cavalry and four guns of a native mountain battery. The walls of the keep were built up to plinth level, but the rest of the buildings, *i. e.*, british and native officers' quarters, mess house, barrack for half company, followers' quarters, hospital for 50 patients, and other minor miscellaneous buildings, were completed.

Dera Ismail Khan-Tank-Murtaza road.—The metalling of the remaining two miles in the section from Dera Ismail Khan to Tank (42 miles), and the metalling of 9 miles and the large bridges over the Darwesh Kheyl, Kerani and Khanwind nullahs in the section Tank to Murtaza (19 miles) were completed.

Khagan valley road—

Section from Uttar Shisha to Balakote completed during the year— including the Jaba Rest-house.

Suspension bridge over the Kunhar river at Balakote also completed.

Section Balakote to Dewanbela beyond Manoor ; bridges over the Sangar, Kawai, and Manoor nullas completed ; the left bank pier of the Ghunoul nulla bridge put in ; excavations for the right bank pier commenced ; important diversions in miles 2, 10, 11, 13, 22 and 26 completed, and the Natni nulla, mile 29, half finished.

Military buildings, Para Chenar.—The whole of these buildings were completed. The total expenditure from commencement of work—June 1894, amounted to Rs. 84,462. The work includes the defensible enclosure (the most important portions of which are the keep and the flanking tower), the barracks for men and followers, and the officers' quarters.

14. *Contribution Works.*—Assistance was afforded to the Military Department in connection with the Chitral Relief Expedition in maintaining the Nowshera-Mardan road and strengthening the moorings of the permanent and temporary boat-bridges and providing a second bridge of boats over the Cabul river at Nowshera.

15. The scheme for the utilization of the Tangai spring to supply water for the Lundi Kotal position was completed, and rules for working it issued. The three open tanks for conserving the overflow from the reservoir finally below the General's camp were also approaching completion.

IMPERIAL CIVIL WORKS.

16. The total expenditure was Rs. 4,20,821, *vide* Table B, page 20. The outlay on major works was Rs. 1,38,069 and on minor works Rs. 90,074, *vide* Appendix A, pages 28 to 33.

17. The following works were carried out :—

CIVIL BUILDINGS.

Post Offices.—Additions and alterations to the Post Office at Murree, and to the postmen's quarters at Simla were completed.

Viceregal buildings.—The improvements to the "Retreat" at Mashobra to provide a suburban residence for His Excellency the Viceroy, and the conversion of the "bowling alley" into quarters for the married bandsmen of the Viceregal Lodge at Simla were both completed.

Secretariat buildings.—The glazing in of portions of the upper verandah of the Secretariat buildings at Simla was completed.

Political agencies.—The civil buildings at Para Chenar in the Kurrum valley—of which the more important are :—The bungalows for the officer on special duty and the officers attached to the Kurrum Militia, combined Post and Telegraph office, court-house and buildings for the civil subordinate staff, and the Political Officer's quarters at Wano were completed. The militia lines at Para Chenar were also completed as originally sanctioned, but certain supplementary works considered necessary and sanctioned by His Honor the Lieutenant-Governor to be carried out from savings in the original estimate were put in hand.

The Levy Posts in the Tochi valley were in progress.

A sum of Rs. 18,885 was also paid on account of compensation for land taken up for the civil and military buildings at Para Chenar.

Miscellaneous.—The smithy shed at the Press buildings, Simla, was reconstructed, and some servants' houses provided at Snowdon, the residence of His Excellency the Commander-in-Chief in India.

COMMUNICATIONS.

Metalled roads.—A masonry gap was constructed over the Turkhoba nullah at mile 98 on the North-West Frontier road, Section Latammar to Dera Ismail Khan.

MISCELLANEOUS PUBLIC IMPROVEMENTS.

Water-Supply.—The pipe water-supply for the cantonment and civil station of Para Chenar, in the Kurrum valley, was nearing completion. The main portions, *i. e.*, the head works, distribution tank and reservoir in the Fort were completed, and the pipe-laying pushed on.

PROVINCIAL CIVIL WORKS.

(Including Incorporated Local (District) Municipal and Contribution Works.)

18. Excluding the outlay on Contribution works Rs. 3,37,194, Table D, page 22, the aggregate expenditure amounted to Rs. 44,06,505 of which Rs. 13,71,705 were spent on Original Works; Rs. 22,62,143 on Repairs; Rs. 7,85,542 on Establishments; Rs. 23,583 on Tools and Plant, and there was a reduction in the suspense balance to the extent of Rs. 39,468.

CIVIL BUILDINGS.

Land Revenue.—The works completed were:—Subsidiary buildings of the Deputy Commissioner's Court, and new Tahsil and peons' block at Muzaffargarh; additions and alterations to the Deputy Commissioner's court, to provide record accommodation at Gujrat; new record-room in Deputy Commissioner's court, Shahpur, and the re-roofing of the Deputy Commissioner's court at Kohat: work in connection with the additional accommodation needed for the Deputy Commissioner's court at Multan, was also practically finished and the additions and alterations to the record-room of the District court at Gujranwalla approaching completion.

Excise.—No work of any importance was carried out.

Residences for Local Governments.—The dispensary in the compound of Government house, Lahore, and the re-roofing of Barnes Court at Simla, were both completed. The glazing and extending of the ball room verandah of Barnes Court, Simla, was also practically completed.

Monuments and antiquities.—The following more important buildings of historical or architectural interest were kept in repair:—Memorial cross at Chillianwala; Akburry baoli at Gujrat; General Nicholson's monument at Margalla; Lalla Rookhs' tomb at Hasan Abdal; Fort Rohtas; historical buildings at Delhi, including Humayun's tomb and the Kutab Minor; Sheik Chillis' tomb at Thanesar, Amballa District; Kabil Bagh Mosque and Ibrahim Lodies' tomb at Panipat, Karnal District; Dakni Serai near Nakodar, Jullundur District; Shalimar Gardens, Hazuri Bagh, Ranjit Singh's tomb and Fort at Lahore; Jehangirs' tomb at Shahdera; Sir Henry Durand's tomb at Dera Ismail Khan; and Captain Meham's tomb at Bannu. The Tibba or Rock of Sangla supposed to be the "Sangala" of the Alexandrian invasion of the Punjab in the neighbourhood of the new Railway station at Sangla, 68½ miles from Wazirabad on the Wazirabad-Lyallpur Railway was surveyed and examined by Mr. C. J. Rodgers, M. R. A. S., Honorary Numismatist to the Government of India, and the results published. Some doubt as to the Tibba being associated with the "Sangala" destroyed by Alexander was expressed.

Educational buildings.—Provincial.—The combined boarding house for the Central Training College, Normal school and Central Model school at Lahore, was approaching completion—the inner quadrangle remains to complete the project.

District.—The new school houses at Jagadri, Shujabad and Depalpur were completed, and those at Kalanaur and Gujar Khan were approaching completion. The Jubilee High school at Rohtak was in progress.

Municipal.—The new school house at Kaithal, Primary school at Kasur, and Municipal Board school at Simla, were in progress, and the new Primary school at Fort Sialkot completed.

Law and Justice buildings.—Provincial.—The additions to the Judicial record-rooms of the District court at Ferozepore were completed, and the new Sessions house at Jhelum in progress.

Jail buildings.—Provincial.—The provision of day latrines in the Central Jail at Montgomery and renewing solitary cell doors and lowering open yards in the Central Jail at Lahore were completed. The lock-up at Muzaffargarh was also practically completed, and 40 quarantine cells were under construction at Peshawar.

Police buildings.—Provincial.—The Police buildings and quarters for Inspector and Deputy Inspector of Police at Muzaffargarh; re-roofing and re-flooring Police hospital at Abbottabad; loop-holed border post at Panj Galli on the Black Mountain, and alterations and improvements to the Sadr lines of the border Militia Police at Kohat were all completed. The re-roofing of the Police station at Bahadurgarh was approaching completion.

Municipal.—The new Thana at Rewari was completed and the re-roofing of the Police lines at Simla in progress.

Medical buildings.—Provincial.—Accommodation was provided in the Mayo Hospital, Lahore, for the native paying patients suffering from contagious diseases, and certain additions to the dispensary at Kasauli completed.

District.—The additions to the Pindi Gheb dispensary in the Rawalpindi District were carried out.

Municipal.—The city branch dispensary at Multan was practically completed.

Miscellaneous or General buildings, &c.—Provincial.—The special repairs to the Deputy Commissioner's residence at Muzaffargarh ; fortified 3rd Class Rest-house at Multan ; and the subsidiary bund round the Civil station of Muzaffargarh were completed. The Public Works Rest-house at Lyallpur was practically completed, and the Colonization Officer's quarters at Lyallpur, and residences for the District Superintendent of Police, Muzaffargarh, and Commissioner and Superintendent, Delhi Division, Delhi, in progress.

District.—The new Rest-house at Luddan in the Multan District was nearly finished, and the District bungalow at Jandrak in the Montgomery District in progress.

Contribution Works.—A porch and a new wing were added to the Lady Aitchison's Hospital, and fittings provided to the Jubilee Museum at Lahore.

COMMUNICATIONS.

METALLED AND UNMETALLED ROADS.

Provincial.—Grand Trunk road, Delhi to Lahore, 312 miles.—Cost of maintenance including Rs. 2,198 for special repairs amounted to Rs. 1,90,763 or Rs. 611 per mile.

Lahore and Peshawar road, 275 miles.—Cost of maintenance, including Rs. 5,937 for special repairs, amounted to Rs. 79,278 or Rs. 288 per mile. The bridge over the Wah stream at mile 196 was completed, and that over the Jhablat at mile 201 in progress ; special repairs were also carried out to the Sang Jani bridge at mile 181.

Hazara Trunk road, Hassan Abdal to Muzaffarabad, 85 miles.—Cost of maintenance, including special repairs Rs. 444, amounted to Rs. 23,454 or Rs. 276 per mile. The improvements to the gradients of the approaches to the Sasna nalla were being pushed on to completion.

Murree-Kohalla cart road in the hills, 28 miles.—Cost of maintenance including Rs. 2,314 for special repairs, amounted to Rs. 21,065 or Rs. 752 per mile.

Rawalpindi-Murree road, 39 miles—Of which 25 miles from Baracow to Murree, are in the hills.—Cost of maintenance, including Rs. 4,707 for special repairs amounted to Rs. 36,923 or Rs. 947 per mile.

Amballa-Kalka Simla road, 93 miles—Of which 58 miles, Kalka to Simla, are in the hills.—Cost of maintenance, including Rs. 10,289 for special repairs, amounted to Rs. 95,493 or 1,027 per mile. The construction of coolies' huts and provision of cart sidings at Kanda Ghat and Jablis on the Kalka-Simla section were completed. On the Amballa-Kalka section increased water-way was provided for the Bussi nalla bridge mile 20, and a causeway over the north channel of the Ghaggar river at mile 22.

Kangra Valley Cart road, 73 miles.—Cost of maintenance, including Rs. 1,916 for special repairs, amounted to Rs. 11,538 or Rs. 158 per mile. The bridge over the Guj torrent at mile 46 was completed and protective works at the Lyall viaduct over the Chukki river at mile 8, and partial metalling and improving the section Pathankote to Shahpur, 29 miles, carried out.

Hindustan-Thibet road, 175 miles—Of which only 166 miles are maintained at a cost of Rs. 9,057 (including Rs. 3,110 for special repairs) or Rs. 54 per mile.

Feeder and approach roads.—The feeder roads from Sonapat to Kotana and from Kharkhauda to Narela Railway stations on the Delhi Amballa-Kalka Railway, and from Lyallpur to Raokhannana on the Wazirabad-Lyallpur Railway, in the Chenab Canal Colony, were completed; those from Pindi-Bhattian to Sheikhpura and Phandian to Chiniot Railway station on the latter railway were in active progress.

The approaches to the new railway bridge over the Harro river were completed, and those to the railway bridge over the river Ravi at Shahdera in progress. The left approach to the latter was also being metalled.

Proposals for improving the Nahakki-Charsadda-Mardan road were under consideration. Estimates for improving the section from Nahakki to Charsadda including the provision of equipment for boat-bridges at Adozai over the Cabul river and at Khiali and Jhindi (Charsadda) over the Swat river were sanctioned to the extent of Rs. 41,729 and the works rapidly pushed on.

With regard to the improvements to the section from Charsadda to Mardan estimated to cost Rs. 33,000 round, it was decided to let the work stand over until funds were forthcoming.

The improvements to, and diversion of, drainage in mile 3 of Abbottabad-Murree road, and provision of temporary protective wings to the road bridge over the river Chenab west bank at Shershah were completed.

District.—The works completed were:—A gap on the Tanda road, Jullundur District; adding a span to the bridge over the Aik nalla; and a new bridge at Jessur over the Badli nalla, Sialkot District; metalling a portion of the Rohtak-Kharkhauda road, Rohtak District; temporary bridge on Tanda-Rura road, Hoshiarpur District; two channels in connection with the Shikar bridge, and the new Karnal Khud bridge, Gurdaspur District; two new bridges over the Khanwah and Upper Sohag Canal, Montgomery District; and the metalling of the remaining portions of the Delhi-Najafgarh road in the Delhi District; Saidpur road, Rawalpindi District; 9 miles of the Gujranwala-Hafizabad road, Gujranwala District; pukka flooring of the Shikar bridge, Gurdaspur District; and the new Deg-nalla bridge, Montgomery District, nearly completed.

Those in progress were:—Improving and bridging Karnal-Pehowa road, Karnal District; Hawaid road, Bannu District; metalling portions of the Amritsar-Sialkot road, Sialkot District; Gohana-Panipat road, Rohtak District; strengthening the Binwan bridge on Palampur-Baij Nath road; and constructing the Batala and Aliwal road, Gurdaspur District.

20. *Roads maintained.*—Excluding station roads the total road mileage at the end of the year was 25,831 miles, *viz.*, 2,374 $\frac{1}{4}$ miles metalled and 23,456 $\frac{3}{4}$ miles unmetalled, classified as under:—

	Metalled.	Unmetalled.	Total.
	Miles.	Miles.	Miles.
Imperial	334	517	851
Provincial	1,330 $\frac{1}{2}$	2,622 $\frac{1}{2}$	3,953
District	709 $\frac{3}{4}$	20,317 $\frac{1}{4}$	21,027
TOTAL	2,374$\frac{1}{4}$	23,456$\frac{3}{4}$	25,831

Imperial roads.—The Provincial Public Works Department maintained 684 miles, the Military Works Department 16 miles, and the balance 151 miles, were kept in repair by the District Board Establishment from funds provided by the Superintending Engineers.

Provincial roads.—The Executive Engineers had 3,118½ miles under their direct charge; the Military Works Department kept in repair 27¼ miles within the limits of certain cantonments; and the District Board Establishment maintained the balance 807¼ miles.

District roads.—The Provincial Public Works Department maintained 243¼ miles, and the District Boards the balance or 20,783¾ miles from District funds.

Roads renewed.—Imperial.—62½ miles were renewed during the year; 11½ miles by the Provincial Public Works Department, and 51 miles of frontier roads by the Local Military authorities.

Provincial.—92¼ miles were renewed by the Public Works Department, one mile by Civil officers and half-a-mile by the Military Works Department or 93¾ miles in all.

District.—The Provincial Public Works Department renewed 5 miles and the District Boards, 56¾ miles.

21. *Boat-bridges.*—Boat-bridges were maintained at Khushab over the river Jhelum; at Khushalgarh, Dera Ghazi Khan and Dera Ismail Khan over the river Indus, at Shahdera and Chichawatni over the river Ravi; at Nowshera-Charsadda and Adozai over the Cabul river; at Khiali and Jhindi (Charsadda) over the Swat river; at Daudzai over the Adozai, Nagoman and Shah Alum branches of the Kabul river; at Rajghat, Sanauli, Mirghan Khajipur, Memarpur and Chansa over the Jamna river; and at Dera Gopipur over the Beas.

A boat-bridge over the Kabul river at Kund was also put up as an experimental measure for the transit of traffic from the Swabi and across the border.

22. *Ferries.*—During the rainy season ferries were worked at Khushab and Jhelum over the river Jhelum, at Khushalgarh over the Indus, at Daudzai over the Adozai branch of the Kabul river, at Rajghat, Sanauli Mirghan Khajipur, Memarpur and Chansa over the river Jamna, at Dera Gopipur over the Beas and at Shahdera over the Ravi.

Steam ferry services were also worked over the river Indus at Dera Ismail Khan and Dera Ghazi Khan under the management of the North-Western Railway. The conditions of the working were, however, revised, and it was decided that the Railway Department should continue to work the existing steamers for a fixed annual payment of Rs. 33,000 including 10 per cent. for supervision for a period of five years commencing from the official year 1896-97.

