Administration report of the Public works department. in the state of Bombay. For the year 1940/41,

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Important works carried out under the following heads :---

A---CIVIL BUILDINGS Central Services-Archeological Works ... Provincial Services-Land Revenue, Excise, Forest, Registration, General Administration, Residences for Heads of Provinces, Provincial Councils, Residences, Secretariat and Head Quarters, Establishment, Administration of Justice, Jails and Convict Settelments, Police, Educational, Medical, Aministration Statistical Policies, Statistical Medical, Agriculture, Stationery and Printing, Civil Works, Public Health and. Miscellaneons Departments Government Central Stores, Workshop and Training Centre, Dapuri B-ELECTRICAL Electric Licences-Electric Duty, Electrical Works C --- COMMUNICATIONS (1) Communications financed from ordinary Revenues (2) Communications financed from Petrol Tax Fund (3) Communications financed from Provincial Road Fund (4) Deposit Contribution Works (5) Arboriculture •• • • • • . . (6) Scarcity Works .. • • D-MISCELLANEOUS. Public Health, Water Supply and Drainage Works, etc. . .

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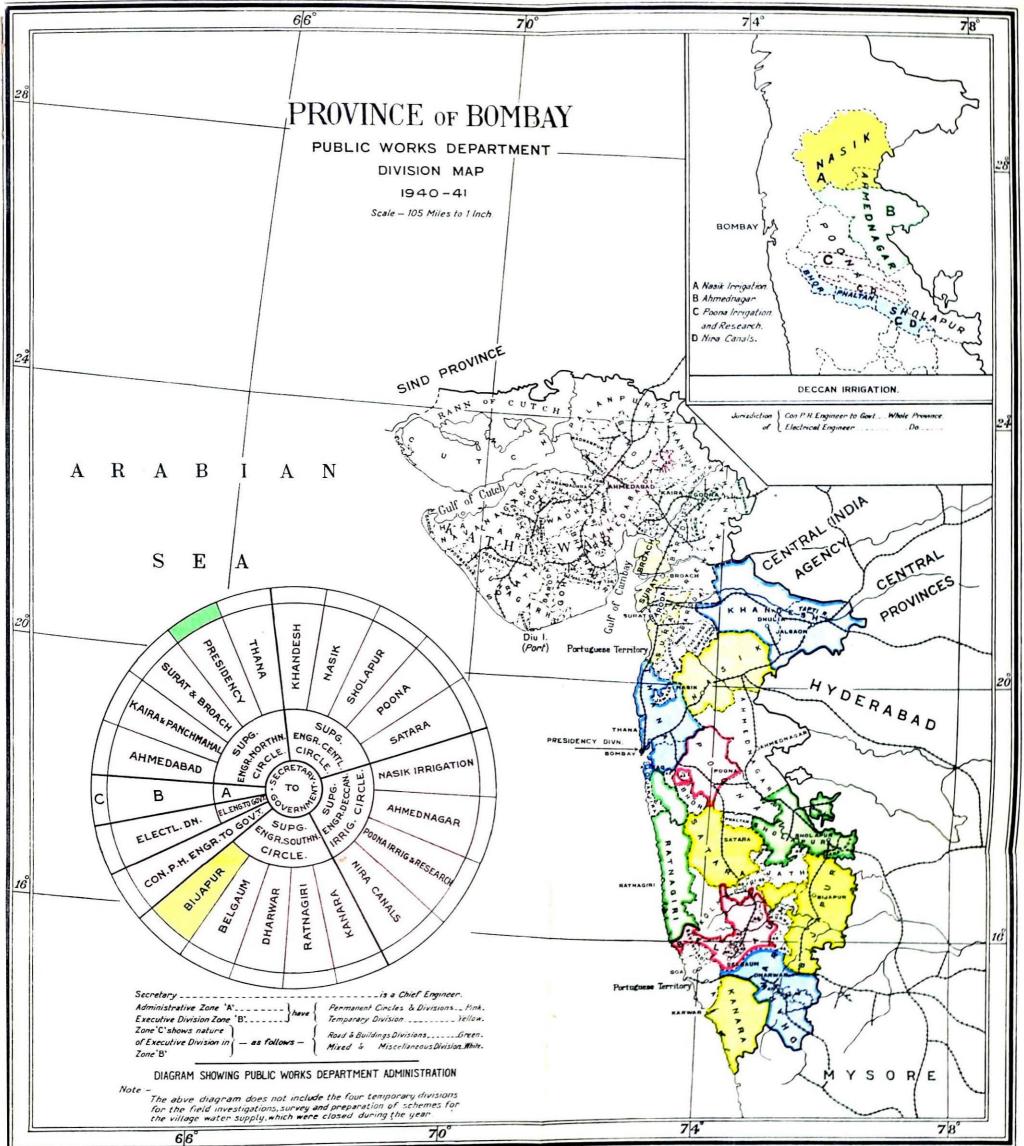
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PUBLIC WORKS DEPARTMENT.

Province of Bombay.

ADMINISTRATION REPORT WITH A DETAILED REVIEW OF THE CIVIL WORKS FOR THE YEAR 1940-41.

I.-DIRECTION.

During the year under report the following officers continued to hold the posts shown :---

| Mr. C. E. Aitken, C.I.E., B.Sc. (Edin.), I.S.E. | Chief Engineer and Secretary to Government. |
|--|--|
| Mr. R. H. Hammett, M.Inst. C.E., I.S.E. | Deputy Secretary to Govern- ment in charge Roads, Build- ings and Electricity. |
| Mr. U. N. Mahida, B.E., I.S.E. | Deputy Secretary to Govern- ment in charge Irrigation and Railways and Public Health Works. |
| Mr. P. F. Dias, J.P | Assistant Secretary to Govern- ment. |

II.—ADMINISTRATIVE MEASURES.

Government issued orders in connection with the guarantee for direct appointments to the Bombay Service of Engineers, Class I and Class II, and the Bombay Subordinate Engineering Service, to students passing out of the College of Engineering, Poona.

In respect of appointments to the Bombay Service of Engineers, Class I and Class II, the guarantee is given to students who enter the College in 1940 and onwards and who will graduate in 1943 and onwards. Subject to certain terms and conditions the guarantee provides for—

(a) one appointment to the Bombay Service of Engineers, Class I, anually with effect from the year 1943 with one additional appointment in 1945 and every third year thereafter; and

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(b) two appointments to the Bombay Service of Engineers, Class II, anually with effect from the year 1943 with one additional appointment in 1944 and every third year thereafter.

The guarantee given in respect of appointments to the Bombay Subordinate Engineering Service provides for three appointments annually to that service with effect from the year 1941 to be made from students passing the Diploma Course in Civil Engineering at the College of Engineering, Poona, subject to certain conditions.

The above guarantees have been given subject to such future alterations as may be considered necessary by Government from time to time.

III.—TERRITORIAL CHANGES.

The four Public Works Department Divisions, which were specially created last year for field investigations, survey and preparation of schemes for the provision of adequate drinking water in villages where such supplies are scarce, were closed during the year.

The continuance of the temporary Bijapur Division was sanctioned for a further period of 3 years from the 1st March 1940.

The following temporary sub-divisions were continued during the year :--

Dohad Sub-division in the Kaira and Panch Mahals Division;

Hubli Irrigation Sub-division in the Dharwar Divison; and

Bijapur Tank Sub-division in the Bijapur Division.

A temporary sub-division, with headquarters at Jhalod, was opened in the Kaira and Panch Mahals Division on the 23rd April 1940 in connection with scarcity works in the Jhalod Mahal and was closed on the 27th August 1940.

The Minor Tank Sub-division in the Poona Division was abolished with effect from the 11th September 1940.

IV.-DETAILED REVIEW.

A.-CIVIL WORKS.

(i) Central.

The administrative control of the Central Works in this Province, with the exception of Archæological, works, Trigonometrical Stations and the Primary Protected Bench Marks, was transferred to the Central Public Works Department with effect from the 1st April 1940.

Archaeological Works.

No important works under this head were carried out during the year but a sum of Rs. 34,312 was spent on repairs and maintenance.

(ii) Provincial.

Rs.

| Land Revenue- | | | | | 113. |
|------------------|---------------|-------------|-------------|----------|------------------|
| Works | | | | | 1,438 |
| Repairs | | •• | •• | * • | 6,018 |
| Trobarra | •• | | ••• | - | |
| | | | | | 7,456 |
| Excise- | | | | - | |
| . Works | | | | | 0,660 |
| Repairs | | | | | 9,864 |
| | | | | _ | |
| | | | | 5 | 0,524 |
| Forest— | ر | | | | |
| Works | | | | • • | 3,016 |
| Repairs | •• | •• | • • | | 0,535 |
| Tichana | •• | •• | •• | | |
| | | | | 1 | 3,551 |
| | | | | , | |
| Registration— | | | • | | |
| Works | •• | •• | • • | •• | 155 |
| Repairs | •• | •• | • • | •• | 173 |
| • | | | | | 328 |
| General Administ | | | | | |
| (a) Residences | of Heads of | Provinces- | | | |
| Works | •• | •• | • • | 3 | 1,816 |
| Repairs | •• | | •• | 1,9 | 9,393 |
| | | | | <u> </u> | 1 000 |
| | | | | 2,3 | 1,209 |
| (b) Provincial I | Legislatures- | | | | |
| Works | | | • • | •• | 284 |
| Repairs | •• | • • | | 1 | 2,444 |
| • | | | | _ | ور حسبه |
| | | | | 1 | 2,728 |
| (c) Secretariat | and Head Q | uarters Est | ablishment– | | |
| Works | •• | / ` | | 1 | 1,692 |
| Repairs | • • | | •• | | ,856 |
| • | | | | | · |
| | | | | 1 | 6,548 |
| | | | | | A REAL PROPERTY. |

| Υ | | | | Ks. |
|----------------|--------------|--------------|-----|-----------------------|
| (d) Commission | ners and Dis | trict Office | rs— | |
| Works | •• | •• | | 89,666 |
| Repairs | | ٠. | ÷ • | 1,31,8 91 |
| - | | | | $\overline{2,21,557}$ |
| | | | | |

An expenditure of Rs. 43,818 on account of payment of compensation for the resumption of the Travellers' Bungalow from the District Local Board, Ahmedabad, for the purpose of accommodating certain Government offices there and of Rs. 10,285 on the work of certain additions and alterations to the Historical Museum at Satara (now converted into Revenue Offices) was incurred during the year under report under this head.

| Works | | | •• | 1,46,965 |
|---------|-----|----|----|----------|
| Repairs | * • | •• | •• | 63,774 |

The work of construction of the four storied structure containing the Barristers' Chambers, Offices, etc., in connection with the extension of the High Court Buildings, Bombay, mentioned in the last report, was in the final stage of completion during the period under review. The total expenditure on the work of superstructure from the date of commencement in March 1940 to the end of the period under report was Rs. 1,29,415. The construction of garages adjoining the new extension to accommodate 5 cars in each started in August 1940 was also completed during the year at a cost of Rs. 6,104. The question of making additions and alterations to the existing building by providing additional lavatories was under the consideration of the High Court authorities. The total expenditure on the whole acheme was Rs. 1,58,011.

| Jails and Convic | t Settlements- | - | | US: | |
|------------------|----------------|------------|----|----------|---|
| Works | •• | <i>~</i> - | | 49,236 | , |
| Repairs | •• | ٠. | •• | 56,114 | : |
| | | | | 1,05,350 | |

The construction of the new Sub-Jail at Nadiad in the Kaira District referred to in the last report was the only important work under execution during the year. The total outlay on this work which consisted of bathing platforms, grinding and kitchen rooms, fort-wall, water storage tanks, latrine blocks, roads and gutters, water supply arrangement, provision of (i) a walling of asbestos sheets,

.