23. The capital cost of all boat-bridges and minor ferries on 31st March 1896 was Rs. 5,47,868, and the cost of their maintenance during the year Rs. 1,35,404.

The financial results of the year were :—

	Rs.
Gross income	1,49,032
Cost of maintenance	1,35,404
	<hr/>
Net income	13,628
4 per cent. on capital cost	21,914
	<hr/>
Net loss on interest	8,286
	<hr/>

The net income credited to Provincial funds from all boat-bridges and major and minor ferries was Rs. 1,84,618 as shown below :—

					Rs.
<i>Receipts.</i>					
Major ferries	...	...	...	...	1,17,616
Minor do.	...	...	...	...	76,187
					<hr/>
Total				...	1,93,803
 <i>Expenditure.</i>					
Establishment	..	...	...	9,006 }	9,185
Contingencies	...	...	...	179 }	
					<hr/>
Net income				...	1,84,618
					<hr/>

The Kohalla suspension bridge over the river Jhelum was leased up to the 15th April 1896, after which it was dismantled; that at Garhi Habibulla over the Kunhar, a tributary of the Jhelum, was free of toll.

24. *Accommodation for travellers.*—*Provincial buildings.*—The levy post for border militia guard at Zarmelan in the Gomal Pass was completed, and the reconstruction of the Dharpur dâk bungalow on the Kalka-Simla cart road and the re-roofing of the Tret dâk bungalow on the Rawalpindi-Murree road in active progress.

District.—The new serai at Shahkot in the Gujranwalla District was completed, the well at Drigri in the Dera Ghazi Khan District nearly so, and the new serai at Beas in the Amritsar District well in hand.

25. *Arboriculture.*—The Provincial operations of the year are summarised as follows :—

Nurseries.—4 acres added, 7·65 acres given up or transferred to groves, leaving a total of 16·04 acres.

Plantations.—0·20 acres of new ground sown, 0·02 acres failed, leaving a balance of 156·18 acres.

Groves.—11·06 acres planted, or transferred from nurseries, 6·16 acres failed, leaving a total of 1156·18 acres.

Avenues.—53·29 miles planted, 40·93 miles failed, leaving a total of 1021·48 miles.

Expenditure Rs. 38,661, income Rs. 32,884, or a loss of Rs. 5,777.

26. *Contribution works.*—New girder bridge at Kohalla.—This bridge was practically completed last year, and opened to traffic on 15th April 1895. The entire road way, right abutment with wing walls, right and left approaches, including metalling, dry stone walling, scuppers, protective blocks, and catch water drains, were completed.

MISCELLANEOUS PUBLIC IMPROVEMENTS.

27. *Improvements to towns.*—*District buildings.*—The district board offices at Delhi and Gujrat were in progress.

Municipal.—A building was purchased for the Hansi municipal office and some stables erected at Amritsar.

Markets.—*Municipal buildings.*—The beef market at Simla, and two slaughter-houses at Peshawar were in progress, and a further payment made for the old museum building at Lahore purchased for use as a market.

Paving and streets.—Municipal.—Certain pavements were carried out at Rewari in the Gurgaon District. The retaining wall below Grand Hotel at Simla, and certain streets in Kalabagh, Bunnu District, were in progress, and funds contributed for the improvements being carried out to the Kirani bridge at Dera in the Dera Ismail Khan District.

Water-supply—Provincial.—Funds were contributed for the Amballa water works and certain small items of expenditure in connection with the Simla water works adjusted. The water-supply for the Thall out-post was completed.

District.—The Sarusti canal in the Karnal District was in progress, and the final surveys and alignment of the Ghaggar canal in the Hissar District and the Michni-Dalazok Canal in the Peshawar District completed. Funds were also contributed for the Amballa water works.

Municipal.—A reservoir at Sirhan village near Simla, and a pucca water-cut at Edwardesabad, Bunnu District, were commenced, and the existing water-supply in the Rawalpindi city extensively distributed. Funds were also provided for the Amballa city water works.

Sewage and drainage works.—Provincial.—Funds were contributed for the Lahore sewage and drainage works in progress.

District.—The work of clearing and improving main drain No. VI at Delhi was completed.

Municipal.—Two large drains at Dera Ismail Khan were completed. The drainage scheme of Dera Ghazi Khan was started and funds provided for the Lahore drainage works. The main outfall sewer at Jhelum was being actively pushed on.

Conservancy.—A conservancy bullock shed was erected at Amritsar and new latrines provided at Hazro in the Rawalpindi District. Harbury's latrines were also provided at Simla.

Miscellaneous works.—Provincial.—Funds were contributed for the Indus river protective works at Dera Ghazi Khan in progress, and for the Dhussi bund in connection with the Beas river protective works completed.

District.—The bund at the Beyn, Gurdaspur District, was approaching completion.

Municipal.—Protective works were provided to guard against the encroachment of the river Jhelum at Pind Dadan Khan and Kuliwal in the suburbs of Pind Dadan Khan.

28. *Contribution works.—Water works at Haripur.*—The estimate for this work was sanctioned for Rs. 49,086. The cast iron pipes and fittings needed were indented for and received during the year and the work actively pushed on.

Water works, Amballa.—The amount of the sanctioned supplementary estimate was Rs. 3,58,595, and the total expenditure to end of 1895-96, Rs. 3,18,488. The work was commenced in November 1893 and completed in March 1896. The progress during the year consisted of:—coverings of wells at head works completed, iron tank with roof covering of city reservoir erected and completed, pipe-laying and pumping station finished, and pumping machinery erected throughout. The work was opened by His Honor the Lieutenant-Governor on the 11th November 1895, and the city, civil lines, and railway station, supplied with water.

Water-supply scheme, Delhi.—Amount of sanctioned estimate Rs. 10,42,227 and outlay to end of 1895-96 Rs. 10,35,295. This work was commenced in December 1890. The concrete arching over the series of wells sunk in 1894-95 was finished, and the entire work completed as contemplated in the sanctioned estimate.

Amritsar water works.—An experimental well 10 feet inside diameter

was sunk 40 feet below water level, about half-a-mile to the south-east of the Tung-Kalan and on the north of the Tung-Dhab; the object being to determine the quality and quantity of water obtainable from the water-bearing ground to the north of Amritsar. Some bacteriological experiments were carried out by Mr. E. H. Hankin, Chemical Examiner and Bacteriologist to the Government of the North-West Provinces and Oudh and Central Provinces, in September 1895, but, as the results were not conclusive, the desirability of further experiments being conducted were under contemplation.

Delhi drainage works.—Estimated cost Rs. 4,49,368.—The intercepting sewers in Chandni Chowk, Faiz bazar, and Fattehपुरi and the Rajghat overflow, were begun and completed during the year. The work remaining to be done consists of ventilators to the section of sewer passing through the cantonment, which was under the consideration of the Military Department.

Lahore sewage and drainage works.—In the city, almost all the drains in sections 1 and 2 have been remodelled and reconstructed on slopes giving a minimum velocity of flow at $2\frac{1}{2}$ feet per second. In Anarkalli the drains which have their out fall towards the city were practically completed, and those which tail into the Chowburji outfall system were under consideration.

The Dhusi bund in connection with the Beas river protective works commenced on 1st February 1895 was completed.

Dera Ghazi Khan protective works.—From the middle of June very sharp erosion set in along the western bank of the river between the north end of the bund made in 1890, and a well marked promontory, about one mile upstream, known as "Steamer Point." The mainstream had taken a sharp bend from the east bank in 1894 bringing the whole force of the stream into this bank, and with the rising of the river strong action set in. Between the middle of June and the middle of July a width of 1,200 feet was cut away. The erosion afterwards became slower, but nothing stopped it, and by the middle of August the Kasturi Canal had been breached. There was a severe strain on the north end of the bund, but though much damaged it fortunately held, and the river falling by the 10th August no further damage was done. The width of the land cut away was over 2,000 feet in the average. After full discussion on the gravity of the question it was decided that measures should at once be taken to extend the protective works upstream and to re-make the north end of the main bund to a much stronger section. Detached heads or groyne heavily pitched with stone connected to a retired spill bund by earthen bunds was the system adopted.

The groyne heads have 660 feet frontage, and are placed with two furlongs clear interval. The general idea being the same as adopted in the North-West Provinces for the protection of the Narora weir and head-works of the Lower Ganges canal on the Ganges river.

The stone for the works had to be railed from quarries in the salt range over 200 miles distant, and then boated across the river Indus.

The work was put under the charge of Mr. Orr, Executive Engineer, and well advanced by the end of March.

It was assumed that the total expenditure would amount to about Rs. 12,50,000 of which Rs. 5,00,000 were required for the works considered immediately necessary, and funds were arranged for accordingly; the contributions being, as in the case of the protective works undertaken in 1889-90 and 1890-91, divided equally between the Government of India, the Provincial Government, and the Municipality of Dera Ghazi Khan.

ESTABLISHMENT.

29. The following table shows the financial adjustment of the outlay on Works and Repairs and Establishment, and the percentage which the charges for

Establishment bear to the expenditure under the former heads :—

Major service heads.	EXPENDITURE.		Establishment per centage.
	Works and repairs.	Establishment.	
	Rs.	Rs.	
Imperial Military	6,00,420	1,37,899	22·97
„ Civil	3,45,924	70,078	20·26
Total Imperial	9,46,344	2,07,977	21·98
Provincial	20,13,774	6,42,846	31·92
Contributions	3,47,572	19,870	5·71
Total Provincial	23,61,342	6,62,716	28·07
Total Imperial and Provincial	33,07,686	8,70,693	26·32
Local District	8,61,860	1,07,926	12·52
Municipal	7,58,218	37,770	4·98

The above percentages do not, however, represent the actual rate on the entire work performed by the various establishments which would be as follows :—

Public Works Establishment.	EXPENDITURE.		Establishment per centage.
	Work and repairs.	Establishment.	
	Rs.	Rs.	
Provincial	31,56,728	8,71,484	27·60
Local District	9,83,947	1,06,148	10·79
Municipal	7,36,751	37,770	5·13

and, if the Provincial establishment had received the uniform rate of 23 per cent. for all work executed by it from Local Funds and other Contributions, the credit would have been Rs. 79,942 instead of Rs. 19,870 and the net Provincial charge would have been reduced from Rs. 6,42,846 to Rs. 5,82,774 and the percentage from 31·92 to 28·94.

The distribution of charges on the entire Provincial establishments amounted to :—

	Cost.	Per centage.
	Rs.	
Direction	2,42,978	7·67
Construction	6,01,296	18·98
Accounts	27,209	85

Direction.—The office of Chief Engineer and Secretary to Government, Punjab, was held by Mr. E. E. Oliver, M. Inst. C. E., till the 2nd November 1895, and by Colonel G. F. L. Marshall, C.I.E., R.E., for the remainder of the year.

The charge of the 1st Circle of Superintendence was held by Mr. J. E. Hilton, Superintending Engineer, from 1st April to 9th May 1895, and from 18th January to 31st March 1896, and by Mr. B. G. Wallis, Superintending Engineer, during the absence of Mr. Hilton on furlough from 10th May 1895 to 17th January 1896; the 2nd Circle was held by Mr. J. M. Campion, Superintending Engineer, throughout the year; and the 3rd Circle by Mr. T. E. Ivens, Superintending Engineer, until the 6th July 1895, and by Lieut.-Colonel J. W. Thurburn, R.E., for the remainder of the year.

The officers absent on long leave during the year were:—

Colonel G. F. L. Marshall, C. I. E., R. E., Chief Engineer, 7 months.

Mr. J. E. Hilton, Superintending Engineer, 8 months.

Mr. T. E. Ivens, Superintending Engineer, 9 months.

Mr. B. Parkes, Executive Engineer, 7 months.

Mr. F. C. Murray, Executive Engineer, 9 months.

Mr. C. H. Barratt, Executive Engineer, 7 months.

Captain H. F. Chesney, R.E., Executive Engineer, 8 months.

Mr. L. F. Robertson, Assistant Engineer, throughout the year, and

Mr. F. W. K. Yeoman, Assistant Engineer, 10 months.

Retirement.—Mr. A. Grant, Assistant Engineer, was permitted to retire from the service with effect from the 23rd December 1895 under the provisions of Government of India, Public Works Department Resolution No. 2873 G., dated 2nd November 1893.

Transfers and deputations.—The services of Lieut.-Colonel J. W. Thurburn and Major H. E. S. Abbott, Royal Engineers, were lent temporarily to the Military Department for employment with the Chitral Relief Force—the former from April to September 1895, and the latter from April to July 1895. Mr. E. E. Oliver, Superintending Engineer, was transferred to the Central Provinces to act as Chief Engineer and Secretary to the Chief Commissioner of those Provinces, and the services of Messrs. J. G. Davis and W. H. Mills, Assistant Engineers, were permanently transferred to the Irrigation Branch of this Department. Mr. F. Farley, Executive Engineer, rejoined the Department from deputation to the Kapurthala State on the 1st June 1895.

Appointments.—The services of Lieutenants G. P. Campbell, H. H. Turner and E. N. Stockley, Royal Engineers, were temporarily placed at the disposal of this Department, and Lieutenants C. P. Gunter, D. Ogilvie and A. A. Crookshank, Royal Engineers, were permanently posted as Assistant Engineers, 3rd Grade.

The total strength of the Engineer Establishment in the General Branch at the beginning of the year was 41 officers, but owing to there being two transfers, one retirement, six appointments, and one officer having returned from deputation, the strength at the end of the year stood at 45.

Accounts.—The office of the Examiner, Public Works Accounts, Punjab was held by Rai Pandit Prem Nath, Bahadur, throughout the year.

Commendations.—Mr. E. E. Oliver was thanked by the Government of India for ability and industry displayed in connection with Mr. Lyall's Committee on Public Works, 1894; Mr. J. M. Campion, Superintending Engineer, and Mr. C. E. V. Goument, Executive Engineer, were commended by His Honor the Lieutenant-Governor at the opening ceremony of the Amballa city water works, on the 11th November 1895, and Major H. E. S. Abbott, R. E., who was

appointed Field Engineer, line of communication, Chitral Relief Force, was also highly commended by His Excellency the Commander-in-Chief, and for his services in this Expedition was appointed a Companion of the Distinguished Service Order in January 1896.

30. *Assistance rendered by the Provincial Public Works Department.*—The work undertaken for District Boards and Municipalities is summarised below :—

CIRCLE.	ESTIMATES AND PLANS CHECKED.		PROJECTS PREPARED.		WORKS INSPECTED.	WORKS UNDERTAKEN BY PUBLIC WORKS DEPARTMENT.	
	No.	Amount.	No.	Amount.		No.	Amount.
		Rs.		Rs.			Rs.
First	11	59,209	2	8,795	1	1	49,000
Second	39	1,84,458	31	15,93,608	47	19	4,05,600
Third	30	1,87,788	6	18,569	4	2	73,539
Total	80	4,31,455	39	16,20,972	52	22	5,28,139

31. *Works of public utility.*—Miscellaneous works of public utility were constructed by private individuals, from private contributions at a cost of Rs. 41,700.

The major works executed were :—

District.	Constructed by	Description of work.	Cost.
			Rs.
Peshawar	Ralla Ram and Salig Ram, Merchants and Bankers.	A public garden of 1½ acres at Peshawar	2,800
Shahpur	Attar Chand	Serai near Railway Station, Khushab	3,000
Hissar	Narsing Dass	Pucca Dharmsala at Bhiwani Railway Station.	10,200
Amritsar	Dholan Dass, Honorary Magistrate.	New clock in the Clock Tower near the Golden Temple.	3,000
Do.	Mussammats Kishen Kour and Prem Kour of Amritsar.	Pucca well, tank, and house at village Nowrangabad.	11,000
Gurdaspur	Thakur Dass and Jai Gopal.	Serai at Dunera	2,500

32. *Inspections.*—The Divisional offices were all inspected either by the Examiner, Public Works Accounts, Punjab, or the Superintending Engineers, and were found generally to be in good order.

33. *Revenue receipts.*—The following table shows the receipts realized

as compared with the actuals of 1894-95 and the Budget and Revised Estimates of the year :—

MAJOR HEADS.	Funds.	Actuals, 1894-95.	1895-96.		
			Budget Estimate.	Revised Estimate.	Actuals.
		Rs.	Rs.	Rs.	Rs.
XXXI. Military Works ...	Imperial ...	5,467	5,000	5,000	5,864
	Do. ...	27,881	40,000	45,000	47,806
XXXII. Civil Works ...	Provincial ...	55,161	50,000	76,000	90,047
	Incorporated Local	515	1,000	2,000	2,181
	Total ...	89,024	96,000	1,28,000	1,45,898

The large difference between the Revised Estimate and actuals against Provincial is due to sales of buildings and produce sanctioned subsequent to the passing of the Revised Estimate.

TABLE A.

Statement showing the Public Works expenditure incurred by the Punjab Provincial, District, and Municipal Fund Public Works Establishments during 1895-96.

HEADS.	EXPENDITURE.							REMARKS.
	Imperial Military.	Imperial Civil.	Provincial.	District.	Municipal and Leas.	Private and other funds.	Total.	
<i>By Provincial Public Works Establishment.</i>								
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Works	3,32,795	2,23,143	7,29,366	10,725	2,00,762	1,13,936	16,21,727	
Repairs	2,59,733	1,17,781	11,35,338	18,146	1,503	2,495	15,35,001	
Barrack Department	12,432	...	...	...	...	...	12,432	
Tools and Plant	6,591	4,336	17,872	273	7	845	29,929	
Establishment charges	6,17,551	3,50,260	18,32,576	29,149	2,02,377	1,17,276	31,99,089	
	1,39,141	70,073	6,42,395	2,229	4,633	13,003	8,71,484	
TOTAL	7,56,692	4,20,338	25,24,971	31,373	2,06,915	1,30,279	40,70,573	
<i>By District Fund Public Works Establishment.</i>								
Works ... ..	...	...	3,733	2,77,200	...	...	2,85,923	
Repairs	1,892	...	1,40,343	5,55,789	...	...	6,98,024	
Tools and Plant ... ..	...	...	...	4,439	...	...	4,439	
Establishment charges	1,892	...	1,49,066	8,37,473	...	...	9,88,436	
	...	...	451	1,05,697	...	...	1,06,143	
TOTAL	1,892	...	1,49,517	9,43,175	...	...	10,94,584	
<i>By Municipal Fund Public Works Establishment.</i>								
Works ... ..	...	...	...	...	3,24,224	...	3,24,224	
Repairs ... ..	...	...	...	...	4,11,527	...	4,12,527	
Tools and Plant ... ..	...	...	...	...	944	...	944	
Establishment charges ... ..	...	...	...	...	7,37,693	...	7,37,693	
	...	...	...	...	37,770	...	37,770	
TOTAL ... ..	...	...	...	...	7,75,465	...	7,75,465	
Suspense account	298	433	-39,463	...	...	...	33,687	
GRAND TOTAL	7,58,882	4,20,821	26,35,020	9,74,553	9,22,380	1,30,279	59,01,935	

TABLE B.

Statement of expenditure from Imperial Funds on Public Works during 1895-96.

DETAILS.						Original works.	Repairs.	Total.
IMPERIAL.						Rs.	Rs.	Rs.
44.—MILITARY WORKS.								
Buildings for accommodation of European troops	...	...	...	...	...	1,748	1,601	3,349
Do. do. Native troops	...	...	...	...	...	1,14,843	33,567	1,48,410
Ordnance buildings	...	...	...	...	...	181	1,368	1,499
Commissariat buildings	...	...	...	...	...	...	267	267
Staff and miscellaneous	...	...	...	...	...	25,042	5,380	30,422
Roads to hill stations or lines of military communication	...	...	...	...	...	1,36,529	1,56,025	2,92,554
General cantonment works	...	...	...	...	...	7,458	44,701	52,159
Stud buildings	...	...	...	...	...	...	1,691	1,691
Fortifications	...	...	...	...	...	53,044	16,729	69,773
Rent of buildings or compensation for quarters	...	...	...	...	...	...	296	296
Total						3,38,795	2,61,625	6,00,420
Establishment	...	...	...	...	...	...	...	1,37,899
Tools and Plant	...	...	...	...	...	...	...	6,591
Barrack Department (exclusive of establishment)	...	...	...	...	...	10,216	2,216	12,432
Establishment	...	...	...	...	...	...	...	1,242
Suspense	...	...	...	...	...	...	...	298
Grand Total, Military Works						...	...	7,53,882
<i>Deduct—</i>								
(a) Credits to "Expenditure in England" @ 2 shillings per rupee	...	...	...	...	...	...	...	2,479
(b) Credits to "Loss by Exchange" at estimated average rate of Secretary of State's drawings for value of English stores received and other items charged off finally in England	...	...	...	...	...	...	...	1,884
Net expenditure in India, Imperial Military Works						...	...	7,54,519
IMPERIAL.								
45.—CIVIL WORKS.								
<i>Civil Buildings.</i>								
Post offices	...	...	...	...	...	16,229	16,681	32,970
Telegraph buildings	...	...	...	...	...	2,078	5,796	7,874
Administration	...	...	...	...	...	1,43,546	62,773	2,06,319
Miscellaneous	...	...	...	...	...	28,511	15,402	43,913
Total Civil Buildings						1,90,424	1,00,652	2,91,076
<i>Communications.</i>								
Metalled and bridged roads	...	...	...	...	...	6,698	...	6,698
Unmetalled roads	...	...	...	...	...	2,425	14,076	16,501
Accommodation for travellers	...	...	...	...	...	2,032	2,465	4,517
Total Communications						11,175	16,541	27,716
<i>Miscellaneous Public Improvements.</i>								
Water-supply	...	...	...	...	...	26,544	...	26,544
Miscellaneous	...	...	...	...	...	...	588	588
Total Miscellaneous Public Improvements						26,544	588	27,132
Total						2,28,143	1,17,781	3,45,924
Establishment	...	...	...	...	...	...	...	70,078
Tools and Plant	...	...	...	...	...	...	...	4,336
Suspense balance	...	...	...	...	...	...	...	483
Grand Total, Imperial Civil Works						...	...	4,20,821
<i>Deduct—</i>								
(a) Credits to "Expenditure in England" @ 2 shillings per rupee	...	...	...	...	...	...	...	9,562
(b) Credits to "Loss by Exchange" at estimated average of Secretary of State's drawings for value of English stores received and other items charged off finally in England	...	...	...	...	...	...	...	7,265
Net expenditure in India, Imperial Civil Works						...	...	4,03,994

TABLE C.

Statement of expenditure on Public Works from Provincial, Local (Incorporated) District, and Municipal Funds during 1895-96.

HEADS.	PROVINCIAL FUNDS.		INCORPORATED LOCAL DISTRICT FUNDS.		MUNICIPAL FUNDS.		GRAND TOTAL.			
	Original works.	Repairs.	Original works.	Repairs.	Original works.	Repairs.	Original works.	Repairs.		
CIVIL BUILDINGS.										
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Administration ...	55,005	60,399	4,102	13,206	...	2,358	59,107	75,954		
Minor Departments ...	...	8,863	...	25	...	...	...	8,888
Law and Justice ...	24,265	10,251	47	5,963	123	507	24,435	16,721		
Ecclesiastical ...	2,757	12,777	...	46	...	13	2,757	12,836		
Jails ...	21,632	41,096	...	...	...	...	21,632	41,096
Police ...	32,130	53,503	20	...	6,607	7,475	38,817	60,978		
Educational ...	9,941	7,309	51,658	36,532	58,889	11,153	1,19,988	54,994		
Medical ...	9,248	6,912	7,549	13,706	11,582	16,297	28,379	36,915		
Miscellaneous ...	43,013	19,469	15,071	15,227	1,319	1,267	59,403	35,963		
Total ...	1,98,051	2,20,570	78,447	84,705	78,020	39,070	3,54,518	3,44,345		
COMMUNICATIONS.										
Metalled roads ...	A. Bridged and drained throughout		79,417	6,59,841	20,157	1,36,741	...	-383	90,574	7,96,199
	B. Partially bridged and drained	8,341	21,122	8,341	21,122
Unmetalled roads ...	A. Bridged and drained throughout		97,387	1,23,997	22,245	61,442	1,19,632	1,85,439
	B. Partially bridged and drained ...		4,472	13,168	43,451	1,26,221	47,923	1,39,389
Roads ...	Banked and surfaced with "Muram" or similar material, but not drained	4,000	...	477	4,477
	Banked but not surfaced partially bridged and drained	1,802	...	7,008	8,810
	Cleared, partially bridged and drained	14,450	22,649	14,450	22,649
	Cleared only ...		2,908	28,229	4,061	22,974	6,969	51,203
	Boat-bridges and ferries ...		527	1,27,703	30	5,847	557	1,33,550
	Accommodation for travellers ...		17,821	41,428	9,547	26,015	15	3,730	27,383	73,173
	Arboriculture	19,712	6,351	...	26,063
Total ...	2,02,532	10,19,880	1,22,282	4,32,496	15	9,698	3,24,829	14,62,074		
MISCELLANEOUS PUBLIC IMPROVEMENTS.										
Improvements to towns ...	-8,774	1,352	2,937	2,286	16,724	26,327	10,287	29,965		
Water-supply ...	30,267	449	61,452	27,855	37,770	23,874	1,29,439	52,178		
Markets ...	...	...	...	39	31,683	5,208	31,683	5,247
Paving and streets ...	175	30,847	475	14,491	80,226	2,64,748	80,876	3,10,086		
Lighting ...	...	...	...	...	876	178	876	178
Sewage and drainage ...	11,028	115	13,845	5,402	66,828	31,036	91,701	36,553		
Conservancy ...	...	...	12	18	19,595	7,273	19,607	7,291
Miscellaneous ...	3,04,810	2,468	9,075	6,643	13,954	5,115	3,27,839	14,226		
Total ...	3,37,506	35,231	87,196	56,734	2,67,656	3,63,759	6,92,358	4,55,724		
	7,33,089	12,75,681	2,87,325	5,73,935	3,45,691	4,12,527	13,71,705	22,62,143		
Total Works and Repairs ...	20,13,770		8,61,860		7,58,213		36,33,848			
Establishment ...	6,42,846		1,07,926		37,770		7,88,542			
Tools and Plant ...	17,372		4,767		944		23,583			
Suspense balance ...	-39,468		.....		.....		-39,468	
GRAND TOTAL ...	26,35,020		9,74,553		7,96,932		44,06,505			

TABLE D.

Statement of expenditure on Contribution works from Municipal, Private and other funds during 1895-96.

HEADS.	MUNICIPAL AND LOCAL LOANS.		PRIVATE AND OTHER FUNDS.		GRAND TOTAL.	
	Original works.	Repairs.	Original works.	Repairs.	Original works.	Repairs.
CONTRIBUTIONS.						
CIVIL BUILDINGS.						
Minor Departments	...	...	1,378	...	1,378	...
Jails	...	...	314	...	314	...
Educational	...	...	54	...	54	...
Medical	...	...	3,045	...	3,045	...
Miscellaneous	...	...	20	...	20	...
Total	...	...	4,811	...	4,811	...
COMMUNICATIONS.						
Metalled roads bridged and drained throughout	...	...	17,484	1,084	17,484	1,084
Total	...	...	17,484	1,084	17,484	1,084
MISCELLANEOUS PUBLIC IMPROVEMENTS.						
Improvements to towns	...	72	...	...	...	72
Water supply	74,469	1,086	2,380	204	76,849	1,290
Sewage and drainage	88,289	...	935	...	89,224	...
Miscellaneous	38,004	350	5,242	1,207	43,246	1,557
Total	2,00,762	1,508	8,557	1,411	2,09,319	2,919
	2,00,762	1,508	30,852	2,495	2,31,614	4,003
Works done for Military and other departments	...	...	83,084	...	83,084	...
Establishment	4,536	102	12,779	224	17,315	326
Tools and Plant	...	7	830	15	830	22
Total Contributions	2,05,298	1,617	1,27,545	2,734	3,32,843	4,351
TOTAL WORKS AND REPAIRS	2,06,915		(a) 1,30,279		3,37,194	

(a). Private funds ... 34,139
Other departments ... 67,202

Total ... 1,01,341

TABLE E.

Provincial Public Works Department Establishment charges and expenditure incurred by such Establishment during the official year 1895-96.

Circle.	Public Works Divisions.	Cost of establishment.	EXPENDITURE ON WORKS AND REPAIRS EXCLUDING COST OF ESTABLISHMENT, SUSPENSE, AND TOOLS AND PLANT.						Percentage of establishment to outlay.
			Imperial.	Provincial.	Local Incorporated.	Municipal and Loans.	Private and other Funds.	Total.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
First	Peshawar	60,967	1,12,194	1,93,834	...	15,611	67,916	3,09,555	15.65
	Rawalpindi	70,233	16,294	2,77,509	1,000	512	18,598	3,13,913	22.37
	Kohat	46,044	2,07,210	44,526	...	393	335	2,52,464	18.23
	Total Executive	1,77,244	3,35,693	5,15,869	1,000	16,516	86,849	9,55,932	18.54
	Superintending Engineer	36,946	...	...	...	...	...	...	3.86
Second	Amballa	51,969	4,146	1,90,359	3,143	60,011	...	2,63,159	19.74
	Simla	53,412	2,13,786	1,10,290	...	187	88	3,24,351	16.46
	Dehi	51,591	5,147	1,00,631	14,861	37,715	12,403	2,20,767	24.72
	Jalandhar	62,186	3,034	2,41,294	4,031	...	6,430	2,55,509	24.38
	Total Executive	2,22,149	2,26,113	6,43,074	27,635	1,47,923	18,921	10,63,866	20.88
	Superintending Engineer	37,417	...	...	...	...	...	...	3.51
Third	Lahore	83,265	3,771	2,73,729	...	-173	8,260	2,85,587	29.15
	Dera Ismail Khan	75,789	3,66,086	40,851	...	...	2,201	4,09,138	18.52
	Dera Ghazi Khan	42,849	25,102	3,91,144	36	38,004	200	4,54,486	9.42
	Total Executive	2,01,903	3,94,959	7,05,724	36	37,831	10,661	11,49,211	17.57
	Superintending Engineer	40,441	...	...	...	...	...	...	3.52
Direction Accounts	Chief Engineer and Secretary	1,28,174	...	...	...	...	...	...	4.04
	Examiner, Public Works Accounts (88,933-61,729)	27,209	...	...	...	...	...	...	0.85
	Examiner, Auxiliary Accounts, percentages on Military works and repairs.	...	114	38	...	...	...	152	...
	TOTAL	8,71,483	9,56,884	18,64,705	28,871	2,02,470	1,16,431	31,69,161	27.5

(23)

Statement of expenditure on Imperial Military

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
44—IMPERIAL MILITARY WORKS.				
<i>Accommodation for troops.</i>				
Enlarging the dining room of the Officers' Mess house, Corps of Guides, Mardan	1	4,405	...	1,495
Additions and alterations to Native Officers' quarters inside Fort Mardan	2	6,985	...	3,997
Slate flooring for the station and goorkha hospitals at Abbottabad	3	6,904	...	7,047
Re-roofing with sheet iron the old garrison hospital at Abbottabad	4	5,924	6,125	— 2
Re-roofing Kahar lines in the garrison hospital, Abbottabad	5	3,315	...	3,457
New lines for Native Infantry, Kohat	6	...	...	89
Providing temporary accommodation for troops in the post at Wauo	7	83,523	1,102	79,850
Minor works ... ..	...	...	...	20,658
Total ... ..	...	...	7,227	1,16,591
<i>Ordnance buildings.</i>				
Minor works ... ..	...	...	...	131
Total ... ..	...	...	...	131
<i>Lines of military communications.</i>				
Improving the road through Khagan valley—	1			
Mule road from Uttar Shisha to Balakot	(a)	27,088	17,460	10,978
Suspension bridge over Kunhar river at Balakot	(b)	29,853	15,186	16,073
Improving and converting into a mule road the section from Balakot to Diwanbela beyond Manoor	(c)	1,42,198	5,518	30,051
North-West Frontier road—	2			
Water-supply at encamping grounds on section Kohat to Latammar	(a)	23,631	233	12,132
Encamping grounds at Kurram and Chichana on the section Kohat to Latammar.	(b)	4,946	1,621	...
Metalling and improving the Dera Ismail Khan Tank-Murtza road	3	3,59,586	3,00,945	58,829
Minor works ... ..	...	...	...	8,466
Total ... ..	...	...	3,40,963	1,36,529

DIX A.

major and minor works during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
1,495	March 1896 ...	In progress ...	1	
3,997	December 1895...	Do. ...	2	
7,047	October 1895 ...	Do. ...	3	
6,123	May 1895 ...	Completed ...	4	
3,457	July 1895 ...	Do. ...	5	
89	April 1895 ...	In progress ...	6	
80,952 20,658	March 1895 ...	Completed ...	7	
1,23,818				
131				
131				
28,438 31,259	May 1894 ... Do. ...	Completed ... Do. ...	1 (a) (b)	
35,569	January 1895 ...	In progress ...	(c)	
12,365	March 1893 ...	In progress ...	2 (a)	
1,621	March 1895 ...	Do. ...	(b)	
3,59,774 8,466	February 1893 ...	Completed ...	3	Includes Rs. 21,065 Provincial portion.
4,77,492				