4

Rs.

(ii) expanded metal Metting to the windows, (iii) cupboards and (iv) deepening of wells, etc., was Rs. 65,428 inclusive of electric installation. This work was completed and handed over to the administrative department in February 1941.

| Police- | | | | Rs. |
|---------|-----|----|-----|----------|
| Works | • • | •• | • • | 6,04,654 |
| Repairs | •• | •• | •• | 2,34,914 |
| | | | | 8,39,568 |
| | | | | |

The following works in connection with the scheme for "Constructing quarters for Police officers and men and buildings for Police stations, etc., in Greater Bombay", were in progress during the year :---

(1) additions and alterations to the Police Station at Bandra,

(2) Police accommodation scheme at Vile Parle,

(3) Police accommodation scheme at Kurla,

(4) Police accommodation scheme at Andheri,

and

(5) construction of quarters for 75 constables at Bandra.

Of these, the work mentioned at No. (1) which was in progress during the previous year was completed in all respects and handed over to the Police Department for occupation.

The works referred to at Nos. (2) and (3) have also been completed. The proposal to provide at these centres a compound wall, internal roads and garages for cars and lorries has since been approved by Government.

The work mentioned at No. (4) has been completed at a total cost of Rs. 1,09,084. It is proposed to provide at this centre a compound wall and gates.

The last work forms part of the general police accommodation scheme at Bandra and provides for the following items :---

(1) two three-storied blocks of constables' quarters, one of 54 units and the other of 21 units,

(2) sanitary arrangements for the proposed and existing structures,

(3) an approach road in the compound for the block of constables' quarters of 21 units, and

(4) garages for 2 motor cars.

This work was started in February 1941 and was in progress during the period under review. It is expected to be completed in August 1941. In addition to the above, the six works noted below were also undertaken during the year and were in progress :--

(1) Construction of quarters for 4 Head Constables, I and II Grade, and 88 Constables (including Head Constables, III and IV Grade) of Gomtipur Police Station in Survey No. 95 of Sherkotda, Ahmedabad.

This Police Station is at present located in a hired building which provides accommodation for the Police Station on the ground floor and for the Sub-Inspector on the first floor. Only three men are accommodated in Government quarters, the rest living in rented ones. The present scheme provides for 4 blocks of 24 units each, 12 on the ground floor and 12 on the first floor with a kitchen, a bath-room, living room, verandah and two blocks of latrines of 12 seats each.

(2) Construction of a Police Station and Quarters for 2 Sub-Inspectors of Police-Sherkotda, Ahmedabad. This Station provides for offices of Inspectors and Sub-Inspectors on the ground floor and quarters for 2 Sub-Inspectors of Police on the first floor.

(3) Construction of a Block of a Police Station and Quarters for 2 Sub-Inspectors of Police and also quarters for 4 Head Constables (I and II Grade) and 66 Constables (including Head Constables, III and IV Grade) at Kagdapith in Survey No. 14 of Sherkotda, Ahmedabad.

An entirely new Police Station is to be opened in the area now administered by the Sherkotda Police Station so as to relieve the pressure of work. The estimate for this work provides for 3 blocks of constables' quarters accommodating 12 on the ground floor and 12 on the first floor. It also provides for a Police Station with quarters for 2 Sub-Inspectors of Police on the first floor. The site for this station has been taken from the Ahmedabad Municipality in exchange for another piece of Government land and as such it does not cost Government anything for the acquisition of the site.

(4) Construction of a Police Station and Quarters for two Police-Sub-Inspectors in the compound of the present Sherkotda Police Station on the Station Road, Ahmedabad. The present building is not suitable for modern requirements and has therefore to be dismantled and a new building erected on the same site according to the plans approved for the Police Scheme (Bombay Suburban District) with quarters for 2 Sub-Inspectors of Police on the upper storey.

(5) Construction of a Police Station for 2 Sub-Inspectors of Police. at Navrangpura, Ahmedabad.

This station is to be constructed to the North of the Ellis Bridge Police Station and near the New Shahpur Bridge. The Police Station will be located on the ground floor and the quarters on the upper floor. (6) Construction of quarters for men of Sherkotda Police Station, Ahmedabad.

Land has been acquired for constructing quarters for Sub-Inspector, 6 Head Constables and 136 Constables of the Sherkotda Police Station, Ahmedabad, at a cost of Rs. 29,013. The construction work will be taken in hand shortly.

Rs.

Education-

| auton | | | |
|---------|-------|-----|----------|
| Works | • • · | •• | 1,62,979 |
| Repairs | • • | ••• | 80,362 |
| | | | |
| | | | 2,43,341 |
| | | | |

Construction up to plinth level of the new Government Law College building, Bombay, on plots Nos. 19 and 34 in Block No. I of the Back Bay Reclamation Scheme which was reported to be in progress in the previous Report was completed in March 1941 at a cost of Rs. 41,438. The work of superstructure was in progress during the year. The construction of and improvements to certain buildings for Physical Education at Kandivli mentioned in the last year's report were in progress and the Hostel for lady students and quarters for the lady superintendent were nearly completed. The work of protecting wells and pump houses were also in progress during the year.

| | | - | Rs. |
|-------------------------------------|----|------|----------------------|
| <i>Medical—</i> Works Repairs | •• | | 1,41,353 1,64,288 |
| | | | 3,05,641 |

The following important works were carried out during the year under this head :---

(1) extension and improvements to Bai Motlibai Hospital, Bombay,

(2) construction of a new Outpatients' Department and Laboratory on the ground floor, quarters for Nurses on the first floor and quarters for medical students on the second floor in the compound of the Cama and Albless Hospitals, Bombay,

(3) extension of the N. M. Mental Hospital, Thana,

(4) construction of quarters for 48 attendants at the Central Mental Hospital, Yeravda,

(5) providing additional accommodation for patients at the Central Mental Hospital, Yeravda, (6) construction of an annexe for the treatment of outdoor tuberculosis patients in the Civil Hospital at Belgaum;

and

(7) Construction of two bore wells in the compound of the Mental Hospital, Dharwar.

The New Outpatients' Department building in the compound of the Cama and Albless Hospitals, referred to at No. (2) above, has been designed to be a three-storied one having stone walls, R. C. C. beams and slabs. The ground floor is proposed to be used as an Outpatients' Department and will consist of (i) waiting hall, (ii) ticket office, (iii) dispensary, (iv) consulting rooms, (v) X-Ray and Ultra-violet Rooms and (vi) Laboratories. The first floor which consists of small and big rooms and two common rooms will be used as Nurses' quarters.

The work of the ground and first floor was nearing completion and that of the second floor was in progress during the year.

| Public Health— | | | Rs. |
|----------------|-----|-----|--------|
| Works | | •• | 21,723 |
| Repairs | • • | • • | 23,134 |
| | | | · |
| • | | | 44,857 |
| | | | |

The important work carried out under this head was the construction of semi-permanent stables for horses in the compound of the Haffkine Institute, Parel, consisting of (1) a block of stables for 18 horses and (2) a shed for horses in the Paddock. The floor of this structure is of cement concrete specially constructed with a non-slip surface.

| Agriculture— | t | | | Rs. |
|--------------|------|------|------------|--------|
| Works | •• | • • | | 3,477 |
| Repairs | •• | •• | •• | 11,221 |
| Veterinary- | | | _ | 14,698 |
| Works | | | - | |
| | •• • | ••.• | •• | 1,451 |
| Repairs | (• • | •• | •• | 6,327 |
| Industries | | | | 7,778 |
| Works | | | <i>e</i> . | |
| | •• | •• | •• | 12,679 |
| Repairs | •• | •• | •• | 3,008 |
| | | | | 15,687 |
| | _ | | · - | |

The only important work carried out under this head was the dismantlement of the old corrugated sheet structure adjoining the new building of the Tanning and Leather Working School at Khar (Chamdevaleki Wadi) in the Thana Division, and the construction of a pucca structure to accommodate the Superintendent's office, etc. The necessary sanitary and water supply arrangements were also made.

| Civil Works | | | | | Rs. |
|---------------------|----------|----|-----|------|----------|
| Works | •• | •• | •• | | 31,025 |
| Repairs | •• | •• | | •• | 1,78,437 |
| . ; | | | | - | 2,09,462 |
| Stationery and Prin | ning- | | | - | |
| Works | ••• | | | •• | 1,303 |
| Repairs | • • | •• | ••. | •• | 13,389 |
| r | 、 | | | | 14,692 |
| Miscellaneous Depa | urtments | - | | - | <u> </u> |
| Works | ••• | •• | •• | •• | 52,367 |
| Repairs | | | •• | · •• | 7,443 |
| | | | | - | 59,810 |
| | | | | - | |

The following four works were carried out under this head during the period under review for the use of the Labour Welfare Department :---

(1) Workers' Recreation Pavilion at Worli,

(2) Pavilion at Naigaum,

(3) Gymnasium at the Development Department Chawls at Naigaum, and

(4) Gymnasium at the Development Department Chawls at DeLisle Road.

| Special Develops | nent Program | me— | | / | Rs. |
|------------------|--------------|-------|-----|----|--------|
| Works | • | • • | •• | •• | 4,387 |
| 50—Civil Works | -Miscellaneo | nus — | | | |
| Works | •• | •• | •• | •• | 2,130 |
| Repairs | • | •• | • • | •• | 45,355 |
| | | | | - | 47,485 |

A statement showing the expenditure on Civil Works during the period under review has been included in this report as Appendix I. The statement showing expenditure on Provincial Buildings and Roads will be found in Appendix IV to this report with an explanatory graph following the same.

Government Central Stores, Workshop and Training Centre, Dapuri.

The outturn in the Workshop during the year was Rs. 2,21,602 as against Rs. 1,27,902 of the previous year. This was the largest output

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since the year 1926-27, the average for the last several years being Rs. 1,50,000. After paying all charges for establishment, repairs, interest, depreciation on buildings and machinery, etc., there was a net profit of Rs. 20,126. The working for the year was, therefore, satisfactory.

The number of work orders opened was 599 and closed was 602 as against 456 and 474 respectively for the previous year.

Out of the three apprentices who completed their 5 years' training two were employed in the workshops. In 1940 a scheme for assisting persons affected by Prohibition was started and men were taken up for training in the Workshops. Six men were sent by the Employment Officer for training for 3 years and they were paid at Rs. 20 per mensem each. They were also provided with free quarters on the premises and after the stipulated period, they will be employed in the Workshops on payment according to their merits. Government has also sanctioned a revised scheme for admission and training of apprentices stipulating new educational qualifications.

The works of a varied and urgent nature undertaken in the Workshops included the erection of a new 34 B. H. P. Engine in the Machineshop No. 2. Various other works were completed such as parts for tidal apparatus for the Director, Central Irrigation and Hydrodynamic Research Station, Poona, mooring posts, gas retort, ventilators, 36" flap valve for Surat, $4' \times 4' \times 4'$ cast iron strainer for Dharwar Water Works, work for Photozinco office, etc. Nearly all the cast iron specials for the new Paterson filters at Kirkee Water Supply were manufactured at Dapuri at a cost of Rs. 43,000.