Statement of expenditure on Imperial Military

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
44.—IMPERIAL MILITARY WORKS—				
<i>concluded.</i>				
<i>General cantonment works.</i>				
Improving cantonment water-supply at Edwardesabad ...	1	4,745	...	3,186
Minor works ...	...	...	...	4,272
Total ...	...	...	...	7,458
<i>Staff and miscellaneous.</i>				
Constructing Guides' Memorial, Mardan ...	1	28,893	28,802	27
Gymnasium for Native troops, Mardan ...	2	3,868	...	3,642
Adding a story to the two wings of the Army Head-Quarters buildings at Simla ...	3	56,406	...	20,003
Minor works ...	...	...	...	1,370
Total ...	...	...	28,802	25,042
<i>Fortifications.</i>				
Constructing military buildings, Para Chenar, Kurram Valley ...	1	83,077	54,554	29,908
Reconstruction of quarters for four officers and Commandant, Mustan ...	2	20,609	3,573	20,809
Providing a pipe water-supply for the cantonment and civil station of Para Chenar, Kurram Valley ...	3	31,920	5,684	—5,684
Constructing a keep in the post at Wano ...	4	20,657	48,695	3,264
Minor works ...	...	...	...	4,747
Total ...	...	...	1,12,506	53,044
TOTAL MILITARY WORKS ...	...	...	4,89,498	3,38,795

DIX A.

major and minor works during 1895-96—concluded.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
3,186	June 1895 ...	In progress ...	1	
4,272				
7,458				
28,829	September 1890	Completed ...	1	
3,642	March 1896 ...	In progress ...	2	
20,003	March 1896 ...	Do. ...	3	
1,370				
53,844				
84,462	June 1894 ...	Completed ...	1	
24,382	February 1895 ...	Do. ...	2	
...	March 1895 ...	Do. ...	3	
51,959	January 1895 ...	In progress ...	4	Transferred to Imperial Civil Works. This work was shown in 1894-95 under General Cantonment Works.
4,747				
1,65,550				
8,28,293				

Statement of expenditure on Imperial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
45.—IMPERIAL CIVIL WORKS.				
CIVIL BUILDINGS.				
<i>Post Offices.</i>				
Additions and alterations to the Post office at Murree ...	1	4,333	...	4,340
Alterations to postmen's quarters at the Simla Post office	2	3,409	...	3,379
Minor works ... ..		...	...	8,570
Total ...		...	...	16,289
<i>Telegraph.</i>				
Minor works ... ..		...	...	2,078
Total ...		...	...	2,078
<i>Viceregal buildings.</i>				
Improving the "Retreat" at Mashobra, Simla, to provide a suitable suburban residence for His Excellency the Viceroy	1	21,288	17,534	8,563
Converting bowling alley into quarters for married bandsmen of Viceregal Lodge, Simla	2	8,451	...	8,874
Minor works ... ..		...	...	36,378
Total ...		...	17,534	53,815
<i>Secretariat buildings.</i>				
Glazing in portions of upper verandah of the Secretariat buildings at Simla	1	4,046	...	3,612
Minor works ... ..		...	...	15,202
Total ...		...	...	18,814

DIX A.

Civil major and minor works during 1895-96.

Total outlay to end of 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
4,340	June 1895 ...	Completed ...	1	
3,379	Do. ...	Do. ...	2	
8,570				
16,289				
2,078				
2,078				
26,097	October 1894 ...	Completed ...	1	
8,874	May 1895 ...	Do. ...	2	
36,878				
71,849				
3,612	August 1895 ...	Completed ...	1	
15,202				
18,814				

Statement of expenditure on Imperial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
45.—IMPERIAL CIVIL WORKS—continued.		Rs.	Rs.	Rs.
CIVIL BUILDINGS—continued.				
<i>Political Agencies.</i>				
Construction of civil buildings at Para Chenar in Kurram Valley	1	83,246	80,959	6,195
Ditto Militia Lines ditto ...	2	61,485	36,298	13,592
Compensation for land taken up for civil and military buildings at Para Chenar	3	...	...	18,885
Constructing Political Officer's quarters at Wano ...	4	7,294	12	7,278
Constructing levy posts in the Tochi valley	5	...	...	21,308
Minor works ... ..		...	...	3,659
Total ...		...	1,17,269	70,917
<i>Miscellaneous.</i>				
Re-building, retaining wall and re-constructing smithy shed at Press buildings, Simla	1	4,899	...	4,324
Minor works ... ..		...	...	24,187
Total ...		...	...	28,511
TOTAL CIVIL BUILDINGS ...		...	1,34,803	1,90,424
COMMUNICATIONS.				
METALLED ROADS.				
<i>Bridged and drained throughout.</i>				
North-West Frontier road, section Latammar to Dera Ismail Khan—masonry gap at Turkhoba nalla ...	1	3,494	...	3,597
Minor works ... ..		...	...	3,101
Total ...		...	...	6,698

DIX A.

Civil major and minor works during 1895-96—continued.

Total outlay to end of 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
87,154	October 1893 ...	Completed ...	1	
49,890	September 1893	In progress ...	2	
18,887	December 1895...	Completed ...	3	
7,290	March 1895 ...	Do. ...	4	
21,308	March 1896 ...	In progress ...	5	
3,659				
1,88,186				
4,324	May 1895 ...	Completed ...	1	
24,187				
28,511				
3,25,227				
3,597	July 1895 ...	Completed ...	1	
3,101				
6,698				

Statement of expenditure on Imperial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1896.	Expenditure during 1895-96.
45.—IMPERIAL CIVIL WORKS—concluded.		Rs.	Rs.	Rs.
COMMUNICATIONS—concluded.				
<i>Unmetalled roads.</i>				
Minor works ... ..		...	...	2,425
Total ... ..		...	...	2,425
<i>Accommodation for travellers.</i>				
Minor works ... ..		...	...	2,052
Total ... ..		...	...	2,052
TOTAL COMMUNICATIONS ...		...	...	11,175
MISCELLANEOUS PUBLIC IMPROVEMENTS.				
<i>Water-supply.</i>				
Providing a pipe water-supply for the cantonment and civil station, Para Chinar, in Kurram valley ...	1	31,920	...	26,544
TOTAL MISCELLANEOUS PUBLIC IMPROVEMENTS ...		...	...	26,544
TOTAL IMPERIAL CIVIL WORKS ...		...	1,34,803	2,28,143

DIX A.

Civil major and minor works during 1895-96—concluded.

Total outlay to end of 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
2,425				
2,425				
2,052				
2,052				
11,175				
26,544	March 1895 ...	In progress ...	1	
26,544				
3,62,946				

Statement of expenditure on Provincial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
45.—PROVINCIAL WORKS.				
CIVIL BUILDINGS.				
ADMINISTRATION.				
<i>Land Revenue buildings.</i>				
Additional accommodation for Deputy Commissioner's Court at Multan	1	4,403	4,323	36
Subsidiary buildings, Deputy Commissioner's Court, Muzaffargarh	2	5,776	5,204	1,032
New tehsil and peon's block at Muzaffargarh... ..	3	12,066	9,465	2,035
Additions and alterations to record-room of District Kutcherry, Gujranwalla	4	19,755	...	15,783
Additions and alterations to the Deputy Commissioner's Court, Gujrat, to provide record accommodation	5	11,892	11,586	580
New record-room, Deputy Commissioner's Court, Shahpur	6	9,165	8,789	6
Re-roofing Deputy Commissioner's Court, Kohat	7	4,949	4,566	453
Minor works ... ..		...	...	11,847
Total ... ..		...	43,933	31,772
<i>Excise buildings.</i>				
Minor works ... ..		...	...	889
Total ... ..		...	...	889
<i>Residences for Local Governments.</i>				
Dispensary in the compound of Government House, Lahore	1	3,831	...	3,851
Re-roofing Barnes Court at Simla	2	3,635	2,601	1,000
Extending and glazing portion of ball-room verandah, Simla	3	7,634	...	7,215
Glazing remaining portion of ditto ditto	4	2,863	...	2,776
Minor works ... ..		...	...	3,086
Total ... ..		...	2,601	17,928
<i>Secretariat Offices.</i>				
Minor works ... ..		...	...	4,416
Total ... ..		...	...	4,416
EDUCATIONAL.				
<i>Government Schools.</i>				
Combined boarding house for the Central Training College, Normal School and Central Model School, Lahore	1	51,915	42,625	7,329
Minor works ... ..		...	...	1,581
Total ... ..		...	42,625	8,910

DIX B.

major and minor works during 1895-96.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
4,359	December 1894...	In progress ...	1	
6,236	Do. ...	Completed ...	2	
11,500	November 1894	Do. ...	3	
15,783	December 1895...	In progress ...	4	
12,166	July 1894 ...	Completed ...	5	
8,795	March 1894 ...	Do. ...	6	
5,019	November 1894...	Do. ...	7	
11,847				
75,705				
889				
889				
3,851	August 1895 ...	Completed ...	1	
3,601	March 1895 ...	Do. ...	2	
7,215	November 1895...	In progress ...	3	
2,776	December 1895...	Do. ...	4	
3,086				
20,529				
4,416				
4,416				
49,954	November 1893	In progress ...	1	
1,581				
51,535				

Statement of expenditure on Provincial

Name of work.				Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
					Rs.	Rs.	Rs.
45.—PROVINCIAL WORKS—continued.							
CIVIL BUILDINGS—continued.							
EDUCATIONAL—continued.							
Government Colleges.							
Minor works	...	...	...	...	...	...	1,031
Total				...	...	...	1,031
Total Educational				...	...	42,625	9,941
ECCLESIASTICAL.							
Churches.							
Minor works	...	...	...	...	...	...	2,096
Total				...	...	...	2,096
Burial grounds.							
Minor works	...	...	...	...	...	...	661
Total				...	...	...	661
Total Ecclesiastical				...	...	...	2,757
LAW AND JUSTICE.							
Chief Court.							
Minor works	...	...	...	...	...	...	2,595
Total				...	...	...	2,595
District courts.							
New Sessions house, Jhelum	...	...	...	1	21,422	...	14,862
Additions to the Judicial record-room of the District Court, Ferozepore	...	...	...	2	3,130	...	3,295
Minor works	...	...	...	...	...	...	3,513
Total				...	...	...	21,670
Total Law and Justice				...	...	...	24,265

DIX B.

major and minor works during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
1,031				
1,031				
52,566				
2,096				
2,096				
661				
661				
2,757				
2,595				
2,595				
14,862	August 1895 ...	In progress ...	1	
3,295	February 1896 ...	Completed ...	2	
3,513				
21,670				
24,265				

Statement of expenditure on Provincial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
45.—PROVINCIAL WORKS—continued.				
CIVIL BUILDINGS—continued.				
JAILS.				
<i>Central Jails.</i>				
Central Jail at Montgomery	1	3,55,642	3,30,466	-4,378
Day latrines, Central Jail, Montgomery	2	2,728	2,126	479
Renewing solitary cell doors and lowering walls of open yards, Central Jail, Lahore	3	3,029	3,349	-184
Central Jail at Amballa	4	1,32,958	1,08,753	-14,249
Minor works ... ..		...	...	2,443
Total ... ..		...	4,44,694	-15,887
<i>District Jails.</i>				
Construction of forty quarantine cells at Peshawar	1	20,487	...	8,491
Minor works ... ..		...	...	7,598
Total ... ..		...	...	16,089
<i>Lock-ups.</i>				
Constructing lock-up at Muzaffargarh	1	24,282	7,461	18,480
Minor works ... ..		...	...	2,950
Total ... ..		...	7,461	21,480
Total Jails ... ..		...	4,52,155	21,632
<i>Police.</i>				
Special repairs to Police thanah (late McGuffin's Hotel) at Dalhousie	1	4,085	4,439	886
Constructing Police buildings at Muzaffargarh	2	17,454	10,587	7,695
Constructing quarters for Inspector and Deputy Inspector of Police at Muzaffargarh	3	2,987	2,260	1,025
Re-roofing and re-flooring the Police hospital at Abbottabad	4	2,784	...	2,837
Loop-holed border posts at Punjgally Barchor, Pabalgalli and Sherkulli Kundas on the Black Mountain	5	16,556	4,499	448
Alterations and improvements to the Sadr lines of Border Military Police, Kohat	6	3,839	1,686	2,834
Re-roofing Police station at Bahadurgarh	7	2,817	...	2,494
Minor works ... ..		...	...	14,971
Total ... ..		...	23,471	32,190

DIX B.

major and minor works during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
3,26,090	August 1890 ...	Completed ...	1	
2,605	March 1895 ...	Do. ...	2	
3,165	September 1893	Do. ...	3	
94,504	May 1891 ...	Suspended ...	4	
2,443				
4,28,807				
8,491	February 1896 ...	In progress ...	1	
7,598				
16,089				
25,941	March 1895 ...	In progress ...	1	
2,950				
28,891				
4,73,787				
4,825	August 1894 ...	Completed ...	1	
18,282	February 1895 ...	Do. ...	2	
3,285	Do. ...	Do. ...	3	
2,837	January 1896 ...	Do. ...	4	
4,947	August 1894 ...	In progress ...	5	
4,020	February 1895 ...	Completed ...	6	
2,494	July 1895 ...	In progress ...	7	
14,971				
55,661				

Statement of expenditure on Provincial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
45.—PROVINCIAL WORKS—continued.				
CIVIL BUILDINGS—concluded.				
MEDICAL.				
<i>Hospitals and Dispensaries.</i>				
Providing accommodation for native paying patients suffering from contagious diseases, Mayo Hospital, Lahore	1	4,023	3,522	569
Additions to the dispensary at Kasauli	2	3,121	...	3,256
Minor works ... ..		...	...	5,184
Total ... ..		...	3,522	9,009
<i>Medical Colleges and Schools.</i>				
Minor works ... ..		...	...	91
Total ... ..		...	...	91
<i>Lunatic Asylums.</i>				
Minor works ... ..		...	...	148
Total ... ..		...	...	148
Total Medical ... ..		...	3,522	9,248
<i>Miscellaneous.</i>				
Public Works Rest-House at Lyalpur	1	4,978	...	5,343
Colonization Officer's quarters at Lyalpur	2	14,518	...	8,841
Special repairs to Deputy Commissioner's residence at Muzaffargarh	3	9,761	9,295	813
Subsidiary bund round Muzaffargarh	4	16,360	17,737	2,566
Residence for the District Superintendent of Police at Muzaffargarh	5	...	...	2,393
Third class Civil Rest-House at Garah Uttam Singh	6	5,519	5,511	8
Fortified third class Rest-House at Mustan	7	7,774	...	8,372
Residence for the Commissioner and Superintendent, Delhi Division at Delhi	8	26,446	...	9,000
Minor works ... ..		...	...	5,677
Total Miscellaneous ... ..		...	32,543	43,013
TOTAL CIVIL BUILDINGS ... ..		...	6,00,850	1,98,051

DIX B.

major and minor works during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
4,091	December 1894...	Completed ...	1	
3,256	January 1896 ...	Do. ...	2	
5,184				
12,531				
91				
91				
148				
148				
12,770				
5,343	December 1895...	In progress ...	1	
8,841	February 1896 ...	Do. ...	2	
10,108	January 1895 ...	Completed ...	3	
20,303	April 1894 ...	Do. ...	4	
2,393	March 1896 ...	In progress ...	5	
5,519	October 1893 ...	Completed ...	6	
8,372	June 1895 ...	Do. ...	7	
9,000	March 1895 ...	In progress ...	8	
5,677				
75,556				
7,98,901				

Statement of expenditure on Provincial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
45.—PROVINCIAL WORKS—continued.				
COMMUNICATIONS.				
<i>Metalled roads.</i>				
Metalling the Lahore-Sheikhupura road, section Mandiali to Sheikhupura	1	35,944	36,282	1,364
Metalling the left approach road to the railway bridge over Ravi at Shadera	2	2,889	...	865
Providing temporary protective wings to road bridge over the Chenab west bank at Shershah	3	2,750	...	1,375
Hazara Trunk road-metalling section Hassan Abdal to Haripur	(a)	49,745	47,149	872
Ditto Haripur to Abbottabad	(b)	45,872	40,043	405
Approaches to the new railway bridge over the Harro river	4	7,762	4,072	3,708
Wah bridge at mile 196, Lahore and Peshawar road	5	11,410	6,676	4,836
Reconstructing Chablat bridge, mile 201, Lahore and Peshawar road	6	...	...	39,330
New girder bridge across the river Jhelum at Kohalla	7	1,18,755	99,533	16,624
Deduct chargeable to contribution ... ..		...	40,133	16,624
Net chargeable to Provincial ... ..		...	59,400	...
Feeder road from Sonipat to Kotana	8	7,433	5,606	1,150
Feeder road from Kharkhauda to Narela station, Delhi-Amballa-Kalka Railway	9	18,365	13,813	56
Feeder road from Kharkhauda to Bhagput Railway	10	7,536	5,399	771
Approach road to Narela Railway station, Delhi-Amballa Kalka Railway	11	18,696	19,284	-704
Kalka-Simla Cart road—	12			
Nokar coolies' huts on—	(a)	3,193	1,539	1,954
Providing cart sidings on—... ..	(b)	3,416	2,206	1,441
Amballa-Kalka road—	13			
Increasing waterway, Bussi nulla bridge, mile 22	(a)	8,242	2,503	5,733
Constructing a causeway over the north channel of Ghaggar river	(b)	3,118	504	2,468
Minor works ... ..		...	...	13,798
Total metalled roads ... ..		...	2,44,476	79,417
<i>Unmetalled roads.</i>				
Constructing feeder road, No. II, from Lyallpur to Rookhanana in the Chenab Canal Colony	1	7,541	...	7,545
Constructing feeder road, No. V, from Pindi Bhatian to Sheikhupura	2	30,192	...	16,589
Feeder road, No. I, from Chiniot Railway station to Phandian	3	10,162	...	8,597
New approaches to the Railway bridge at Shadera	4	8,552	3,777	1,463
Improvements to, and diversion of, drainage in mile 3, Abbottabad-Murree road	5	3,378	3,119	419
Nahakki-Charsadda road	6	24,022	...	19,358
Improving the gradients on the approaches to the Sasna nalla, on Hazara Trunk road	7	7,376	...	4,918
Kangra Valley Cart road.	8			
Metalling and improving the—	(a)	24,255	4,514	20,213
Bridging the Guj torrent at mile 46	(b)	40,357	38,363	2,771
Protective works at the Lyall viaduct over Chakki river in mile 8	(c)	4,831	...	4,505
Minor works ... ..		...	...	18,889
Total unmetalled roads ... ..		...	49,775	1,04,767

DIX B.

major and minor works during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
37,646	February 1892 ...	Completed ...	1	
865	March 1896 ...	In progress ...	2	
1,375	Do. ...	Completed ...	3	
48,021	October 1892 ...	Do. ...	(a)	
40,448	June 1893 ...	Do. ...	(b)	
7,775	February 1895 ...	Do. ...	4	
11,512	Do. ...	Do. ...	5	
39,330	December 1895...	In progress ...	6	
1,16,157	September 1893	Completed ...	7	
56,757				
59,400				
6,756	July 1894 ...	Completed ...	8	
13,869	June 1894 ...	Do. ...	9	
6,170	March 1894 ...	Do. ...	10	
18,580	January 1893 ...	Do. ...	11	
3,493	February 1895 ...	Do. ...	(a)	
3,647	March 1895 ...	Do. ...	(b)	
8,236	Do. ...	Do. ...	(a)	
2,972	Do. ...	Do. ...	(b)	
13,798				
3,23,893				
7,545	December 1895...	Completed ...	1	
16,589	February 1896 ...	In progress ...	2	
8,597	October 1895 ...	Do. ...	3	
5,240	October 1894 ...	Do. ...	4	
3,538	May 1893 ...	Completed ...	5	
19,358	October 1895 ...	In progress ...	6	
4,918	January 1896 ...	Do. ...	7	
24,727	August 1894 ...	Completed ...	(a)	
41,136	January 1894 ...	Do. ...	(b)	
4,505	May 1895 ...	Do. ...	(c)	
18,389				
1,54,542				

Statement of expenditure on Provincial

Name of work.	Item number.	Amount of sanctioned estimate.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
45.—PROVINCIAL WORKS—concluded.				
COMMUNICATIONS—concluded.				
<i>Accommodation for travellers.</i>				
Levy post for the Border Militia Guard at Zarmelan, in the Gomal Pass	1	3,889	912	3,112
Re-roofing the dak bungalow at Tret on Rawalpindi-Murree road, and erecting new out-houses, stables and cook-houses	2	6,356	...	2,055
Restoring Dharmore dâk bungalow	3	7,494	...	2,477
Minor works ... ..		...	...	10,177
Total Accommodation for travellers ...		...	912	17,821
<i>Boat-bridges and Ferries.</i>				
Minor works ... ..		...	...	527
Total ...		...	...	527
TOTAL COMMUNICATIONS ...		...	2,95,163	2,02,532
MISCELLANEOUS PUBLIC IMPROVEMENTS.				
Drainage scheme, Lahore city	1	47,863	1,311	14,474
Ditto, Anarkali		25,676	12,978	-3,446
Constructing a retired earthen bund to connect cantonment and city bund at Dera Ghazi Khan	2	4,809	...	4,614
Extending river protective bund at Dera Ghazi Khan	3	...	...	3,35,004
<i>Deduct chargeable to Local Loans</i> ... ..		...	..	38,004
<i>Net chargeable to Provincial</i> ... ..		...	...	2,97,000
Maintenance river protective works at Dera Ismail Khan ...	4	19,064	9,950	-9,950
Water-supply at Thall outpost	5	3,865	2,619	1,198
Simla water-supply extension	6	3,81,856	3,29,171	1,747
<i>Deduct chargeable to Imperial</i> ... ..		...	76,747	...
<i>Ditto Contribution</i> ... ..		...	2,34,665	...
<i>Net debit to Provincial</i> ... ..		...	17,759	1,747
Water-supply, Amballa city	7	3,58,595	2,28,681	89,804
<i>Deduct chargeable to Contribution</i> ... ..		...	1,51,761	41,061
<i>Ditto to District (Incorporated Local) Fund</i> ... ..		...	...	25,000
<i>Ditto to Local Loans</i> ... ..		...	...	18,000
<i>Net debit to Provincial</i> ... ..		...	51,920	26,651
Beas river protective works at the Dhusi bund		18,266	8,340	7,422
<i>Deduct chargeable to Contribution</i> ... ..		...	5,240	5,754
<i>Net debit to Provincial</i> ... ..		...	3,100	1,668
Minor works	8	...	...	3,550
TOTAL MISCELLANEOUS PUBLIC IMPROVEMENTS ...		...	99,637	3,37,506
TOTAL PROVINCIAL CIVIL WORKS ...		...	9,95,650	7,38,089

DIX B.

major and minor works during 1895-96—concluded.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
4,024	March 1895 ...	Completed ...	1	
2,055	March 1896 ...	In progress ...	2	
2,477	Do. ...	Do. ...	3	
10,177				
18,733				
527				
527				
4,97,695				
15,785 9,532	} December 1894	In progress ...	1	Excludes Rs. 5,038 under deposit in 1894-95.
4,614	July 1895 ...	Completed ...	2	
3,35,004 38,004				
2,97,000	March 1895 ...	In progress ...	3	
3,817	June 1894 ...	Completed ...	4	
3,30,918 76,747 2,34,665			5	
19,506 3,18,485 1,92,822	June 1892 ...	Do. ...	6	
29,092 18,000				
78,571 15,762 10,994	December 1893...	In progress ...	7	
4,768 3,550	February 1895 ...	Completed ...	8	
4,37,143				
17,33,739				

Statement of expenditure on Contributions

Name of work.	Item number.	Estimated cost.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
CONTRIBUTION WORKS.				
CIVIL BUILDINGS.				
Completing chapel attached to the Lawrence Memorial Asylum, Murree	1	12,174	10,572	54
Additions and alterations to Lady Aitchison's hospital, Lahore	2	5,054	3,000	2,000
Fittings to Jubilee Museum, Lahore	3	9,782	1	1,378
Minor works ... ..		...	...	1,419
Total ...		...	13,573	4,851
COMMUNICATIONS.				
Reconstructing a new girder bridge across the river Jhelum at Kohalla	1	1,18,755	40,133	16,624
Minor works ... ..		...	...	860
Total ...		...	40,133	17,484
MISCELLANEOUS PUBLIC IMPROVEMENTS.				
Intramural drainage, Gujranwalla city	1	31,743	30,419	457
Water-supply, Amballa city	2	3,58,595	1,51,761	41,062
Beas river protective works at the Dhusi bund	3	18,266	5,240	5,754
Delhi sewage works	4	4,49,368	77,511	2,489
Minor works ... ..		...	...	4,328
Total ...		...	2,64,931	54,090
GRAND TOTAL ...		...	3,18,637	76,425

DIX C.

major and minor works during 1895-96.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
10,626	November 1892	Completed ...	1	Excludes Rs. 1,892 debited to Civil Department in 1892-93.
5,000	June 1895 ...	Do. ...	2	
1,379	September 1895	In progress ...	3	
1,419				
18,424				
56,757	September 1892	In progress ...	1	Exclusive of outlay debited to Provincial.
860				
57,617				
30,866	October 1892 ...	In progress ...	1	
1,92,823	December 1892...	Do. ...	2	Exclusive of outlay debited to Provincial and District (I. L.) Fund and Local Loans.
10,994	February 1895 ...	Completed ...	3	Includes Rs. 482-2-10 and Rs. 31-7-3 on account of percentages for Establishment and Tools and Plant.
80,000	May 1891 ...	In progress ...	4	Exclusive of outlay debited to Local Loans.
4,328				
3,19,021				
3,95,062				

Statement of expenditure on major and minor works carried out

Name of work.	Item number.	Estimated cost.	Expenditure to end of March 1895.	Expenditure during 1895-96.
DISTRICT (I. L.) WORKS.				
CIVIL BUILDINGS.				
<i>Land Revenue buildings.</i>				
Minor works ... ..	...	...	...	4,102
Total ...	...	...	...	4,102
<i>Law and Justice.</i>				
Minor works ... ..	...	...	...	47
Total ...	...	...	...	47
<i>Police.</i>				
Minor works ... ..	...	...	...	20
Total ...	...	...	...	20
<i>Educational buildings.</i>				
Boarding house at Sonapat, Delhi District ...	1	2,716	875	101
New school house at Jagadri, Amballa District ...	2	5,208	2,505	342
New boarding house at Karnal	3	6,193	...	2,792
New school house at Kalanaur, Rohtak District ...	4	4,935	...	4,787
Ditto Gujar Khan, Rawalpindi District ...	5	13,653	200	13,653
Ditto Shujabad, Multan District ...	6	7,044	2,450	1,860
Ditto Depalpur, Montgomery District ...	7	5,963	6,157	406
Constructing a Jubilee high school at Rohtak ...	8	21,804	...	4,974
Minor works ... ..	...	...	...	22,743
Total ...	...	...	12,187	51,658
<i>Medical buildings.</i>				
Addition to Pindigheb dispensary, Rawalpindi District ...	1	5,034	5,034	702
Minor works ... ..	...	...	...	6,847
Total ...	...	...	5,034	7,549
<i>Miscellaneous.</i>				
New Rest-House at Sudan, Multan District ...	1	3,688	840	2,485
New District bungalow at Jandrak, Montgomery District ...	2	3,493	...	2,175
Minor works ... ..	...	...	...	10,411
Total ...	...	...	840	15,071
TOTAL CIVIL BUILDINGS ...	...	...	18,061	78,447

DIX D.

from Incorporated Local District Funds during 1895-96.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
4,102				
4,102				
47				
47				
20				
20				
976	August 1894 ...	In progress ...	1	
2,847	January 1895 ...	Completed ...	2	Exclusive of outlay from Municipal Funds.
2,792	August 1895 ...	In progress ...	3	Ditto ditto.
4,787	November 1895...	Do. ...	4	
13,853	July 1894 ...	Do. ...	5	
4,310	March 1895 ...	Completed ...	6	Ditto ditto.
6,563	August 1893 ...	Do. ...	7	
4,974	February 1896 ...	In progress ...	8	
22,743				
63,845				
5,736	March 1893 ...	Completed ...	1	
6,847				
12,583				
3,325	March 1894 ...	In progress ...	1	
2,175	December 1895...	Do. ...	2	
10,411				
15,911				
96,508				

Statement of expenditure on major and minor works carried out

Name of work.	Item number,	Estimated cost.	Expenditure to end of March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
DISTRICT (I. L.) WORKS—contd.				
COMMUNICATIONS.				
METALLED ROADS.				
<i>Bridged and drained throughout.</i>				
Metalling remaining portion of the Delhi-Najafgarh road, Delhi District	1	25,446	24,533	888
Construction of gap on Tanda road, Jullundur District ...	2	3,440	400	2,874
Adding a span to a bridge over Aik nalla, Sialkot District	3	4,819	...	3,349
Metalling Saidpur road, Rawalpindi District...	4	4,034	...	3,834
Minor works ... ..		...	...	9,262
Total ...		...	24,933	20,157
<i>Partially bridged and drained.</i>				
Metalling 9 miles Gujranwala-Hafizabad road, Gujranwala District	1	22,808	12,937	8,175
Minor works ... ..		...	...	166
Total ...		...	12,937	8,341
Total metalled roads ...		...	37,870	28,498
UNMETALLED ROADS.				
<i>Bridged and drained throughout.</i>				
Metalling 2 miles of the Sialkot-Amritsar road, Sialkot District	1	39,712	5,915	7,636
Providing bridges and making improvements to Hawaid road, Bannu District	2	5,761	...	2,221
Strengthening the Binwan bridge on Palampur and Baijnath road	3	3,603	1,842	247
Minor works ... ..		...	...	12,141
Total ...		...	7,757	22,245

DIX D.

from Incorporated Local District Funds during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
25,371	March 1891 ...	In progress ...	1	
3,274	March 1895 ...	Completed ...	2	
3,349	April 1895 ...	Do. ...	3	Exclusive of Rs. 1,600 paid by the Municipal Committee.
3,834	February 1896 ...	In progress ...	4	
9,262				
45,090				
21,112	May 1894 ...	In progress ...	1	
166				
21,278				
66,368				
13,551	January 1895 ...	In progress ...	1	
2,221	May 1895 ...	Do. ...	2	
2,089	September 1894	Do. ...	3	
12,141				
90,002				

Statement of expenditure on major and minor works carried out

Name of work.	Item number.	Estimated cost.	Expenditure to end of March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
DISTRICT (I. L.) WORKS—contd.				
COMMUNICATIONS—concluded.				
UNMETALLED ROADS.				
<i>Partially bridged and drained.</i>				
Improving and bridging Karnal-Pehowa road, Karnal District	1	5,037	350	2,953
Metalling 2½ miles of Rohtak-Kharkhanda road, Rohtak District	2	2,500	1,416	1,083
Improving Gohana-Panipat road, Rohtak District	3	2,800	...	1,067
Temporary bridge on Tanda-Rura road, Hoshiarpur District	4	2,532	1,234	1,294
New bridge at Jessur over Budli nalla, Sialkot District	5	2,997	2,413	1,011
Pucca flooring of Shikar bridge, Gurdaspur District	6	4,910	2,660	1,951
Constructing the Karnal Khud bridge, Gurdaspur District	7	3,223	1,316	1,965
Constructing a regular and irregular channel, Shikar bridge, Gurdaspur District	8	3,744	...	3,764
Constructing Batala and Aliwal road, Gurdaspur District	9	2,668	...	439
Minor works	...	...	...	27,924
Total	...	...	9,389	43,451
<i>Roads cleared, partially bridged and drained.</i>				
Two new bridges over Khanwah and Upper Sohag Canal, Montgomery District	1	6,706	4,000	2,613
New bridge over Deg nalla, Montgomery District	2	6,722	...	6,000
Minor works	...	...	...	5,837
Total	...	...	4,000	14,450
<i>Roads—Cleared only.</i>				
Constructing Kirani aqueduct, Dera Ismail Khan District	1	8,215	2,000	-974
Minor works	...	...	...	5,035
Total	...	...	2,000	4,061
Total unmetalled roads	...	...	15,389	61,962
<i>Accommodation for travellers.</i>				
New serai and well at Shahkot, Gujranwala District	1	3,729	2,743	986
New serai at Beas, Amritsar District	2	5,000	...	1,352
Well at Drigri, Dera Ghazi Khan District	3	2,551	1,600	468
Minor works	...	...	...	6,741
Total	...	...	4,343	9,547
<i>Boat-bridges and ferries.</i>				
Minor works	...	...	...	50
Total	...	...	...	50
TOTAL COMMUNICATIONS	...	...	65,359	1,22,282

DIX D.