Cost of repairs to Road Rollers carried out amounted to Rs. 56,349. 46 Road Rollers were inspected of which 36 were steam, 9 Diesel and 1 petrol.

In addition to the above 60 cast iron socket gates, 16 C. I. ordinary Dapuri type gates and 22 M. S. gates for irrigation were manufactured at Dapuri costing Rs. 22,600.

B-ELECTRICAL.

Electric Licenses.

Eight new licences were granted during the year under report for the supply of electrical energy to Karwar, Athni, Kopargaon, Pachora, Belapur Town and Belapur Road, Dhond, Nira-Lonand and Koregaon, while several additional applications were under the consideration of Government. The sanctions granted in the past under Section 28 of the Indian Electricity Act, 1910, for the supply of electrical energy to Haveri, Panchgani, Nipani and Dohad were also converted into regular licences during the year. By the end of the year under review, electricity had been introduced in 62 centres in the Province, while 11 other centres were in the process of being electrified.

Electricity Duty.

The Electricity Duty was first imposed by the Bombay Finance Act of 1932 and has continued to be in operation. The duty was enhanced in respect of certain areas by the Bombay Finance (Amendment) Acts, 1938 and 1939. The receipts from the tax amounted to Rs. 32,84,463 during the year 1940-41.

During the year under report an expenditure as detailed below was incurred under all fund heads by the Electrical Branch :---

Rs.

| (1) New works | and | additions | to | the | existing | |
|-------------------|-----|-----------|----|-----|----------|----------|
| installations | • • | •• | | | •• | 87,679 |
| (2) Repairs | •• | •• | | •• | •• | 1,55,508 |
| (3) Tools and Pla | nt | •• | | •• | | 11,641 |
| | | | | | - | |
| | | | | | | 2,54,828 |
| | | | | | - | · |

One hundred and seventy-six original works were carried out in all as against three hundred and forty-seven during the previous year. The number of special repair works carried out was 90 against 93 of the last year.

The important original works carried out during the year were the following :---

- (1) Providing electric installation in the cells in the D. C. Jail, Yeravda,
- (2) Providing electric installation and a pumping set in the new Sub-Jail including Jailor's Quarters, Nadiad,
- (3) Providing electric installation in the New Government Law College, Bombay,
- (4) Providing electric installation in the Hostel for the Training College for Men, Poona,
- (5) Providing A.C. supply for X-ray units at the G. T. Hospital, Bombay,
- (6) Providing electric installation in the Outpatients' Department and Quarters for Nurses and Students in the Cama and Albless Hospitals, Bombay,
- (7) Providing additions to electric installation in the Central Hospital for Mental Diseases, Yeravda,
- (8) Providing additions to electric installation in the Haffkine Institute, Parel, Bombay,

- (9) Providing additions and special repairs to electric installation in the Haffkine Institute, Parel, Bombay,
- (10) Providing electric installation in the Executive Engineer's bungalow, Dhulia,
- (11) Providing electric installation in the Industrial Training Workshop, Ahmedabad,
- (12) Providing electric installation in the Workers' Recreation Pavilion at Naigaum,
- (13) Providing electric installation in the Workers' Recreation Pavilion at Worli,
- (14) Extending the existing suction pipe lines of the Victoria Swimming Bath and the outlet pipe line, Back Bay Bath, Bombay,
- (15) Providing electric installation in the Electrical Engineering Laboratory, R. C. Technical Institute, Ahmedabad,
- (16) Providing an electric pumping plant at the Borstal School, Dharwar,
- (17) Providing electric installation in the Police Buildings in connection with the Greater Bombay Scheme, and
- (18) Extending the power supply line from Wing to Nasrapur and from Shirwal to Padegaon, Lonand and Nira.

The first stage of the rural electrification scheme was completed during the year 1939-40. The next stage of the project was the extension of the transmission lines to Nasrapur and to Padegaon, Lonand and Nira and it has been completed. Supply is now available at low and medium pressures for use in the areas of the above villages and licences have been granted to supply energy at Shirwal, Lonand and Nira. Supply is now available in all these places.

The revenue realized from the sale of electricity on the Bombay Development Scheme was Rs. 13,426 as against Rs. 13,227 of the last year, the expenditure thereon being Rs. 11,821 against Rs. 19,067 last year.

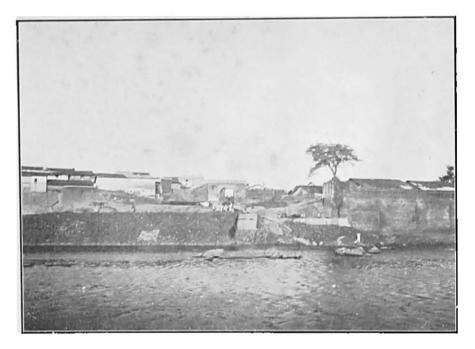
A graph showing the units of electricity sold during the year has been included in this report.

C-COMMUNICATIONS.

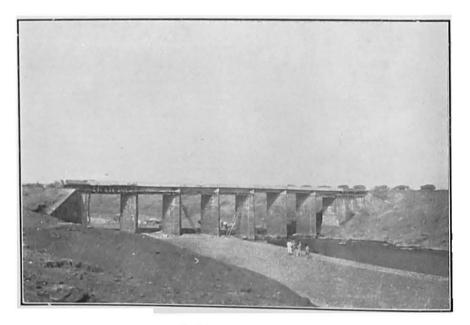
The expenditure under this head may generally be classified under the following three heads :—

(i) works financed from ordinary revenues,

- (ii) works financed from Petrol Tax Fund, and
- (iii) works financed from the Provincial Road Fund.



Watrak River Pitching at Kaira.



Machhan River Bridge.

G. P. Z. P. 1941.

The amount spent on original works and repairs on communication works financed from ordinary revenues was Rs. 34,27,842 while those spent from the Petrol Tax and the Provincial Road Funds were Rs. 18,56,198 and Rs. 10,63,807 respectively.

(i) Expenditure from ordinary revenues.

The following were some of the important works either completed or in progress :---

- (1) Constructing a three stage landing at Dharamtar,
- (2) Widening the Bandra-Ghodbunder Road in Town Planning Scheme No. III, Bandra,
- (3) Widening the Mahim Causeway at Bandra. (This work was partly financed from the contribution made by the Bombay Municipality and partly from the Petrol Tax Funds),
- (4) Flood protective measures in connection with the Hope Bridge at Surat,
- (5) Protection of Kaira Town by pitching at north-west corner of Kaira Fort Wall,
- (6) Diversion of Kaira-Mehmedabad Road at Kaira Town,
- (?) Improving and widening the Machhan river bridge in mile No. 16/1 of Dohad-Jhalod Road,
- (8) Construction of a submersible bridge over the River Indrayani at Dehu in the Poona Division,
- (9) Construction of an R. C. C. submersible bridge over the Krishna River on the Karad-Bijapur Road,
- (10) Strengthening masonry works on the Bombay-Agra Road in the Khandesh and Nasik Divisions,
- (11) Improvements to the Taloda-Shahada Road (Section I from Taloda to Prakasha),
- (12) Taloda-Raisingpur Road, part I-earth-work and metalling,
- (13) Additions and alterations to the cause-way over the River Waghur in mile 20 of the Dhulia-Edlabad-Nagpur Road,
- (14) Remetalling and improving miles 237/3 to 243/4 of the Bombay-Agra Road,
- (15) Improving the Sadashivgad-Kadra Road,
- (16) Widening of Belgaum-Hungund Road, section from Kamatgi to Hungund,
- (17) Improvements to Sholapur-Hubli Road, section I, from Sholapur border to Bijapur, part I,

- (18) Improvements to Sholapur-Hubli Road, section II, from Bijapur to junction with Vengurla-Belgaum-Bagalkot-Bellary Road, part I,
- (19) Construction of Sindgi-Moratgi Road up to His Exalted Highness the Nizam's Dominions, and
- (20) Improvements to Beni Nalla Causeway in mile 158 of the Sholapur-Hubli Road.

The expenditure showing the lengths of metafied and unmetalled roads maintained by this Department and the District Local Boards during the year will be found in Appendix II annexed to this report. A statement giving the mileage of surface roads of various types and motorable earth roads is also included as Appendix III. The information regarding expenditure incurred by the District Local Boards on roads in their charge has been given in Appendix V to this report together with a graph representing the same.

(ii) Expenditure from Petrol Tax Fund.

The total amount expended on communication works from this source was Rs. 18,56,198. The amount held by the Government of India to the credit of this Government, to be allotted as and when required, was Rs. 34,52,770 as against Rs. 28,98,710 in the previous year.

All the works under this head were taken up after they were duly approved by the Board of Communications which met once during the year for transaction of business. The names of members of the Board of Communications as on the 31st March 1941 are given in Appendix IX to this report.

The following are some of the important communication works financed from Petrol Tax Fund, completed or in progress, during the year :---

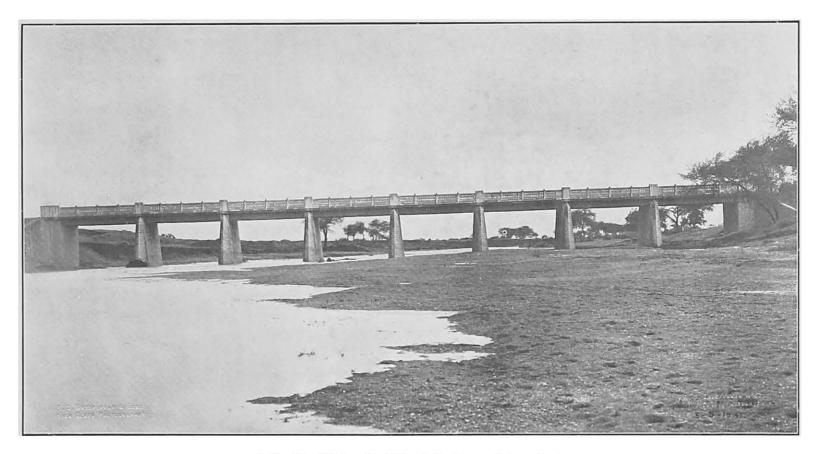
Northern Circle.