from Incorporated Local District Funds during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
3,303	March 1895 ...	In progress ...	1	
2,499	October 1894 ...	Completed ...	2	
1,067	January 1896 ...	In progress ...	3	
2,528	January 1895 ...	Completed ...	4	
3,424	October 1894 ...	Do. ...	5	
4,611	December 1894...	In progress ...	6	
3,281	March 1894 ...	Completed ...	7	
3,764	July 1895 ...	Do. ...	8	
439	August 1895 ...	In progress ...	9	
27,924				
52,840				
6,613	January 1895 ...	Completed ...	1	Executed by the Executive Engineer, Upper Sutlej Inundation Canals Division.
6,000	March 1896 ...	In progress ...	2	
5,837				
18,450				
1,026	August 1893 ...	In progress ...	1	Exclusive of outlay from Municipal Funds.
5,035				
6,061				
77,351				
3,729	March 1895 ...	Completed ...	1	
1,352	March 1896 ...	In progress ...	2	
2,068	March 1891 ...	Do. ...	3	
6,741				
13,890				
30				
30				
1,87,641				

Statement of expenditure on major and minor works carried out

Name of work.	Item number.	Estimated cost.	Expenditure to end of March 1895.	Expenditure during 1895-96.
DISTRICT (I.L.) WORKS—concluded.				
MISCELLANEOUS PUBLIC IMPROVEMENTS.				
<i>Water-supply.</i>				
Sarusti canal, Karnal District	1	80,951	20,867	15,256
Surveying and lining out of Ghaggar canal, Hissar District	2	8,288	7,413	545
Final survey and alignment of Ghaggar canal, Hissar District	3	3,828	...	1,616
Brick manufacture for Ghaggar canal, Hissar District	4	5,950	...	5,949
Excavation of Mubarikwab canal, Ferozepur District	5	5,170	4,184	—4,184
Michni Dulazak canal, Peshawar District	6	20,645	...	25,000
Water-supply, Amballa city	7	3,58,595	25,000	4,092
Minor works ... ..	...	...	...	13,178
Total ... ..	...	...	57,461	61,452
<i>Sewage and drainage.</i>				
Clearing and improving main drain No. VI, Delhi	1	13,380	5,270	8,948
Minor works ... ..	...	...	...	4,897
Total ... ..	...	...	5,270	13,845
<i>Town buildings.</i>				
District Board office at Delhi	1	7,845	51	—15
Ditto Gujrat	2	9,046	...	546
Minor works ... ..	...	...	...	1,806
Total ... ..	...	...	51	2,337
<i>Pavings and Streets.</i>				
Minor works ... ..	...	...	...	475
Total ... ..	...	...	...	475
<i>Conservancy.</i>				
Minor works ... ..	...	...	...	12
Total ... ..	...	...	...	12
<i>Miscellaneous.</i>				
Bund at Beyn, Gurdaspur District	1	4,439	1,000	2,433
Minor works ... ..	...	...	...	6,642
Total ... ..	...	...	1,000	9,075
TOTAL MISCELLANEOUS PUBLIC IMPROVEMENTS ... ..	...	...	63,785	87,196
GRAND TOTAL ... ..	...	...	1,47,205	2,87,925

DIX D.

from Incorporated Local District Funds during 1895-96—concluded.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
36,123	October 1891 ...	In progress ...	1	
7,958	March 1895 ...	Completed ...	2	Work is being done by the Executive Engineer, Hissar Division, Western Jumna Canal.
1,616	...	In progress ...	3	Ditto Ditto.
5,949	November 1895...	Do. ...	4	Ditto Ditto.
...	July 1883 ...	Completed ...	5	
25,000	December 1895...	Do. ...	6	
29,092	December 1893...	In progress ...	7	Contribution by District Board. Work under Executive Engineer, Amballa Provincial Division.
13,178				
1,18,916				
14,218	May 1894 ...	Completed ...	1	Work is being executed by Executive Engineer, Delhi Division, Western Jumna Canal.
4,897				
19,115				
36	August 1894 ...	In progress ...	1	
546	March 1896 ...	Do. ...	2	
1,806				
2,388				
475				
475				
12				
12				
3,433	March 1895 ...	In progress ...	1	
6,642				
10,075				
1,50,981				
4,35,180				

Statement of expenditure on major and minor works carried out

Name of work.	Item number.	Estimated cost.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
MUNICIPAL FUNDS.				
CIVIL BUILDINGS.				
POLICE.				
New Police thana, Rewari, Gurgaon District ...	1	8,411	7,566	845
Re-roofing Police lines at Simla ...	2	3,135	...	1,970
Minor works ...	...	...	...	3,792
Total ...	...	...	7,566	6,607
LAW AND JUSTICE.				
Minor works ...	...	...	...	123
Total ...	...	...	...	123
EDUCATIONAL.				
Grant-in-aid for Jubilee High School, Rohtak District ...	1	21,804	...	2,675
New school house, Kaithal, Karnal District ...	2	9,855	500	3,994
Contribution for a new boarding house at Karnal, Karnal District ...	3	6,193	...	2,686
New school house at Jagadhri, Amballa District ...	4	5,208	2,391	—31
Municipal Board school building at Simla ...	5	54,448	7,994	58,200
New primary school building at Kasur, Lahore District ...	6	4,639	...	1,324
New school house at Shujabad, Multan District ...	7	7,044	2,175	694
New primary school building at Fort Sialkot ...	8	3,461	1,305	1,891
Minor works ...	...	...	...	6,936
Total ...	...	...	14,365	58,339
MEDICAL.				
City branch dispensary at Multan ...	1	2,620	2,135	356
Minor works ...	...	...	...	11,226
Total ...	...	...	2,135	11,582
MISCELLANEOUS.				
Minor works ...	...	...	...	1,319
Total ...	...	...	...	1,319
TOTAL CIVIL BUILDINGS ...	...	...	24,066	78,020

DIX E.

from Municipal Funds during 1895-96.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
8,411	October 1894 ...	Completed ...	1	
1,970	August 1895 ...	In progress ...	2	
3,792				
14,173				
123				
123				
2,675	January 1896 ...	In progress ...	1	Work being done by Public Works Department.
4,494	January 1895 ...	Do. ...	2	
2,686	February 1896 ...	Do. ...	3	Exclusive of outlay from District (Incorporated Local) funds.
2,360	June 1892 ...	Completed ...	4	Do. of Rs. 2,847, do. do.
46,194	January 1894 ...	In progress ...	5	
1,324	March 1896 ...	Do. ...	6	
2,869	March 1895 ...	Completed ...	7	Exclusive of outlay from District (Incorporated Local) funds.
3,196	February 1895 ...	Do. ...	8	
6,956				
72,754				
2,491	May 1894 ...	In progress ...	1	
11,226				
13,717				
1,319				
1,319				
1,02,086				

Statement of expenditure on major and minor works carried out

Name of work.	Item number.	Estimated cost.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
MUNICIPAL FUNDS—continued.				
COMMUNICATIONS.				
ACCOMMODATION FOR TRAVELLERS.				
Minor works	...	...	...	15
	Total	...	...	15
	TOTAL COMMUNICATIONS	...	...	15
MISCELLANEOUS PUBLIC IMPROVEMENTS.				
TOWN BUILDINGS.				
Purchase of a building for the Hansi Municipal office, Hissar District	1	3,000	...	3,000
Erection of municipal stables between Hathi and Loghar gates, Amritsar	2	4,915	4,335	580
Minor works	...	...	...	13,144
	Total	...	4,335	16,724
MARKETS.				
Constructing beef market, Simla	1	10,192	...	4,035
Purchase of Museum building, and its conversion into a Municipal Market, Lahore	2	15,000	...	14,945
Two slaughter-houses at Peshawar	3	6,055	...	2,908
Minor works	...	...	...	9,795
	Total	...	...	31,683
PAVING AND STREETS.				
Laying a pavement in Jeoli Bazar, Rewari, Gurgaon District	1	3,333	...	3,330
Retaining wall below Grand Hotel, Simla	2	2,896	...	1,500
Paving roads and streets, Kalabagh, Bannu District	3	2,960	1,500	1,184
Contribution towards the improvements to Kirani bridge, Dera, Dera Ismail Khan District	4	8,215	...	1,026
Minor works	...	...	...	73,186
	Total	...	1,500	80,226
WATER-SUPPLY.				
Water works, Amballa	1	3,52,366	...	7,071
Constructing reservoir at Sirhan village, Simla	2	2,933	...	568
Adding an arch to bridge over Aik nalla, Sialkot	3	4,819	...	1,600
Distribution of water in Rawalpindi city	4	99,264	83,687	15,851
Pucca water cut, Edwardesabad, Bannu District	5	6,043	...	120
Minor works	...	...	...	12,560
	Total	...	83,687	37,770

DIX E.

from Municipal Funds during 1895-96—continued.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
15				
15				
15				
3,000	August 1895 ...	Completed ...	1	
4,915	December 1894...	Do. ...	2	
13,144				
21,059				
4,035	March 1896 ...	In progress ...	1	
14,945	April 1895 ...	Completed ...	2	
2,908	January 1896 ...	In progress ...	3	
9,795				
31,683				
3,330	July 1895 ...	Completed ...	1	
1,500	March 1896 ...	In progress ...	2	
2,684	March 1895 ...	Do. ...	3	
1,026	May 1895 ...	Do. ...	4	Exclusive of outlay from District funds.
73,186				
81,726				
7,071	August 1895 ...	In progress ...	1	Work being done by Public Works Department.
568	Ditto ...	Do. ...	2	
1,600	Ditto ...	Completed ...	3	Contribution paid to District Board.
99,538	May 1891 ...	Do. ...	4	
120	March 1896 ...	In progress ...	5	
12,560				
1,21,457				

Statement of expenditure on major and minor works carried out

Name of work.	Item number.	Estimated cost.	Expenditure prior to 31st March 1895.	Expenditure during 1895-96.
		Rs.	Rs.	Rs.
MUNICIPAL FUNDS—concluded.				
MISCELLANEOUS PUBLIC IMPROVEMENTS—concluded.				
SEWAGE AND DRAINAGE.				
City drainage, Lahore	1	47,863	9,000	10,000
Main outfall sewer, Jhelum	2	3,874	...	1,170
Drain, Kanjranwala gate, Dera Ismail Khan	3	3,930	...	3,883
Toyanwala drain, Dera Ismail Khan	4	5,002	...	4,961
Drainage scheme, Dera Ghazi Khan	5	20,000	350	243
Minor works ... ..		...	...	46,571
Total ... ..		...	9,350	66,828
LIGHTING.				
Minor works ... ..		...	...	876
Total ... ..		...	...	876
CONSERVANCY.				
Harbury's latrine, Simla	1	3,420	...	2,389
Conservancy bullock shed outside city Amritsar	2	2,997	...	3,060
New latrines at Hazro, Rawalpindi District	3	2,551	...	2,551
Minor works ... ..		...	...	11,595
Total ... ..		...	...	19,595
MISCELLANEOUS.				
Protective works against the encroachments of the river Jhelum on Kuliwal, a suburb of Pind Dadan Khan, Jhelum District	1	4,016	...	3,738
Protective works, Pind Dadan Khan, Jhelum District	2	3,000	...	3,000
Minor works ... ..		...	...	7,216
Total ... ..		...	...	13,954
TOTAL MISCELLANEOUS PUBLIC IMPROVEMENTS ... ..		...	98,872	2,67,656
GRAND TOTAL ... ..		...	1,22,938	3,45,691

DIX E.

from *Municipal Funds during 1895-96*—concluded.

Total outlay to 31st March 1896.	Date of commencement of work.	Work completed or in progress.	Item number.	REMARKS.
Rs.				
19,000	March 1895 ...	In progress ...	1	Work being done by Executive Engineer, Lahore Provincial Division.
1,170	March 1896 ...	Do. ...	2	
3,883	June 1895 ...	Completed ...	3	
4,961	October 1895 ...	Do. ...	4	
593	March 1894 ...	In progress ...	5	
46,571				Work being carried out by Provincial Public Works Department.
76,178				
876				
876				
2,389	July 1895 ...	In progress ...	1	
3,060	April 1895 ...	Completed ...	2	
2,551	March 1896 ...	Do. ...	3	
11,595				
19,595				
3,738	May 1895 ...	Completed ...	1	
3,000	January 1896 ...	Do. ...	2	
7,216				
13,954				
3,66,528				
4,68,629				

APPENDIX F.

Mileage of metalled and unmetalled Imperial, Provincial, and District roads in the Punjab during 1895-96.

Imperial, Provincial, or District Roads.	Public Works Division or District.	Metal renewed during 1895-96.	TOTAL LENGTH TO CLOSE OF 1895-96.	
			Metalled.	Un- metalled.
		Miles.	Miles.	Miles.
Imperial	<i>Peshawar Division—</i>			
	Under Executive Engineer	...	28	86½
	<i>Rawalpindi Division—</i>			
	Under Executive Engineer	...	½	1
	<i>Gujranwala Independent Executive Charge</i>	...	...	...
	<i>Kohat Division—</i>			
	Under Executive Engineer	...	9	92½
	<i>Dera Ghazi Khan Division—</i>			
	Under Executive Engineer	...	1	18
	Do. Civil Officers	...	...	33
	Do. Military Works Department	...	51	5
	<i>Dera Ismail Khan Division—</i>			
	Under Executive Engineer	...	1	178½
	Do. Civil Officers	...	...	118
	<i>Lahore Division</i>	...	...	...
<i>Multan Independent Executive Charge</i>	...	...	...
<i>Jullundur Division</i>	...	...	...
<i>Simla do.</i>	...	...	...
<i>Amballa do.</i>	...	...	...
<i>Delhi do.</i>	...	...	...
	Under charge of Military Works Department	...	7	...
	TOTAL IMPERIAL ROADS	62½	334	517
Provincial	<i>Peshawar Division—</i>			
	Under Executive Engineer	...	112	399½
	Do. Civil Officers	...	1	18½
	Do. Military Works Department	...	5	...
	<i>Kohat Division—</i>			
	Under Executive Engineer	...	...	100
	Do. Civil Officers	...	1	3½
	<i>Rawalpindi Division—</i>			
	Under Executive Engineer	...	15½	247½
	Do. Civil Officers	...	...	21
	Do. Military Works Department	...	...	4
	<i>Gujranwala Independent Executive Charge—</i>			
	Under Executive Engineer	...	4½	88½
	Do. Civil Officers	...	1	5½
	Do. Military Works Department	...	...	3
	Carried over	21	488½	776

APPENDIX F.

Mileage of metalled and unmetalled Imperial, Provincial, and District roads in the Punjab during 1895-96—continued.

Imperial, Provincial, or District Roads.	Public Works Division or District.	Metal renewed during 1895-96.	TOTAL LENGTH TO CLOSE OF 1895-96.	
			Metalled.	Un- metalled.
		Miles.	Miles.	Miles.
	<i>Brought forward</i> ...	21	488½	776
Provincial ...	<i>Delhi Division—</i>			
	Under Executive Engineer ...	15	126	...
	Do. Civil Officers ...	...	18	77
	<i>Jullundur Division—</i>			
	Under Executive Engineer ...	14	89	345
	Do. Civil Officers ...	...	19	212
	Do. Military Works Department ...	...	1	1
	<i>Simla Division—</i>			
	Under Executive Engineer ...	13½	58	166
	Do. Military Works Department ...	...	...	3
	<i>Amballa Division—</i>			
	Under Executive Engineer ...	...	169½	187½
	Do. Civil Officers ...	...	8	...
	Do. Military Works Department ...	...	4	...
	<i>Lahore Division—</i>			
	Under Executive Engineer ...	13	165½	68½
	Do. Military Works Department ...	...	1½	...
	Do. Civil Officers ...	...	5½	2
	<i>Multan Independent Executive Charge—</i>			
	Under Executive Engineer ...	...	26¾	86½
	Do. Military Works Department ...	...	1¼	...
	<i>Dera Ghazi Khan Division—</i>			
	Under Executive Engineer ...	...	14¾	173¼
	Do. Civil Officers ...	...	7½	...
	<i>Dera Ismail Khan Division—</i>			
	Under Executive Engineer ...	...	3¼	146
	Do. Civil Officers ...	...	1½	323¼
	<i>Ferozepur Independent Executive Charge—</i>			
	Under Executive Engineer ...	16	118	...
	Do. Military Works Department ...	...	3½	...
	<i>Lyallpur Independent Executive Charge—</i>			
	Under Executive Engineer ...	...	...	67½
	TOTAL PROVINCIAL ROADS ...	93¾	1330½	2622½

APPENDIX F.

Mileage of metalled and unmetalled Imperial, Provincial, and District roads in the Punjab during 1895-96—continued.

Imperial, Provincial, or District Roads.	Public Works Division or District.	Metal renewed during 1895-96.	TOTAL LENGTH TO CLOSE OF 1895-96.	
			Metalled.	Un- metalled.
		Miles.	Miles.	Miles.
District	... <i>Peshawar</i> — Under Civil Officers	...	16½	509
	<i>Kohat</i> — Under Civil Officers	...	...	306
	<i>Hazara</i> — Under Civil Officers	...	...	395
	<i>Muzaffargarh</i> — Under Civil Officers	...	1¾	16¼
	<i>Bannu</i> — Under Civil Officers	...	½	574
	<i>Dera Ismail Khan</i> — Under Civil Officers	...	...	823
	<i>Dera Ghazi Khan</i> — Under Civil Officers	...	7½	500
	<i>Shahpur</i> — Under Civil Officers	...	7	812½
	<i>Sialkote</i> — Under Civil Officers	...	26¾	758
	<i>Gujranwala</i> — Under Civil Officers	...	2	13
	Do. Executive Engineer	...	...	¼
	<i>Rawalpindi</i> — Under Civil Officers	...	37¾	1,074¼
	<i>Gujrat</i> — Under Civil Officers	...	1	9
	<i>Jhelum</i> — Under Civil Officers	...	28	1,080
	<i>Multan</i> — Under Civil Officers	...	4	1,177
	<i>Gurdaspur</i> — Under Civil Officers	...	68	531¼
	<i>Amritsar</i> — Under Civil Officers	...	13	16
	<i>Lahore</i> — Under Civil Officers	...	2	11¾
	<i>Montgomery</i> — Under Civil Officers	...	1½	1,060½
	<i>Carried over</i>	...	23¾	272¼
				13,028¼

APPENDIX F.

Mileage of metalled and unmetalled Imperial, Provincial, and District roads in the Punjab during 1895-96—concluded.

Imperial, Provincial, or District Roads.	Public Works Division or	District.	Metal renewed during 1895-96.	TOTAL LENGTH TO CLOSE OF 1895-96.	
				Metalled.	Un- metalled.
			Miles.	Miles.	Miles.
	<i>Brought forward</i>	...	23 $\frac{3}{4}$	272 $\frac{1}{4}$	13,028 $\frac{3}{4}$
District	<i>Jhang</i> —				
	Under Civil Officers	...	...	15 $\frac{1}{2}$	1,053 $\frac{1}{2}$
	<i>Hoshiarpur</i> —				
	Under Civil Officers	...	...	16	713
	<i>Kangra</i> —				
	Under Civil Officers	...	...	...	710
	<i>Jullundur</i> —				
	Under Civil Officers	...	...	12 $\frac{3}{4}$	82 $\frac{1}{4}$
	<i>Ludhiana</i> —				
	Under Civil Officers	...	...	7 $\frac{1}{2}$	226 $\frac{1}{2}$
	Do. Executive Engineer	...	...	5	60 $\frac{1}{2}$
	<i>Ferozepur</i> —				
	Under Civil Officers	...	...	...	829
	Do. Executive Engineer	...	...	12	...
	<i>Hissar</i> —				
	Under Civil Officers	...	...	...	10 $\frac{1}{2}$
	<i>Rohtak</i> —				
	Under Civil Officers	...	...	7	63
	<i>Gurgaon</i> —				
	Under Civil Officers	...	...	12	75
	<i>Delhi</i> —				
	Under Civil Officers	...	...	1 $\frac{1}{4}$	39
	Do. Executive Engineer	...	...	...	24 $\frac{1}{2}$
	<i>Karnal</i>				
	Under Civil Officers	...	...	...	18
	Do. Executive Engineer	...	...	...	93
	<i>Amballa</i> —				
	Under Civil Officers	...	...	...	12 $\frac{3}{4}$
	Do. Executive Engineer	...	...	...	630 $\frac{3}{4}$
	<i>Simla</i> —				
	Under Civil Officers	...	...	...	30 $\frac{1}{2}$
	<i>Simla</i> —				
	Under Civil Officers	...	...	...	6
	TOTAL DISTRICT ROADS	...	...	61 $\frac{3}{4}$	709 $\frac{3}{4}$
					20,317 $\frac{1}{4}$

APPENDIX G.

Statement showing financial results of boat bridges and major ferries in the Punjab for the year 1895-96.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Serial No.	LOCALITY.	Capital cost at end of 1895-96.	Additional outlay debitable to capital cost during 1895-96.	Total capital cost to 31st March 1896.	EXPENDITURE ON					Total expenditure.	Gross receipts during 1895-96.	Net receipts—difference between columns 11 & 12 = during 1895-96.	4% on capital expenditure calculated on amount in column 3 plus half amount in column 4.	REAL PROFIT OR LOSS, i. e., RESULT OF COLUMNS 13 & 14.		REMARKS.
					Repairs.	Establishment.	Extraordinary (hire of boats, &c.)	Completing equipment.	Toll collection.					Profit.	Loss.	
1st CIRCLE.																
1	Khushab over river Jhelum	20,418	...	20,418	1,613	2,482	429	4,495	1,578	10,597	6,004	-4,593	817	...	5,410	
2	Khushalgarh over river Indus—															
	(a) Boat bridge	86,905	...	86,905	3,450	3,744	713	2,903	...	10,810	4,462	-6,348	3,476	...	9,929	
	(b) Ferry	2,631	...	2,631	...	...	...	...	...	...	...	...	105	...	...
3	Nowshera over river Kabul	1,02,794	...	1,02,794	3,664	2,852	867	1,380	...	8,763	17,725	8,962	4,112	4,850	...	
4	At Daudzai over the following branches of the Kabul river—															
	i. Adozai branch	...	...	...	435	1,580	2,295	5,152	...	9,462	10,593	1,131	...	1,131	...	
	ii. Nagoman "	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	iii. Shahalam "	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	Boat bridge over river Kabul at Khund	...	...	...	437	103	11	...	...	551	...	-551	...	...	551	
6	Dalmohat ferry	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Dobandi (now Charsadda) over river Kabul	...	...	...	624	1,679	2,506	13,990	...	18,799	...	-18,799	...	...	18,799	
8	Ferry over Jhelum at Jhelum	2,532	...	2,532	342	3,116	206	71	...	3,735	4,024	289	101	188	...	

2ND CIRCLE.															
9	Rajghat over river Jamna	...	...	...	120	...	87	...	...	207	848	636	...	636	...
10	Dera Gopipur over river Beas	8,185	...	8,185	1,875	240	...	800	758	3,673	9,400	5,727	327	5,400	...
11	Sanauli over river Jamna	...	...	...	...	...	...	...	125	125	7,898	7,773	...	7,773	...
12	Mirghan over river Jamna	924	...	924	...	...	...	...	120	120	2,139	2,019	37	1,982	...
13	Khagipur Do.	...	...	...	...	...	...	...	120	120	4,633	4,513	...	4,513	...
14	Hamirpur Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	Chansa Do.	...	...	...	...	...	...	...	...	...	6,100	6,100	...	6,100	...
3RD CIRCLE.															
16	Shahdera over river Ravi...	30,640	...	30,640	1,187	2,405	...	1,583	1,707	6,882	26,558	19,676	1,226	18,450	...
17	Dera Ismail Khan over river Indus—														
	Boat bridge	1,04,297	...	1,04,297	9,656	6,517	3,822	8,000	724	28,719	25,835	-7,884	4,172	...	12,056
	Ferry and steamer service	...	...	...	...	...	5,000	...	...	5,000	...	...	...	...	...
18	Dera Ghazi Khan over river Indus—														
	Boat bridge	1,49,005	...	1,49,005	2,596	7,321	1,674	2,673	2,246	16,510	} 18,150	-3,860	} 5,960	} ...	10,007
	Ferry and steamer service	4,680	...	4,680	95	168	5,000	237	...	5,500						187
19	Chichawatni over river Ravi	34,857	...	34,857	1,105	1,227	...	3,499	...	5,831	4,668	-1,163	1,394	...	2,557
	Total	5,47,868	...	5,47,868	27,199	33,434	22,610	44,783	7,378	1,35,404	1,49,032	13,628	21,914	51,023	59,309

Showing particulars connected with boat bridges

(N. B.—All the bridges in the Punjab

Item No.	LOCALITY.	Number of channels for bridge or ferry during 1895-96.	TOTAL LENGTH OF BRIDGE IN FEET DURING 1895-96.		PERIOD BRIDGE IS ESTABLISHED.		PERIOD FERRY IS ESTABLISHED.	
			Maximum.	Minimum.	From	To	From	To
1	Khushab over river Jhelum—							
	(a) Boat bridge ...	1	840	800	12th Oct. 1895	4th April 1896	...	...
	(b) „ Ferry ...	...	...	...	...	...	1st April 1895	11th Oct. 1895
2	Khushalgarh over river Indus—							
	(a) Boat bridge ...	1	806	531	1st April 1895 10th Sept. 1895	7th June 1895 31st March 1896	...	...
	(b) „ Ferry ...	...	...	...	...	...	8th June 1895	9th Sept. 1895
3	Nowshera over river Kabul—							
	Boat bridge ...	1	959	711	Throughout	the year	...	...
4	At Daudzai over the following branches of the Kabul river—							
	1.—Adozai Branch—							
	(a) Boat bridge ...	1	440	200	30th Sept. 1895	31st March 1896	...	...
	(b) „ Ferry ...	...	...	...	...	...	31st May 1895	29th Sept. 1895
	2.—Nagoman Branch—							
	Boat bridge ...	1	357	250	Throughout	the year	...	...
	3.—Shahalam Branch—							
	Boat bridge ...	1	365	225	Throughout	the year	...	...
5	Charsadda (Jhindi) over the Swat river—							
	Boat bridge ...	1	400	360	Throughout	the year	...	...
6	Khiali over the Swat river—							
	Boat bridge ...	2	400	150	Throughout	the year	...	...
7	Adozai over the Cabul river	1	400	280	Throughout	the year	...	...

DIX H.

and major ferries in the Punjab during 1895-96.

are provided with a single roadway).

MAXIMUM NUMBER OF BOATS IN BRIDGE WHEN SET UP.		MINIMUM NUMBER OF BOATS IN BRIDGE WHEN SET UP.		BREADTH OF BOATS IN FEET.		SPAN BETWEEN BOATS IN FEET.		LENGTH OF BAY, CENTRE TO CENTRE OF BOATS IN FEET.		REMARKS, <i>i. e.</i> , BY WHOM BRIDGE OR FERRY IS MAINTAINED, &c.
Government.	Hired.	Government.	Hired.	Government.	Hired.	With trussed beams.	With plain beams.	With trussed beams.	With plain beams.	
20	3	20	3	12'	12'	28'	6'	40'	30'	Maintained by the Executive Engineer, Gujranwalla Independent Executive Charge.
...	
19	...	14	...	12'	...	27'	...	39'	...	Maintained by the Executive Engineer, Kohat Provincial Division. For the ferry $\frac{1}{2}$ deck boats are used, and it usually takes about half an hour to cross; but the time depends on the state of the current.
...	
22	...	15	...	11' to 13'	...	28'	...	40'	...	Maintained by the Executive Engineer, Peshawar Provincial Division.
...	11	...	8	...	13' to 14'	...	11'	...	23'	
...	...	...	...	...	...	...	...	...	...	Ditto ditto.
...	8	...	7	...	13' to 14'	...	11'	...	23'	
...	8	...	5	...	13' to 14'	...	11'	...	23'	Ditto ditto.
...	9	...	8	...	12' to 14'	28'	...	40'	...	
...	10	...	...	...	12' to 14'	...	11' to 15'	...	23' to 27'	Maintained by the Executive Engineer, Peshawar Provincial Division.
...	10	...	7	...	12' to 14'	...	11' to 15'	...	23' to 27'	

Showing particulars connected with boat bridges

(N. B.—All the bridges in the Punjab

Item No.	LOCALITY.	Number of channels for bridge or ferry during 1895-96.	TOTAL LENGTH OF BRIDGE IN FEET DURING 1895-96.		PERIOD BRIDGE IS ESTABLISHED.		PERIOD FERRY IS ESTABLISHED.	
			Maximum.	Minimum.	From	To	From	To
8	Major Ferry over the river Jhelum at Jhelum ...	...	...	...	...	...	1st April 1895	31st March 1896
9	Rajghat over river Jumna—							
	(a) Boat bridge ...	3	480	480	15th Octr. ...	15th June ...	...	...
	(b) „ Ferry ...	...	...	...	...	...	16th June ...	14th Octr. ...
10	Dera Gopipur over river Beas—							
	(a) Boat bridge ...	1	385	385	1st May 1895	28th June 1895	...	...
	(b) „ Ferry ...				4th Octr. 1895	31st March 1896	29th June 1895	3rd Octr. 1895
11	Sanauli over river Jumna—							
	(a) Boat bridge ...	1	216	...	16th Octr. ...	15th June ...	...	...
	(b) „ Ferry ...	...	...	...	...	...	16th June ...	15th Octr. ...
12	Mirghan over river Jumna—							
	(a) Boat bridge ...	1	90	...	16th Octr. ...	15th June ...	...	...
	(b) „ Ferry ...	...	...	...	...	...	16th June ...	15th Octr. ...
13	Khajgipur over river Jumna—							
	(a) Boat bridge ...	1	202	...	16th Octr. ...	15th June ...	16th June ...	15th Octr. ...
	(b) „ Ferry ...	...	...	...	...	...	...	...
14	Memarpur over river Jumna—							
	(a) Boat bridge ...	1	274	274	1st April 1895	10th June 1895	}	}
					15th Octr. 1895	31st March 1896		
	(b) „ Ferry ...	...	...	...	...	...	11th June 1895	14th Octr. 1895

Showing particulars connected with boat bridges

(N. B.—All the bridges in the Punjab

Item No.	LOCALITY.	Number of channels for bridge or ferry during 1895-96.	TOTAL LENGTH OF BRIDGE IN FEET DURING 1895-96.		PERIOD BRIDGE IS ESTABLISHED.		PERIOD FERRY IS ESTABLISHED.	
			Maximum.	Minimum.	From	To	From	To
15	Chansa over river Jumna—							
	(a) Boat bridge ...	1	156	156	1st April 1895	17th June 1895	...	...
	(b) „ Ferry ...	...	...	...	15th Octr. 1895	31st March 1896	18th June 1895	14th Octr. 1895
16	Shahdera over river Ravi—							
	Boat bridge ...	1	987	987	Throughout	the year	...	...
17	Dera Ismail Khan over river Indus—							
	(a) Boat bridge ...	5	2,910	2,264	1st Octr. 1895	15th April 1896	...	...
	(b) „ Ferry ...	...	...	...	...	...	20th April 1895	30th Sept. 1895
18	Dera Ghazi Khan over river Indus—							
	(a) Boat bridge ...	3	4,343	3,812	15th Octr. 1895	15th April 1896	...	...
	(b) „ Ferry ...	...	...	...	...	...	2nd May 1895	11th Octr. 1895
19	Chichawatni over river Ravi—							
	Boat bridge ...	1	695	691	Throughout	the year	...	...

DIX H.

and major ferries in the Punjab during 1895-96—concluded.

are provided with a single roadway).

MAXIMUM NUMBER OF BOATS IN BRIDGE WHEN SET UP.		MINIMUM NUMBER OF BOATS IN BRIDGE WHEN SET UP.		BREADTH OF BOATS IN FEET.		SPAN BETWEEN BOATS IN FEET.		LENGTH OF BAY, CENTRE TO CENTRE OF BOATS IN FEET.		REMARKS, i.e., BY WHOM BRIDGE OR FERRY IS MAINTAINED, &C.
Government.	Hired.	Government.	Hired.	Government.	Hired.	With trussed beams.	With plain beams.	With trussed beams.	With plain beams.	
...	10	...	10	...	14' to 15'	...	2' to 3'	...	14'	Bridge leased out to contractors; country boats are used. It takes two hours in the rainy season, and half an hour in fair weather to cross.
...	
24	...	24	...	11' to 12'	...	28'	...	39' to 40'	...	Maintained by the Public Works Department. There is no ferry.
50	20	47	13	12' to 14'	10' to 15'	27' to 30'	12' to 16'	39' to 40'	12' to 16'	Maintained by the Deputy Commissioner.
...	...	...	...	...	...	...	...	...	...	In the summer ferry boats are used for dāk purposes, and take 3 to 5 hours to cross the river. The steamer worked by the North Western Railway plied throughout the season.
85	20	81	12	10' to 12'	10' to 13'	27' to 28'	...	39' to 40'	...	Maintained by the Public Works Department.
...	...	...	...	...	...	...	...	...	...	In addition to the steamer worked by the North Western Railway, country boats and row boats also plied. The ferry is about 2 miles from the city. During the summer season country boats take from 5 to 6 hours to cross. Row boats take 2 to 3 hours.
17	...	17	...	11½' to 12'	...	27' to 27½'	...	38' to 39'	...	Maintained by the Public Works Department. There is no ferry.