- (1) Constructing the Talasari-Vapi Road,
- (2) Widening of the Mahim Causeway at Bandra [vide remark below item (3) in sub-section (i) above],
- (3) Modernizing Alibag-Rewas Road,
- (4) Improvements to Dahanu-Jawhar Road,
- (5) Construction of a high level causeway over the Surya river on Mahim-Wada Road,
- (6) Providing stacking platforms for road-side materials along Bombay-Agra Road--miles 33 to 80,
- (7) Modernizing Bandra-Ghodbunder Road-miles 12/8 to 17/8,

- (8) Constructing a bridge over the Dharotha river in mile No. 13 of Talasari-Vapi Road,
- (9) Construction of an R. C. C. Bridge over the Ghoria Nalla in mile No. 54/5 of Bombay-Agra Road,
- (10) Modernizing Sion-Chembur Road,
- (11) Construction of a vented causeway over the Damanganga river on the Talasari-Vapi section of Bombay-Ahmedabad Road,
- (12) Improving miles 4 to 9/6 of the Matwad-Navsari Section,
- (13) Purchasing the old Narbada River Railway Bridge at Broach,
- (14) Constructing a bridge over the Velparva Khadi on the Vapi-Bulsar section,
- (15) Constructing a causeway with approaches over the Par river in mile No. 6 of the Vapi-Bulsar section,
- (16) Constructing a bridge over the Kolai Khadi in mile No. 4 of the Bulsar-Chikhli section,
- (17) Constructing a bridge over the Dharedi Khadi in mile No. 10 of the Bulsar-Chikhli section,
- (18) Constructing a bridge over the Bhuri Khadi in mile No. 14 of the Bulsar-Chikhli section,
- (19) Raising and widening the bridge over the Khari river in mile No. 9/8 of the Kaira-Bareja section,
- (20) Improving Kapadvanj-Bibipura Road-miles 1 to 8,
- (21) Constructing an R. C. C. Bridge over the Watrak River at Kaira, Kaira-Bareja section,
- (22) Constructing a road from Borsad to Bhadran on the Jambusar-Borsad section,
- (23) Constructing a road from Limdi to Sanjeli,
- (24) Constructing Anas-Katwara Road,
- (25) Constructing Limdi-Pethapur-Chakalia-Dohad Roadsections 1 to III,
- (26) Constructing a road from Dholera town to New Dholera Port,
- (27) Improvements to Bavla-Bagodra Road,
- (28) Improvements to Broach-Bhesli Road,
- (29) Improvements to Dungri-Untadi Road,

Central Circle.

- (30) Improving the Dehu-Alandi section of Shelarwadi-Dehu-Alandi Road,
- (31) Improvements to Poona-Paud-Mulshi Road,
- (32) Improvements to Poona-Sholapur Road : providing conphalt surface in miles -1/1 plus 480' to 1/3 plus 20',
- (33) Providing cement concrete surface on the Fitzgerald Bridge, Poona,
- (34) Modernizing mile 3.13 of the Poona-Satara section of Bombay-Poona-Bangalore Road,
- (35) Bombay-Poona-Sholapur-Hyderabad Road—reconstructing and substantially improving miles 5/1 to 35 of the Poona-Sholapur section,
- (36) Making improvements to low-lying miles 75-84 on Poona side of Khandala on the Khandala-Poona section of Bombay-Poona-Sholapur-Hyderabad Road,
- (37) Concreting miles 8/2 to 13 of Poona-Satara section of Poona-Bangalore Road,
- (38) Construction of a linked road connecting Karad-Tasgaon and Karad-Bijapur Roads,
- (39) Providing cement concerete surface on the portion from Karad Town to Karad Railway Station,
- (40) Reconstruction of the dangerous masonry works on the Karad-Chiplun section and improvements to drains Nos. 95 and 173 of Chiplun-Karad-Jath-Bijapur-Sindgi-Raic h u r Road,
- (41) Causeway over the Shegaon Nalla in mile 139/5 of the Malsiras-Pandharpur section,
- (42) Improvements to the road, earth work and the masonry works of the Velapur-Mahad section,
- (43) Crossing over the Girna River at Thengoda in mile No. 34 of the Satana-Chandor section,
- (44) Modernising low lying miles between Ghoti and Igatpuri of the Vihigaon-Nasik section of Bombay-Agra Road,
- (45) Crossing over the Mor river in mile No. 3/7 of Bhusawal-Yawal Road,
- (46) Crossing over the Anwar Nalla in the Dhulia-Jalgaon Road, section I,



Bridge No. 182 in mile 115/7 of the Karwar Bellary Road.

G. P. Z. P. 1941.

- (47) Causeway over the Kan river near Sakri in mile No. 32/5 of the Pimpalner-Sakri section of Nawapur-Borzar-Warsa-Pimpalner-Sakri Road,
- (48) Improvements to miles 18-45 and 46-83 of the Shirpur-Raver section of Burhanpur-Raver-Yawal-Chopda-Shirpur-Shahada-Taloda-Raisingpur Road,
- (49) Improvements to Dondaicha-Shahada-Khetia Road,
- (50) Extension from Edlabad to Ichhapur of Dhulia-Bhusawal-Edlabad-Nagpur Road,
- (51) Improvements to Nawapur-Chinchpada Road,

Deccan Irrigation Circle.

- (52) Constructing cross drainage works on Baramati-Sangvi Road,
- (53) Constructing an R. C. C. deck girder bridge over the Karha River near Saswad,
- (54) Constructing R. C. C. bridges over the various Nalas on Indapur-Nira Road,
- (55) Improvements to Indapur-Akluj-Sangola Road, section I,
- (56) Improvements to Indapur-Akluj-Sangola Road, section II,
- (57) Constructing a bridge over the river Nira at Sarati,
- (58) Constructing R. C. C. bridge of 6 spans over the nala in mile No. 30/5 of Nagar-Manmad Road,
- (59) Constructing R. C. C. deck girder bridge in mile No. 41/8 near Patoda on Pimpri-Jamkhed Road,
- (60) Modernising the surface with cement concrete slab in miles 3 to 4/3 of Poona-Khadakwasla Road,

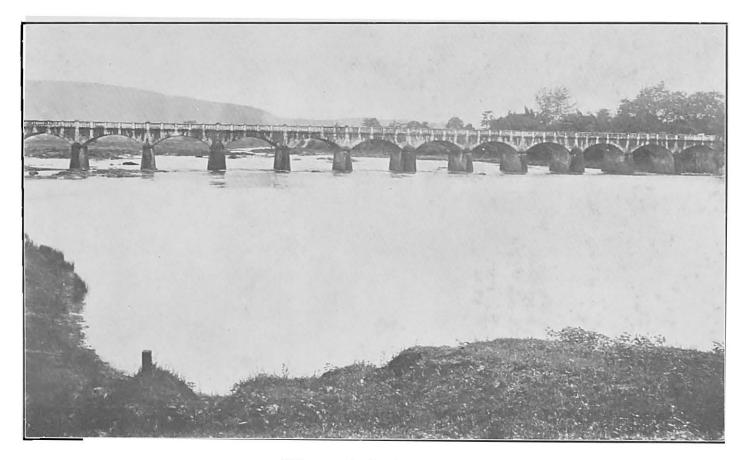
Southern Circle.

- (61) Improvements to the Sankeshwar-Kolhapur section of Poona-Bangalore Road,
- (62) Improvements to Bijapur-Kagwad Road, section II,
- (63) Improvements to the Dharwar-Saundatti section of Dharwar-Saundatti-Yergatti-Gokak-Sankeshwar Road,
- (64) Improvements to section from Badami to border of Dharwar District of Kamatgi-Gadag Road,
- (65) Improvements to the Hubli-Gadag section of Karwar-Bellary Road,

мо-н Bk T 7---3

- (66) Reconstructing bridge No. 182 in mile 115/7 of the Hubli-Annigeri section of Karwar-Bellary Road,
- (67) Constructing a bridge over the Kundalika River near Kolad in mile No. 26 of Dharamtar-Mahableshwar Road,
- (68) Constructing bridges over the Shastri and Sonvi Rivers on the Hatkhamba-Poladpur Road,
- (69) Constructing R. C. C. bridge over the Rajapur Creek at Rajapur in section II of Pali-Phonda Road,
- (70) Constructing a masonry bridge over the Piyali River in mile No. 4 of Kasarda-Janoli Road,
- (71) Diversion of the road outside Mahad Town and constructing

 a bridge over the Gandhari River in mile No. 55 of
 Dharamtar-Mahableshwar Road,
- (72) Improving the surface of Dharamtar-Mahableshwar Road, miles Nos. 1/3 to 62, part I, sections I to III,
- (73) Constructing bridges over the Vashisti River at Chiplun on Hatkhamba-Poladpur Road,
- (74) Improving miles Nos. 13 to 56 of Dharamtar-Mahableshwar Road,
- (75) Constructing masonry drains with R. C. C. slabs over 146 nallas on the Vadkal-Mahad and Mahad-Poladpur sections of Dharamtar-Mahableshwar Road,
- (76) Providing cross drainage works across seven big nallas on Malwan-Phonda Road,
- (77) Improving Khanapur-Yellapur Road, part I,
- (78) Improving Khanapur-Yellapur Road, part II,
- (79) Improving Yellapur-Sirsi Road, part I,
- (80) Improving Yellapur-Sirsi Road, part II,
- (81) Improving Sirsi-Kodkani Road,
- (82) Improvments to miles 0 to 71/5 of Kumta-Hubli Road,
- (83) Improving Karwar-Bhatkal-Madras-Frontier Road (Kumta-Honawar section),
- (84) Modernizing roads in and round about Karwar,
- (85) Reconstructing bridge No. 226-A in mile No. 27/4 o Karwar-Bellary Road,
- . (86) Reconstructing six cross drainage works on Karwar-Bellar. Road,



Bridge over the Kundalika River.

G. P. Z. P. 1941.

- (87) Diversion of Kumta-Hubli Road outside Sirsi Town,
- (88) Constructing a metalled road from Talikot to Salvadgi up to Nizam's Dominion, part I,
- (89) Improving Bijapur-Sindgi Road, section I,
- (90) Improving Bijapur-Sindgi Road, section II,
- (91) Improving Bijapur-Bagewadi Road,
- (92) Improving miles Nos. 0 to 6 of Kolhar-Talikot Road, section II,
- (93) Improving miles Nos. 7 to 18 of Kolhar-Talikot Road, section II,
- (94) Improving miles Nos. 1 to 30 of Kolhar-Talikot Road, section I,
- (95) Constructing a metalled road from Sindgi to British border via Yankanchi and Golgeri,
- (96) Reconditioning and asphalting Bijapur-Kagwad Road, mile No. 1 and Bijapur-Sindgi road, miles Nos. 1 and 2,
- . (97) Improving Nipani-Kaladgi Road,
 - (98) Improving Indi-Shirdhon Road, and
 - (99) Constructing a causeway over the Don Nalla near Talikot on Kolhar-Talikot Road, section II.
 - (iii) Expenditure from Provincial Road Fund.

The expenditure from the Provincial Road Fund during the year was Rs. 10,63,807 as against Rs. 5,97,275 in the previous year and Rs. 2,04,687 and Rs. 3,78,657 in the respective preceding years.

A statement giving the figures of expenditure on works and repairs under this head since the inception of the Fund to the end of the period under report is appended to this report as Appendix VIII.

The following important works financed from this Fund were either completed or in progress :---

- (1) Modernising Bombay-Poona Road with cement concrete surface (miles Nos. 25, 26, 27, 44 and 45),
- (2) Modernising Bombay-Poona Road with cement concrete surface (miles Nos. 30, 31, 42, 43, 53 and 54),
- (3) Constructing R. C. C. slab drain of two openings in mile No. 47/4 of Bombay-Agra Road,
- (4) Modernising miles Nos. 30 to 32/5 and 69 to 72 of Bombay-Agra Road,

- (5) Modernising miles Nos. 28, 29, 32/6 to 36 of Bombay-Nasik Road
- (6) Constructing a slab drain of 4 openings in mile No. 50/6 of Bombay-Agra Road,
- (7) Constructing an R. C. C. slab drain of 3 openings in mile No. 39/8 of Bombay-Agra Road,
- (8) Improvements to Rander approach of Hope Bridge at Surat,
- (9) Constructing a road from Godhra to Pali passing through Baroda State limits.
- (10) Modernising Bombay-Poona Road, ghat portion (miles Nos. 66/0 to $70/2^{1}_{2}$),
- (11) Modernising Bombay-Poona Road, miles Nos. 98/0 to 107/4 : providing cement concrete slab 5" thick.
- (12) Modernising portion from miles Nos. 94 to 98 of Bombay-Poona Road,
- (13) Modernising portion from miles Nos. 81/7 to 94 of Bombay-Poona Road,
- (14) Modernising low-lying miles Nos. 91 to 93/2 between Ghotā and Igatpuri on Vihigaon-Nasik section of Bombay-Agra Road,
- (15) Modernising portion from mile stone 80 to 84 (Thal Ghat) of Bombay-Agra Road
- (16) Realignment of Devi Ghat in mile No. 156 of Bombay-Agra Road, and
- (17) Constructing an R. C. C. bridge over nalla No. 248 in mile No. 131/3 of Bombay-Agra Road near Pimpalgaon Baswant.

Deposit Contribution Works.

| | | | | Rs. |
|---------|----|-----|----|------------|
| Works | •• | * * | | . 3,84,348 |
| Repairs | •• | * • | •- | 58,006 |
| | | | | - |
| | | | | 4,42,354 |
| | | | | |

The following were some of the important works in progress under this head :---

- (1) Extension of the pier at Rewas ;
- (2) Kurla Drainage Scheme ;

(3) Construction of a feeder channel to Gomti Tank at Dakor;

(4) Improvements to Chiplun Water Supply;

and

(5) Construction of a boat jetty and dharmashala at Musakaji.

Arboriculture.

Nurseries were maintained at various places and the planting, watering and protection of road-side trees continued to receive attention as in the previous year.

The number of trees maintained at the various places along the roads in charge of this Department was about 7,37,097.

Scarcity Works.

A sum of Rs. 1,14,498 was spent on scarcity labour during the year and the average number of persons attending scarcity works in the Kaira and Panch Mahals Division alone was 1,39,700 per month. The works of constructing about 27 miles of Viramgam-Sitapur Road in the Ahmedabad Division and the road from Tuwa to Bordi in the Kaira and Panch Mahals Division and collecting metal on the quarries of Ghodra-Shehra Road, Godhra-Salia Road and road from Orwada via Morwa to Sant Frontier were some of the important works under this head.

D-MISCELLANEOUS.

Public Health, Water Supply and Drainage Works, etc.

The important works completed during the year under this head were the following :--

- (1) providing new 6" and 4" C. I. mains to the north-east of Jogeshwari, and
- (2) providing and laying a new 6" water supply main for Ghatkopar from the 48" Tansa main to the existing 5" main on Bombay-Agra Road.

In addition to the above, some important works such as (a) construction of a tank at Kharoda in the Dohad Taluka to provide a storage of water for domestic purposes for the villagers, (b) sinking a 6" diameter bore 800" deep at Limda Talao and also at Dhandhuka, were in progress under the Village Water Supply Scheme. Survey works for investigation of village water supply schemes in Gujarat Zone were also carried out.

The total revenue realized from the sale of water, premia and connection fees, etc., in connection with the Salsette Water Supply Scheme amounted to Rs. 6,89,680 for the year. The maintenance and repairs of (1) Poona Water Works, (2) the Ambernath Water Works, (3) the Alandi Water Works, (4) the Matheran Water Works and (5) the Poona Sewage Pumping Station at Bahiroba were all under the control of the Consulting Public Health Engineer to Government, Poona.

The expenditure under the head "70-Capital Outlay on Improvements to Public Health", inclusive of the 10th instalment of Rs. 25,000 to the Military authorities for the purchase of the Kirkee Water Works, amounted to Rs. 33,351.

The work of providing a complete scheme of sewerage in the whole of the Koregaon Park area was taken up and nearly completed. The total length of sewers of 18", 15", 12", 9" and 6" diameters, laid is 14,796 running feet.

The following works were maintained as usual :---

- (1) Poona Cantonment Water Works,
- (2) Kirkee Water Supply including Holkar's Bridge Water Works and Pashan Water Works,
- (3) Public Health Laboratory in Poona Water Works,
- (4) Hedges of Mutha Right Bank Canal up to mile No. 101,
- (5) Ambernath Water Works,
- (6) Bahiroba Sewage Pumping Station, and
- (7) "V" shaped drain in Koregaon area and Jamsetjee Bund.

18 pumping plants of water works were inspected and tested by the Mechanical Section and advice given where necessary.

E-TECHNICAL PAPERS.

No new technical paper was issued in the year.

F-RAILWAYS.

The railways situated within the Province of Bombay are not administered by this Government but are under the general control of the Railway Board.

No new traffic surveys of any railway projects were carried out during the year under review, nor were any new lines of railway opened for traffic.

The total length of the railways in the Province of Bombay excluding Indian States but including Indian States Railway lines within the

| | Broad gauge miles. | Metre gauge miles. | Narrow gauge miles. | Total No. of miles. |
|--|--------------------------|--------------------------|---------------------------|---------------------------|
| Bomhay, Baroda and Central India Railway. | 531·253 | 120.909 | 142.809 | 794 • 971 |
| Great Indian Peninsula Railway. | 822 • 321 | •••• | 62·064 | 884·385 |
| Madras and Southern Mahratta Railway. | •••• | 587·875 | | 587 · 8 75 |
| Barsi Light Railway | •••• | | 113.000 | 113.000 |
| Matheran Light Railway | | | 12.610 | $12 \cdot 610$ |
| Bhavnagar State Railway | •••• | 48 ·970 | 8.440 | 57·410 |
| Gaekwar's Baroda State Railway. | 9.970 | 35.080 | 24.140 | 69.190 |
| - | 1363 • 544 | 792.834 | 363.063 | 2519•441 |

British Territory open for traffic during the year under review was 2519 441 miles made up of as under :---

| G-DEVELOPMENT | SCHEMES. |
|---------------|----------|
|---------------|----------|

The following important works under this head were carried out :--

- constructing Marine Drive to its full width from plot No. 86 to Chowpatty complete with drains, all concrete roads, central hedging and gas lighting, in Block No. I;
- (2) constructing Marine Drive to its full width from Plot No. 86 to plot No. 207 complete with drains and lighting arrangements in Blocks Nos. I and II;
- (3) constructing 40' carriageway of 120' road along storm water drain No. 6 between Blocks Nos. II and III from Marine Drive to Queen's Road Band Stand;
- (4) constructing 50' wide road at the north end of the Lloyd Recreation Ground in Block No. I, Back Bay Reclamation Scheme;
- (5) planting Royal Palms along the west footpath of the Marine Drive from Chowpatty to end of Block No. II;
- (6) removing the existing vent shafts and refixing them to the nearest buildings in the Back Bay Reclamation Area;
- (7) providing cement concrete footpaths along certain roads in Blocks Nos. I and II;

- (8) providing three traffic roundabouts at the junction of certain roads in Block No. II;
- (9) sanitary and anti-malarial works; and
- (10) maintenance of the New Sea Wall and rubble mound.

Certain minor works such as surveys and layout of roads in Suburban Schemes, filling in low plots in Suburban Scheme No.'3, Chembur, Suburban Scheme No. 7-Khar, Suburban Scheme No. 16, Shahar (Andheri sector) and Suburban Scheme No. 17, Central Salsette Tramway at Kurla, and construction of small extensions of roads were carried out during the year. The roads and buildings in the Suburban Schemes pertaining to the late Development Department were also properly maintained by this Department.

A list of members of the Standing Advisory Committee for the Back Bay Reclamation Scheme will be found in Appendix X to this report.

Industrial Housing Scheme.

The works of providing (1) pipes in the rooms for drying clothes, (2) iron bars to windows in all the remaining chawls, and (3) cement washing the chawls from outside, all in the Development Department Chawls at Worli, were carried out during the year.

All the Development Department Chawls at Naigaum, DeLisle Road, Worli and Sewri were properly maintained at a cost of Rs. 1,32,181. These chawls are under the control of this Department since December 1937 and a detailed report of the administration of these chawls for the period under review has been published separately.

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APPENDIX I.

| | Original Works. | | Repairs. | | Total. | |
|---|-----------------|------------------|---------------|-------------|--------------------|-----------------------|
| Service Heads. | Grants. | Outlay. | Grants. | Outlay. | Grants. | Outlay. |
| 50-Civil Works- Central Suspense- Voled, | Rs. | Rs. | Rs. | Rs. | Rs. | . Rø. |
| 50—Civil Works— Provincial. | | | | | | |
| Buildings-Charged | 34,000 | 31,810 | 2,00,800 | 1,99,393 | 2,34,800 | 2,31,209 |
| Buildings—Authorised | 8,20,533 | 7,93,867 | Ŋ | [10,38,192 | 1 | 18,32,059 |
| Communications | 24,36,516 | (4) 23,42,892 | \$40,51,957 | 29,41,148 | 73,10,892 | 52,84,040 |
| Miscellaneous | 1,886 | 2,130 |) | 45,355 | J | 47,485 |
| Establishment charged | 8-4 9-4 | ** ** | **** | a-10 7-0 | *3,99,007 | 2,86,088 |
| Establishment— A u - thorised | | | •••••• | £+ 5+ | •19,89,837 | 14,37,392 |
| Tools and Plant— Authorised | | | | ** ** | •2,13, ` 17 | 1,92,908 |
| Grants-in-aid-Charged. | | | **** | | 2,380 | 2,367 |
| Grants-in-aid—Autho- rised | - | | H- 14 | 4-4 B-8 | 8,37,873 | † 8,85,385 |
| Suspense | | | 11.04 | | 41,217 | 997 |
| Charges in England | | | | | • | |
| Establishment Charged | ** ** | | 8-4 9-9 | | 50,220 | 60,153 |
| Establis h m e n t Authorised | | a.u t-4 | | ÷-1 + 3 | 5,320 | 5,613 |
| Loss and gain by exchange— | | | , | | | |
| Establis h m e n t- Charged | | p.q. 8-4 | + 1 +4 | •••• | · 48 | 87 |
| Establishment | | ş.a 5.a | 14 14 · | | 7 | 11 |
| Total, 50-Civil Works- rovincial. | 32,92,935 | 81,70,705 | 42,52,757 | 42,24,088 | 1,10,84,918 | 1,02,06,444 |
| 81—Capital Account of Civil Works—Outvide the Revenue Account | | | | | - F0 010 | E 18 819 |
| Buildings | . 5,53,610 | 5,46,643 | 8-6 9-4 | | 5,53,610 | 5,46,643 |
| Establishment—Char- ged | 1 111 | | ** ** | | | 16,991 |
| Establishment — Au- thorised | | \$11 \$4 | **** | | | 49,986 |
| Tools and Plant | ** ** | 6-4 T-6 | | | | 4,739 |
| Fotal, 81-Capitai Account of Civil Works | 5,53,610 | 5,46,643 | | | 5,53,610 | 6,18,309 |

Statement showing expenditure on civil works during the year 1940-41.

(a) Includes Rs. 18,56,198 on account of Central Road Fund.
 Grant for all P. W. Heads.
 † Includes Rs. 1,17,612 on account of Central Road Fund.