APPENDIX I.

Punjab Provincial Public Works Department Establishment charges for works carried out from Local Funds and other Contributions during 1895-96.

Funds.	Name of work.	Estimated cost.	Outlay previous to 1895-96.	Outlay, 1895-96.	Establishment charges, 1895-96.	Tools and Plant charges, 1895-96.	REMARKS.
	MUNICIPAL WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	
	Intramural drainage scheme at Gujranwalla	31,743	30,420	408	49	...	
	Survey charges of Rawalpindi sewage scheme	38	19	19	...	...
	Ditto ditto ditto	114	...	13	...	...
	Annual repairs to nazul buildings, fort gateway, Sialkot	72	...	72	9	...	
	Removing and refixing water stand stand post in Kohat city	109	31	66	8	...	
	Ditto ditto ditto	30	...	27	3	...	
	Annual repairs, Kohat water-supply	1,931	...	871	...	...
	Deduct chargeable to Imperial Military ... ..	...	...	571	...	...
	<i>Net Contribution</i> ... ..	...	...	300	36	...	
	Water-supply at Haripur	49,086	...	32,146	...	...	Local Loans.
	Deduct debitible to Civil Department ... ..	...	...	16,535	...	...
	<i>Net chargeable to Local Loans</i> ... ..	...	...	15,611	...	...
	Extending river protective works at Dera Ghazi Khan ... ..	...	...	3,35,004	...	...
	Deduct chargeable to Provincial ... ..	...	...	2,97,000	...	...
	<i>Net chargeable to Local Loans</i> ... ..	...	...	38,004	4,561	...	Ditto.
	Water-supply, Dalhousie	50,336	49,972	-173	...	...	Ditto.
	Water-supply, Amballa city	3,58,595	2,28,681	89,805	...	...
	Deduct chargeable to Provincial ... ..	...	51,920	26,651	...	...
	Do. do. District Incorporated Local ... ..	...	25,000	4,092	...	...
	<i>Net chargeable to Municipal and Local Loans</i> ... ..	...	1,51,761	* 59,062	...	...	* Local Loans, Rs. 18,000. Contribution, ,, 41,062.

Maintenance of Kalka water-supply	555		557	57	7
<i>Deduct debit to Miscellaneous advances</i>			26		
<i>Net Contribution</i>			531	57	7
Annual repairs to Tangri protective works at Gopipur	726		700		
<i>Deduct chargeable to District Incorporated Local</i>			350		
<i>Net Contribution</i>			350		
Special repairs to Kalka water-supply	68		68		
Annual repairs, mule road near catchment area—Simla water-supply	187		187		
Water-supply scheme at Delhi	10,42,227	9,48,668	-1,000*	-85	
Delhi drainage works	4,49,368	2,17,857	1,00,252†		
<i>Debited to Civil Department</i>			12,403		
<i>Net Contribution</i>			87,849		
Boring operation, Bhiwani water works			745		
Bringing back the water of Jumna near Calcutta gate			131		
TOTAL MUNICIPAL AND LOCAL LOANS		13,98,728	(a) 2,02,270	4,638	7
PRIVATE.					
Completing chapel attached to the Lawrence Memorial Asylum, Murree	12,174	12,455	54		
<i>Deduct chargeable to Civil Department</i>		1,883			
<i>Net Contribution</i>		10,572	54		
Reconstructing new girder bridge across the river Jhelum at Kohalla	1,18,755	99,533	16,624		
<i>Deduct chargeable to Provincial</i>		59,400			
<i>Net Contribution</i>		40,133	16,624		
Reserve stone for maintenance of Bhimber bund	2,086		1,945		
<i>Deduct chargeable to Provincial</i>			861		
<i>Net Contribution</i>			1,084		
Carried over		50,705	17,762		

MUNICIPAL AND LOCAL LOANS.

PRIVATE AND OTHER FUNDS.

* Local Loans.
† Includes Rs. 85,360 debited to Local Loans.

	(a) Original works.	Repairs.	Total.
	Rs.	Rs.	Rs.
Municipal ...	44,960	1,503	46,468
Local Loans ...	1,55,802		1,55,802
Total ...	2,00,762	1,503	2,02,270

APPENDIX I.

Punjab Provincial Public Works Department Establishment charges for works carried out from Local Funds and other Contributions during 1895-96—contd.

Funds.	Name of work.	Estimated cost.	Outlay previous to 1895-96.	Outlay, 1895-96.	Establishment charges, 1895-96.	Tools and Plant charges, 1895-96.	REMARKS.
	PRIVATE—continued.	Rs.	Rs.	Rs.	Rs.	Rs.	
	<i>Brought forward</i>	...	50,705	17,762	...	...
	Constructing 3 culverts, Grand Trunk road ...	...	...	360	...	...
	Making a box and almirah for G. Ross Kipple, Esq., Turi Mibba ...	30	...	20	...	...
	Constructing gallows in Kohat Jail ...	431	...	287	35	...	
	Supervising construction of new bazar, Kurrum ...	120	119	1	...	...
	Making a tripod for a beam scale, Kohat Jail ...	30	...	29	...	...
	<i>Deduct chargeable to Miscellaneous advances</i>	...	...	2	...	...
	<i>Net Contribution</i>	...	...	27	3	...	
	Completing the survey and drainage of Dera Ghazi Khan ...	243	...	182	...	...
	Watching and protecting Waliwah and Ganeshwah bund during flood season ...	142	...	108	...	...
	<i>Deduct chargeable to Local Fund and Provincial</i>	...	...	90*	...	...	*Local Fund ... Rs. 36 Provincial ... 54
	<i>Net chargeable to Contribution</i>	...	...	18	...	...
	Addition and alteration to Lady Aitchison hospital, Lahore ...	5,654	3,982	2,000	...	...
	<i>Ditto ditto to new wing of ditto</i>	1,045	...	1,045	...	...
	Fittings to Jubilee museum, Lahore ...	9,782	1	1,378	...	...
	Special repairs to Nulwah bridge on Pathankot road ...	1,422	941	1,261	...	...
	<i>Deduct chargeable to Provincial</i>	...	941	761	...	...
	<i>Net chargeable to Contribution</i>	...	...	500	...	...
	Water-supply at Amritsar ...	2,380	...	2,380	...	...
	Drainage of Multan city ...	1,368	...	753	...	...
	Maintenance of water-supply at Dalhousie ...	...	8	204	...	...

(76)

PRIVATE AND OTHER FUNDS—concluded.

Beas river protective works at Dhusi bund	18,266	8,340	6,909	...	...
<i>Deduct chargeable to Provincial</i> ... ..	...	3,100	1,668	...	...
<i>Net Contribution</i> ... ..	...	5,240	5,241	482	31
Annual repairs to Beas river protective works	1,855	...	1,462	...	...
<i>Deduct chargeable to Provincial</i> ... ..	...	...	273	...	...
<i>Net Contribution</i> ... ..	...	...	1,189	224	15
TOTAL PRIVATE AND OTHER FUNDS ... ..	...	60,055	(b) 33,347	746	46
DISTRICT.					
Protective works at Ahmadabad	2,240	...	2,198	...	...
<i>Deduct chargeable to Provincial</i> ... ..	...	...	1,198	...	...
<i>Net chargeable to District (Incorporated Local) Funds</i> ... ..	...	...	1,000	...	...
Water-supply, Amballa city	3,58,595	2,28,681	89,804	...	...
<i>Deduct chargeable to Provincial Fund</i> ... ..	...	51,920	26,651	...	...
<i>Ditto Local Loans</i> ... ..	...	...	18,000	...	...
<i>Ditto Contributions</i> ... ..	...	1,51,761	41,061	...	...
<i>Net debit to District (Incorporated Local) Funds</i> ... ..	...	25,000	4,092	...	...
DISTRICT.					
Strengthening the Binwan bridge on Palumpur and Bajjnath road	3,603	1,842	247	...	...
Constructing Jubilee High school at Rohtak	21,804	...	4,974	597	75
Surveying operations in connection with feeder roads to be taken up as famine relief works	623	...	412	49	6
Surveying Jhaggar-Dudri road, Beredghat ; and Rohtak-Gohana road	20	...	22	...	...
Annual repairs to feeder roads on Delhi-Amballa-Kalka Railway	990	...	992	119	15
<i>Ditto to Rohtak and Bhiwani road</i>	658	...	1,089	131	16
Surveying and preparing a project for improving and metalling the Jhaggar and Bahadurgarh road	70	...	67	8	1
Maintenance of plantations on Rohtak and Bhiwani road	42	...	45	5	1
Collection of metal on Rohtak and Bhiwani road	6,090	...	4,346	522	65
Repairs to Mohindwari bridge ... ..	...	...	2,097	252	31
Ordinary maintenance, Delhi and Sirsa road	2,074	...	2,150	...	...
<i>Deduct chargeable to Provincial Fund</i> ... ..	...	...	1,333	...	...
<i>Net debit to District (Incorporated Local) Funds</i> ... ..	...	...	817	98	12
<i>Carried over</i> ... ..	...	26,842	20,200	1,781	222

			Rs.
(b) Original works	...	...	30,852
Repairs	...	...	2,495
			<u>33,347</u>

No percentage charged for Establishment.

APPENDIX I.

Punjab Provincial Public Works Department Establishment charges for works carried out from Local funds and other Contributions during 1895-96—contd.

Funds.	Name of work.	Estimated cost.	Outlay previous to 1895-96.	Outlay, 1895-96.	Establishment charges, 1895-96.	Tools and Plant charges, 1895-96.	REMARKS.
	DISTRICT—concl'd.	Rs.	Rs.	Rs.	Rs.	Rs.	
	<i>Brought forward</i> ...	...	26,842	20,200	1,781	222	
	Collection of metal, Ludhiana and Samrala road ...	2,376	...	2,376	...	...
	Consolidation of metal ditto ...	558	...	352	...	...
	Ordinary maintenance ditto ...	1,509	...	1,500	...	...
	Do. supplementary estimate, ditto ...	249	...	250	...	...
	Do. including petty repairs, Ludhiana and Samrala road ...	73	...	72	...	...
	Annual repairs to Samalka and Chaprauli feeder road ...	300	...	299	...	...
	<i>Deduct chargeable to Provincial Funds...</i> ...	...	...	142	...	...
	<i>Net debit to District (Incorporated Local) Funds</i> ...	...	...	157	19	2	
	Annual repairs to Karnal and Lachnauti feeder road ...	450	...	492	...	...
	<i>Deduct chargeable to Provincial Funds</i> ...	...	...	244	...	...
	<i>Net debit to District (Incorporated Local) Funds</i> ...	...	...	248	30	4	
	Annual repairs to Karnal-Kaithal feeder road ...	1,668	...	1,668	...	...
	<i>Deduct chargeable to Provincial Funds</i> ...	...	...	844	...	...
	<i>Net debit to District (Incorporated Local) Funds</i> ...	...	...	844	101	13	
	Annual repairs to Panipat and Safidon feeder road ...	675	...	673	...	...
	<i>Deduct chargeable to Provincial Funds</i> ...	...	...	338	...	...
	<i>Net debit to District (Incorporated Local) Funds</i> ...	...	...	335	40	5	

DISTRICT—cont'd. ...

DISTRICT—concl'd.

Annual repairs to Panipat and Kirana feeder road ...	450	...	450	...	...
Deduct chargeable to Provincial Funds ...	...	...	225	...	...
Net debit to District (Incorporated Local) Funds ...	...	...	225	27	3
Ordinary maintenance of Thanesar and Pehowa feeder road ...	428	...	434	...	...
Deduct chargeable to Provincial Funds ...	...	...	210	...	...
Net debit to District (Incorporated Local) Funds ...	...	...	224	27	3
Maintenance of feeder road on Thanesar and Ladwa road ...	540	...	540	65	8
Ditto Adhawa-Kharindwa road ...	473	...	470	56	7
Ditto Thanesar and Pehowa road ...	270	...	271	32	4
Annual repairs to Chandigarh and Mani Majra road ...	90	...	89	11	1
Repairs to approaches of a canal bridge on Panipat and Safidon road ...	339	...	298	36	5
Annual repairs to Tangri protective works at Ghazipore ...	726	...	700	...	...
Deduct chargeable to Contribution ...	...	...	350	...	...
Net debit to District (Incorporated Local) Funds ...	...	...	350	...	...
Watching and protecting Waliwah and Ganeshwah bund during flood season ...	142	...	108	...	...
Deduct chargeable to Provincial and Contribution ...	...	...	72	...	...
Net chargeable to District (Incorporated Local) Funds ...	...	...	36	...	...
Special repairs to Unah Rest-house, Hoshiarpur District ...	34	...	34	4	1
TOTAL DISTRICT (INCORPORATED LOCAL) FUNDS ...	...	26,842	28,871	2,229	278

MILITARY DEPARTMENT.

MILITARY AND OTHER DEPARTMENTS.

Constructing water-supply at Tangi and three open tanks ...	...	...	5,771	1,327	87
Ditto three open tanks at Landi Kotal ...	...	...	2,290	527	34
Ditto 2nd boat bridge at Nowshera ...	...	...	355	82	5
Ditto 2nd reservoir ...	...	...	-133	-31	-2
Special repairs to Nowshera and Mardan road ...	...	...	4,912	1,130	74
Maintenance of Mardan and Dargai road ...	...	...	320	74	5
Repairs to railings on Grand Trunk road ...	...	...	132	30	2
Ditto godown at Khairabad ...	...	...	71	16	1
Carried over ...	...	...	13,718	3,155	206

Debited to transfer Public Works Department (Military Works Department.)

APPENDIX I.

Punjab Provincial Public Works Department Establishment charges for works carried out from Local Funds and other Contributions during 1895-96—concl.

Funds.	Name of work.	Estimated cost.	Outlay previous to 1895-96.	Outlay, 1895-96.	Establishment charges, 1895-96.	Tools and Plant charges, 1895-96.	REMARKS.																				
MILITARY DEPARTMENT—concluded.																											
	<i>Brought forward</i>	Rs.	Rs.	Rs.	Rs.	Rs.																					
		13,718	3,155	206																					
MILITARY AND OTHER DEPARTMENTS—concl.	Constructing 2nd boat bridge, Nowshera	18,299	4,209	275	} Debited to Central adjusting account.																				
	Strengthening anchoring arrangements, Nowshera boat bridge	6,536	1,503	98																					
	Special repairs to Nowshera boat bridge	12,350	2,841	185																					
	Furniture for field hospital, Mardan	118																					
	Extension of encamping ground at Barracow and Tret	836	30	2																					
	Haripur water-supply	16,535	} Debited to Civil Department.																				
	Delhi drainage works	12,403																					
	Water-supply experiments in Tochi valley	2,149	494	32	} Debited to Central adjusting account.																				
	Supplying hospital furniture to No. 21 field hospital for troops in Tochi valley	52	5	...																					
	Certain repairs to Goorkha guard house at "Snowdon," Simla, the residence of H. E. the Commander-in-Chief in India	88	20	1																					
	Total Military and other Departments	83,084	12,257	799	} Debited to transfer Public Works Department (Military Works Department.)																				
	GRAND TOTAL	...	14,85,625	3,47,572	19,870	1,130																					
	<i>Deduct charged to District (Incorporated Local) Funds</i>	2,229	...																					
	TOTAL	17,641	...																					
<table style="margin-left: auto; margin-right: 0;"> <tr> <td></td> <td style="text-align: center;">Rs.</td> <td style="text-align: center;">Rs.</td> </tr> <tr> <td>Local Loans</td> <td style="text-align: right;">... = 1,55,802</td> <td></td> </tr> <tr> <td>Municipal</td> <td style="text-align: right;">... = 46,468</td> <td rowspan="2" style="font-size: 2em; vertical-align: middle;">}</td> </tr> <tr> <td>Private</td> <td style="text-align: right;">... = 33,347</td> </tr> <tr> <td>District (Incorporated Local) Funds</td> <td style="text-align: right;">28,871</td> <td></td> </tr> <tr> <td>Military and other Departments</td> <td style="text-align: right;">83,084</td> <td></td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">... 3,47,572</td> <td></td> </tr> </table>									Rs.	Rs.	Local Loans	... = 1,55,802		Municipal	... = 46,468	}	Private	... = 33,347	District (Incorporated Local) Funds	28,871		Military and other Departments	83,084		Total	... 3,47,572	
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