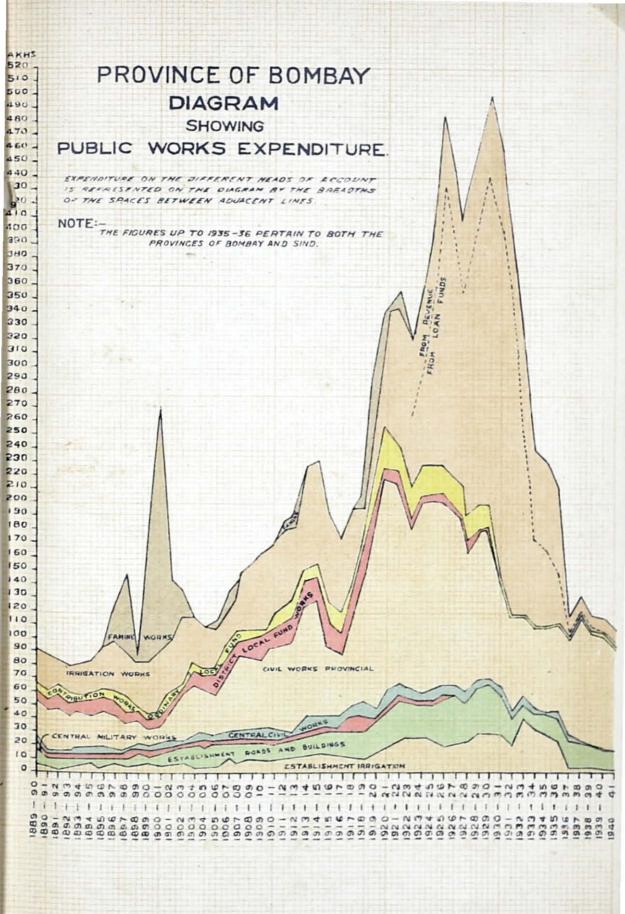
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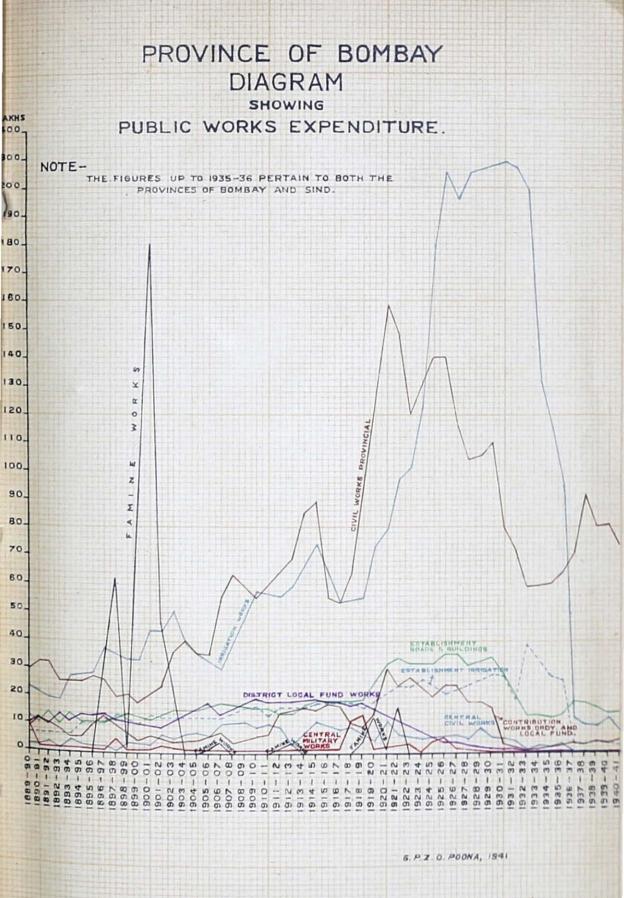
| | Original Works. | | Repairs. | | Total, | |
|---|-----------------|-----------|-----------|-----------|----------------|------------------|
| Service Heads. | Grants. | Outlay. | Grants. | Outlay. | Grants. | Outlay. |
| | Rs. | Rs, | Rs. | Rs. | Rs. | Rs. |
| - ·· · | | | · •••• } | •••• | | •••• |
| Brought over | | ···· | | ···· | | ···· |
| 81-Capital Account of Civil Works-Outside the Revenue Account contd. | | | | | | I |
| Provincial Road Fund. | | •••• | [| •••• | 10,72,688 | *10,63,80 |
| District Local Fund | | •••• | | •••• | 6-7 6-6 | •••• |
| Deposit contribution . | •••• | 1 1 64 | •••• | •••• | . | †5,36,1 8 |
| Grand Total | 38,46,585 | 87,17,348 | 42,52,757 | 42,24,088 | 1,27,11,216 | 1,24,24,4 |

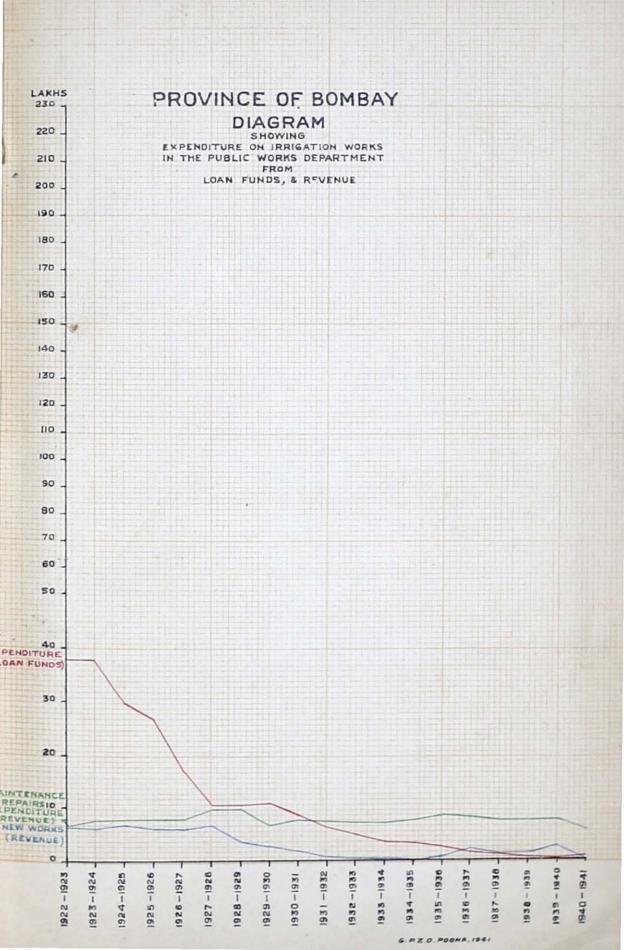
* Inclusive of Rs. 3,766 for special Tools and Plant and Rs. 2,26,162 for establishment a Tools and Plant.

† Inclusive of Rs. 93,829 on account of establishment Tools and Plant and audit and accounts.

26







APPENDIX II.

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| Name of Circle. | Name of Division. | Length of metalled roads main- tained by the Public Works De- partment. | Length of unmotalled roads main- tained by- the Public Works De- partment. | Length of metalled roads main- tained by the Local Boards. |
|-------------------|---|---|--|---|
| 1 | 2 | 3 | 4 | 5 |
| | · · | Miles. | Miles. | Milcs. |
| Northern Circel | Thana | 471 · 99 245 · 21 | 2.17 | 439-66 165-96 |
| | Kaira and Panch Mahals . Ahmedabad . | $340.62 \\ 179.91$ | 13·76 53·60 | 107·09 67·98 |
| | Total | 1,237.73 | 69.53 | 780-69 |
| Central Circle | | 358.89 | 16.63 | 284.53 |
| l | Satara | | 39.87 | 335 62 |
| | Sholapur | | 37.72 | 171-25 |
| | Khandesh | 457·76 695·38 | 5-30 | 190-79 312-48 |
| | Total | 2,283 · 72 | 99.52 | 1,294 • 67 |
| Deccan Irrigation | Ahmednagar | 264.9 | 57.60 | 556.30 |
| Circle. | Nira Canals | 192.4 | | 000.90 |
| | Nasik Irrigation | 47.00 | | |
| | Poona Irrigation and Research. | 8.02 | •••• | ` ···· |
| | Total | ·512·80 | 57·60 | 556-30 |
| Southern Circle | | 462.94 | | 310-21 |
| | Dharwar Bijapur | 460.62 | 12.13 | 290.06 |
| | Kanara | | 40.73 | 220.57 |
| | Ratnagiri . | | 105.72 | 95.26 |
| | | 483.36 | 6.75 | 480.41 |
| | Total . | 2,239.09 | 165.33 | 1,396.81 |
| | Grand Total | 6,273 • 34 | . 391.98 | 4,028.47 |
| | Grand Total of the previous year. | 6,193 • 17 | 419.30 | 3,947.83 |

Statement showing lengths of metalled and unmetalled Local Boards in the Province of

| 4 | | | Rema | rks. |
|---|---------------------------------------|---|---|---|
| Length of unmetalled roads naintained by the Local Boards. | Total length of metalled roads. | Total length of unmetalled roads. | Metalled roads main- tained by the Public Works Department in Municipal limits. | Unmetalled roads main- tained by the Public Works Department in Municipal ljmits. |
| 6 | . 7 | 8 | 9 | 10 |
| | | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Miles. | Miles. | Miles. | Miles. | Miles. |
| 241.81 | 911·65 | 241.81 | · · 26·73 | |
| 550.90 | 411.17 | 553·07 | 1.96 | |
| 00.10 | · /////71 | 95.94 | 17.85 | · · · · · |
| 82·18 284·59 | 247.89 | 338·19 | | •••• |
| 1,159-48 | 2,018 • 42 | . 1,229.01 | 46•54 | |
| 1 505.51 | 643.42 | 1,612.14 | 37.51 | |
| 1,595 51 | 794.48 | 1.461 . 12 | 25.27 | 1.31 |
| 1,421 25 540 34 | 484.08 | 578.06 | 32-83 | |
| 1,648.91 | 648.55 | 1,648.91 | 21.31 | |
| 393.44 | 1,007.86 | 398.74 | 30.33 | 1.28 |
| 5,599 45 | 3,578-39 | 5,698.97 | 147 • 25 | 2.59 |
| <u> </u> | 821.20 | ` 410 .20 | 6.30 | |
| 352-90 | 192·40 | 1 10 00 | | |
| | 47.00 | | 4.60 | |
| •••• | 8.50 | • • • • | •••• | |
| 352•90 | 1,069 • 10 | 410.50 | 10.80 | · · · · · · · · · |
| · · · · · · · · · · · · · · · · · · · | 25 | 407.61 | 14·8I | |
| 407.61 | 773.15 | 371.48 | 25.20 | |
| 359.35 | 750 · 68 586 · 28 | 235.88 | 10.57 | |
| 195-15 | 562.02 | 651-86 | . 22.21 | 0.75 |
| $546 \cdot 14$ 1,062 \cdot 25 | 963·77 | 1,069.00 | 17.36 | •••• |
| , 2,570.50 | 3,635.90 | 2,735.83 | | 0.75 |
| 9,682.33 | 10,301.81 | 10,074 · 31 | 294.84 | 3.34 |
| 10,201 • 29 | 10,141.00 | 10,620-59 | 288.06 | 8-92 |

•

roads maintained by the Public Works Department and the Bombay during the year 1940-41.

II.

Mileage of surfaced roads of various classes and

| | | | | | | | | | Wat | er bound |
|--------------------------|-----------|-------|-------|-----|------------------|---------------------------|----------|----------|-----------|-----------------|
| Province | or State | • | | | St | one metal o | mly. | | • | Kunkar brici |
| 1 | 1 | | | | | 2 | | | | |
| | ···· · | | | ļ | P. W. D. | Local. | Tot | sl. | P. | w. D. |
| . Bombo | ay. | | | | Miles. | Miles | MI | les. | 3 | Liles. |
| Northern Circle | • | •• | | •• | 1,079-09 | 2 748 | .97 1, | 827-99 | | 45' 3 |
| Central Circle | • | •• | | •• | 2, 302+00 | 1,147 | • 89 8,4 | 449-95 | | 2317 |
| Southern Circle . | • | | | [| 1,830-74 | 998 | | 828-74 | | 439.3 |
| Deccan Irrigation Circle | , | •• | | | 721 • 44 | 8 833 | · 42 1, | 054.90 | | •••• |
| ·. | | | Total | | 5,933-3 | 0 8,22 | 3·28 9, | 161 - 58 | | 508•3 |
| Province | or State. | | | | | n, asphalt, routed mac | | Pre | mix | bitume tar (|
| | 1 | | | | | 6 | | | | 7 |
| | | | | _ | P. W. D. | Local. | Total. | P. W. | D. | Local. |
| Bon | ıbay. | | | | Miles. | Miles. | Miles. | Mile | 8. \ | Miles. |
| Northern Circle | ••• | •• | | •• | 15.12 | 6, 09 | 21•21 | 91 | L•19 | •• |
| Central Circle | •• | •• | | •• | 16.71 | •• | 16.71 | 50 |)• 88 | •• |
| Southern Circle | •• | · • • | | ••• | 7.02 | •• | 7.05 | 3(| 0-27 | •• |
| Deccan Irrigation Circ | le | •• | | ••• | | | | , | 8.57 | 8-6 |

38-88

6-09

44 97

178.41

3-63

Total ..

| | 1.6. |
|----------|------|
| . | |

.

motorable earth roads as on 31st March 1941.

| terite or | | | • • | _ | | | |
|-----------|----------|------------------|--------------------------------|---------------------|----------|---------------------------------|-------------|
| etal. | | Other (murom, | low type sur gravel, sand : | faces and clay). | | e treated wit sphalt or bitu | |
| | | | 4 | | | 5 | |
| Local. | Total. | P. W. D. | Local, | Total. | P. W. D. | Local. | Total, |
| Milcs. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. |
| 170.89 | 216-20 | 10-05 | 831·51 | 841 - 5,6 | 81.50 | 0-75 | 82.2 |
| | 23.72 | 102.85 | 1,611 . 77 | 1,714.62 | 11-21 | •••• | 11.2 |
| 898-81 | 838-16 | 155-21 | 1,927.62 | 2,079-83 | 14-20 | • • • • • | 14.2 |
| •••• | •••• | 58 7 2) | 352 . 93 | 411.65 | 7 02 | | 7.0 |
| 569*70 | 1,078.08 | 58·72 | 352 · 93 | 411.65 | 7·02 | 0. 22 | 2 64 |

| asphalt, pitch. | • • • • | ent concre macadam | | | weather mo earth Ioadi | | which | r motorable cannot be c previous he | lassified |
|--------------------|---------|-----------------------|----------------|--------|---------------------------|----------|--------|---|-----------|
| | · · | 8 | | | 9 | | | 10 | |
| Total. | P.W.D. | Local. | Total. | ₽.₩.D. | Local. | Total. | P.W.D. | Local. | Total. |
| Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles, | Miles. | Miles. | Miles. |
| 91·19 | 15-81 | 0-12 | 15-93 | 28.00 | 623.37 | 651 • 37 | | | |
| 50°38 | 26.17 | | 2 6 ·17 | | 42 • 91 | 42.01 | •• | 1,022 • 91 | 1,022.91 |
| 30-27 | | | | 18.50 | 571·76 | 590-26 | | 192.37 | 192-37 |
| 10-20 | 2-38 | | 2.38 | | | | | | |
| | · | / | { | | | | | | |
| 182 04 | 44-86 | 0.15 | 44.48 | 46-50 | 1,238-04 | 1,284.54 | •• | 1,215-28 | 1,215.28 |

APPENDIX -

Statement showing the expenditure on Provincial Buildings and

| 1924 | -24 | 1923 | -23 | 1922 | -22 | 1921- | |
|---------------------|-----------|------------------------|-----------|------------------------|------------|-----------------------|--|
| 50–C.W Provincia | 81-C.W. | 50-C.W. Provincial. | 81-C.₩. | 50-C.W. Provincial. | 81-C.₩. | 50Ċ.W. Provincial. | <u> </u> |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Rs . | Bs. | Rs. | Rs, | Rs. | Rs. | Rs. | |
| 11,72,87 | 46,74,102 | 12,74,148 | 21,38,237 | 18,40,250 | ** | HO 18 (89 | (i) Expenditure on buildings for original works |
| 14,69,217 | | 15,99,041 | | 18,79,087 | - | 11 00 000 | (ii) Expenditure on buildings for maintenance |
| 5,36,719 | 4,54,014 | 10,92,068 | 6,94,035 | 15,22,488 | | 19,39,046 | (iii) Expenditure on metalled Provin- cial roads for original works |
| 63,591 | 20,943 | 72,046 | 20,903 | 97,110 | 1 4 | | unmetalled Pro- vincial roads for original works |
| 27,73,938 | | 26,69,387 | | 24,27,684 | | | (v) Expenditure on metalled Provin- cial roads for maintenance |
| 2,81,022 | | 2,83,378 | | 2,35,632 | | -} | (vi) Expenditure or unmetalled Pro vincial roads for maintenance |

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IV.

| Roads in the Province of Bombay from | 1921–22 to 1940–41. |
|--------------------------------------|---------------------|
|--------------------------------------|---------------------|

| 25 | 1925 | -28 | 1926 | 3-27 · | 192 | 7-28 | 1928 | 3-29 |
|-----------|------------------------|------------|------------------------|-----------|------------------------|-----------|------------------------|------------------|
| 81-C.₩. | 50-C.W. Provincial. | 81-C.₩. | 50-C.W. Provincial. | 81-C.W. | 50-C.W. Provincial. | 81-C.W. | 50-C.W. Provincial. | 81-C.W |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Rs. | Ba, | Rs. | Rs. | Rs. | Rs. | Rs, | Rs. | [.] Rs. |
| 86,09,799 | 12,24,807 | \$8,98,209 | 22,22,421 | 17,71,645 | 9,72,027 | 13,90,972 | 9,61,174 | 19,07,442 |
| •• | 15,22,903 | . | 15,95,217 | ** | 17,04,033 | | 16,43,248 | ** |
| 24,18,810 | 8,30,136 | 11,41,309 | 11,19,552 | 4,09,201 | 7,95,102 | 6,26,052 | 7,40,068 | 5,42,195 |
| 1,14,266 | 1,36,210 | 33,048 | 2,50,893 | · | 1,65,007 | | 1,05,960 | ** |
| •• | 28,80,514 | | 30,98,522 | | 82,12,827 | | 30,99,797 | |
| •• | 2,53,438 | | 2,55,920 | | 2,82,958 | - | 2,67,776 | •• |

| | 1920 | -30 | 193(|)-31 |
|--|------------------------|-----------|------------------------|----------|
| · · · | 50-C.W. Provincial, | 81-C.W. | 50-C.W. Provincial. | 81-C.W. |
| 1 | 18 | 19 | 20 | 21 |
| | Rs. | Rs. | Rs. | Bs. |
| (i) Expenditure on buildings for original works | 8,88,923 | 22,83,762 | 7,15,423 | 4,82,192 |
| (ii) Expenditure on buildings for maintenance | 15,91,742 | | 15,54,193 | •••• |
| (iii) Expenditure on metalled Provin- cial roads for original works | - 5,81,922 | 5,41,635 | 8,07,467 | 4,85,007 |
| (iv) Expenditure on unmetalled Pro- vincial roads for original works | 1,11,174 | •••• | 81,815 | •••• |
| (v) Expenditure on metalled Provin- cial roads for maintenance | 80,95,981 | | 29,37,136 | •••• |
| (01) Expenditure on unmetalled Provincial roads for maintenance . | 2,54,990 | | 2,98,830 | |
| (vii) Expenditure from Road Deve- lopment Fund in connection with Provincial roads for original works | •••• | | 8,00,076 | |
| (riii) Expenditure from Road Deve- lopment Fund in connection with Provincial roads for maintenance . | •••• | •••• | •••• | |

IV--contd.

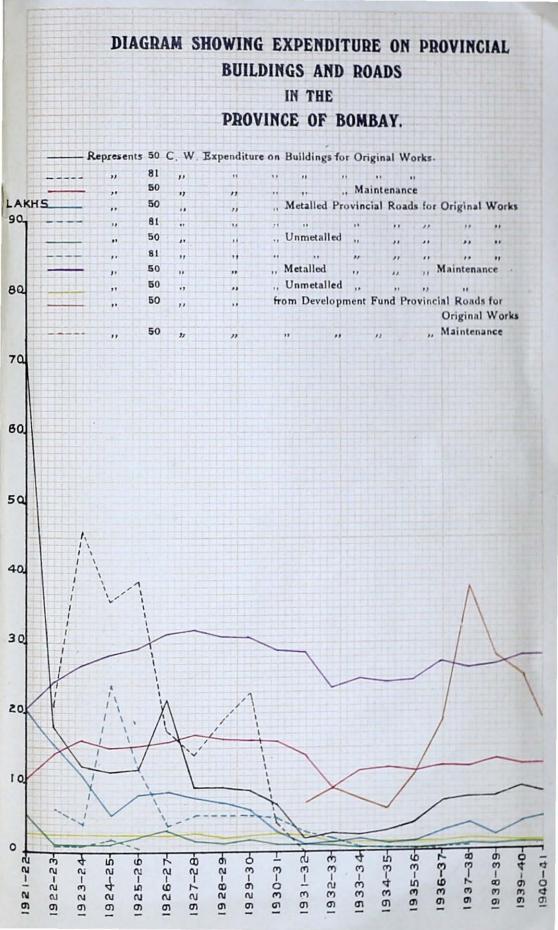
| 1931 | -32 | 1932 | -33 | 1938- | -34 |
|------------------------|----------|------------------------|------------------------|------------------------|---------|
| 50-C.W. Provincial. | 81-0.W. | 50-C.W. Provincial. | 81-C.W. | 50-C.W. Provincial. | 81-C.W. |
| 22 | 23 | 24 | 25 | 26 | 27 |
| Rs. | Rs. | Ba. | Rs. | Ba. | Rs. |
| 2,88,811 | 20,897 | 2,51,734 | 1,889 | 2,46,786 | 11,002 |
| 18,78,726 | •••• | 0,88,704 | | 11,83,317 | •••• |
| 1,39,416 | 2,91,805 | 1,26,240 | 1,55, 5 54 - | 1,17,268 | 51,711 |
| 29,564 | | 23,447 | •••• | 23,622 | |
| 28,68,480 | •••• | 23,36,968 | · | 24,82,335 | •••• |
| 2,30,071 | •••• | 1,61,682 | | 1,60,738 | • |
| 7;35 <u>;</u> 418 | | 9,06,785 | | 8,08,461 | •••• |
| | | 13,078 | •••• | 26,253 | |

| 193 | 5-36 | 193 | 5. | 1934-8 | |
|----------------------|-------------|------------------------|---------|------------------------|--|
| 50-C.W. Provincia | 81-C.W. | 50-C.W. Provincial. | 81-C.W. | 50-C.W. Provincial. | · |
| 32 | 81 | 80 | 29 | 28 | 1 |
| Rs. | Rs. | | Rs. | Bs, | |
| 7,27,341 | ı | 4,31,114 | •• | 8,19,300 | (*) Expenditure on buildings for original works |
| 12,69,204 | •••• | 11,94,726 | •• | 12,07,928 | (ii) Expenditure on buildings for maintenance |
| 2,39,854 | 2,405 | 1,45,887 | 23,462 | 1,13,558 | (iii) Expenditure on metalled Provin- cial roads for original works |
| 28,464 | • | 4,620 | •• | 7,724 | (iv) Expenditure on unmetalled Pro- vincial roads for original work² |
| 27,00,519 | •••• | 24,60,631 | | 24,45,526 | (v) Expenditure on metalled Provin- cial roads for maintenance |
| 1,60,055 | •••• | 1,66,294 | , | 1,50,635 | vi) Expenditure on unmetalled Pro- vincial roads for maintenance |
| 19,28,778 | - - - | 11,69,200 | •- | 6,77,174 | (rii) Expenditure from Road Develop- ment Fund in connection with Provincial roads for original works |
| 44,726 | | 16,500 | •• | 44,383 | (tiii) Expenditure from Road Deve- lopmont Fund in connection with Provincial roads for maintenance. |

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IV--concld.

| 7. | 1987-38. | | 1938-39. | | 1939-40. | | 1940-41. | |
|---------|------------------------|---------|------------------------|------------------|------------------------|---------|------------------------|----------|
| 81-C.W. | 50-C.W. Provincial. | 81-C.W. | 50-C.W. Provincial. | 81-0 . W. | 50-C.W. Provincial. | 81-C.₩. | 50-C.W. Provincial. | 81-0.W. |
| 83 | 34 | .85 | 36 | 87 | 88 | 89 | 40 | 41 |
| Rs. | Rs. | Bs. | Bs. | B9. | Rs. | Rs. | Rs. | Be. |
| •• | 7,58,948 | | 7,62,413 | | 9,45,822 | | 8,25,683 | 5,46,643 |
| •• | 12,41,971 | | 13,23,873 | | 12,23,386 | •• | 12,37,585 | •• |
| 1,986 | 3,38,538 | 2,984 | 2,26,942 | | 8,99,844 | | 4,34,140 | •• |
| •• | 91,464 | •• | 88,476 | | 54,242 | | , 52,554 | •• |
| •• | 20,39,980 | •• | 26,85,001 | | 27,90,597 | •• . | 27,95,350 | •• |
| •• | 1,79,681 | •• | 1,71,438 | | 1,51,475 | | 1,45,798 | •• |
| | 37,90,835 | | 27,75,464 | | 25,38,52 7 | | 18,56,198 | •• |
| •• | 89,057 | •• | **** | •• | •• | •• | • | •• |



APPENDIX V

| · · · · | 1921–22. | 1922–2 3 . | 1923–24. | 1924-25. |
|---|----------|-------------------|----------|----------|
| 1 | 2 | 3 | 4 | ¥ 5 |
| | Rs. | Rs. | Rs. | Rs. |
| Expenditure on metalled District Local Board roads for original works in the Province of Bombay (2) Expenditure on unmetalled District Local Board roads for | 1,80,641 | 2,11,788 | 2,45,635 | 1,85,618 |
| original works in the Province of Bombay | 1,60,724 | , 94,250 | 1,28,734 | 1,17,791 |
| (3) Expenditure on metalled District Local Board roads for maintenance in the Province of Bombay | 4,51,946 | 5,68,794 | 5,44,584 | 5,68,349 |
| maintenance in the Province of Bombay | | 4,55,687 | 5,30,217 | 4,92,900 |

Statement showing the expenditure on District Local Board Roads in the 1921-22

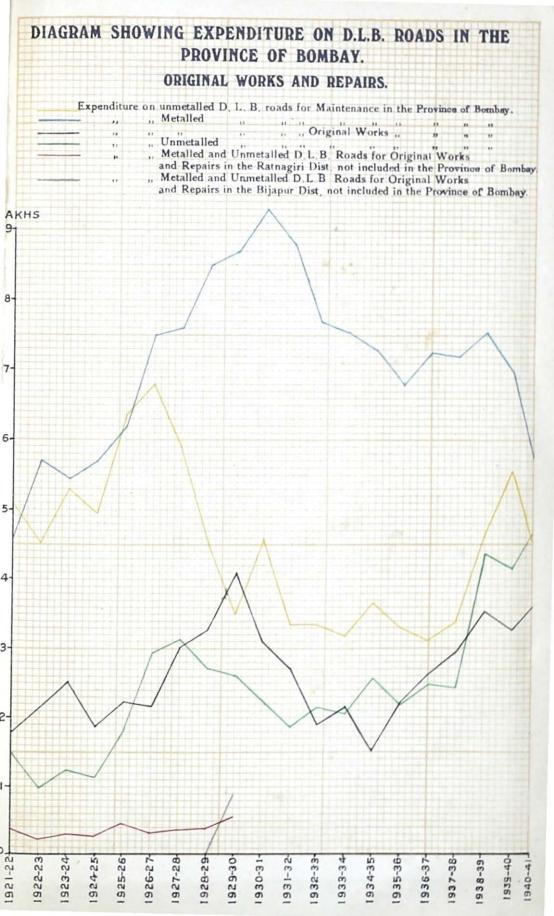
| | | · · · · · · · · · · · · · · · · · · · | | |
|---|----------|---------------------------------------|----------|----------|
| | 1931–32. | 1932–33. | 1933-34. | 1934–35. |
| . 1 | 12 | 13 | 14 | 15 |
| | Rs. | Rs. | Rs. | Rs. |
| Expenditure on metalled District Local Board roads for original works in the Province of Bombay | 2,69,334 | 1,92,344 | 2,16,078 | 1,52,374 |
| original works in the Province of Bombay | 1,86,361 | 2,13,520 | 2,06,288 | 2,57,209 |
| (3) Expenditure on metalled District Local Board roads for maintenance in the Province of Bombay (4) Expenditure on unmetalled | 8,81,092 | 7,66,140 | 7,53,558 | 7,27,755 |
| (4) Expenditure on unmetalled District Local Board roads for maintenance in the Province of Bombay | | 3,36,929 | 3,17,477 | 3,63,204 |

| | | | | | · |
|-------------------------------|----------|-----------------------|-------------------|-------------------|---------------------|
| 192526. | 1926-27. | 192728. | 1928– 29 . | ′1929–30 . | 1930-31. |
| .6 | 7 | 8 | 9 | 10 | 11 |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 2, 22, 0 85 | 2,14,017 | 2,9 8,423 - | 3,29,532 | 4,11,234 | 3,07,573 |
| 1,78,703 | 2,97,654 | 3,18,374 | 2,72,491 | 2,62,2 60 | 2,28,956 |
| 6,21,726 | 7,48,360 | 7,59,703 | 8,51,468 | 8,73,140 | · 9,3 1,6 51 |
| 6,36,110 | 6,79,365 | 5,91,524 | 4,57,202 | 3,51,071 | 4,62,352 |
| 1935-36. | 1936-37. | 1937-38. | 1938–3 9 . | 1939 -40 . | 1940-41. |
| 16 | 17 | 18 | 19 | 20 · | 21 |
| Rs. | Rs. | Rs. | Bs. | Rs. | Bs. |
| 2,21,560 | 2,62,065 | 2,95,980 | 3,53,644 | 3,24,932 | 3,60,399 |
| 2,18,755 | 2,48,945 | 2,44,517 | 4,35,306 | 4,15,804 | 4,06,939 |
| _ | 1 | | | | |
| 6,78,079 | 7,28,847 | 7,23,461 | 7,56,847 | 6,97,431 | 5,74,890 |

Province of Bombay (original works and repairs) from to 1940-41.

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APPENDIX VI

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| | | ┝ | | Expenditure | on Establishmen |
|---------|------|-----|----------------------------------|-------------------|-------------------------------|
| Ycar. | | | 50—Civil Works— Provincial | 81—Civil Works | 50—Civil Works— Central |
| | 1 | | 2 | 3 | 4 |
| | | | Rs. | Rs. | Rs. |
| 921-22 | •• | •• | 29,06,955 | •••• | 1,98,683 |
| 922-23 | •• | ••• | 20,14,640 | 8,34,450 | 1,78,163 |
| 923-24 | ••• | •• | 15,84,488 | 8,10,645 | . 67,892 |
| 192425 | •• | •• | 16,89,892 | 12,25,632 | 1,19,721 |
| 1925-26 | •• | | 18,89,417 | 12,05,078 | 1,01,876 |
| 1926-27 | •• | | 25,30,286 | 5,97,486 | 1,68,896 |
| 1927–28 | •• | •• | 21,99,448 | 5,59,107 | 1,49,132 |
| 928-29 | •• | | 22,40,393 | 6,56,713 | 2,29,540 |
| 1929-30 | •• | | 22,45,450 | 7,33,867 | 1,56,773 |
| 1930–31 | •• | | 25,51,711 | 1,80,139 | 1,72,163 |
| 931-32 | •• | •• | 25,93,104 | 2,32,929 | 1,22,799 |
| 1932–33 | •• | • • | 23,74,603 | 71,981 | 85,143 |
| 1933-34 | •• | | 22,73,945 | 31,807 | 71,866 |
| 1934-35 | •• | | 21,88,729 | 38,278 | 62,472 |
| 1935-36 | •• |] | 20,51,807 | 808 | 89,984 |
| 1936-37 | •• |] | 23,14,593 | 619 | 61,859 |
| 1937–38 | •• | | 22,61,828 | 699 | 58,352 |
| 1938–39 | •• | | 20,85,355 | 000 | |
| 1939-40 | •• | • • | 19,38,566 | | 10,113 17,245 |
| 1940-41 | • •• | ••• | 17,79,944 | 66,927 | |

Statement showing expenditure on establishment in the Roads and Buildings and the percentage on the total outlay on works and

*Represents the difference between the Establishment charges debited on the basis under

| 8—Mili- tary Works | Deposit Works | Total Establish- ment charges | Percentage on the total outlay on works and repairs in the Roads and Build- ings Branch |
|--------------------------|------------------|--|--|
| 5 | 6 | 7 | 8 |
| Rs. | Rs. | Rs. | |
| 45,258 | 2,84,992 | 34,35,888 | 19-26 |
| 71,481 | 77,143 | 31,75,877 | 20.79 |
| 38,560 | 6,88,354 | 31,89,939 | 19-88 |
| 27,862 | 2,52,556 | 33,15,663 | 19.67 |
| 69,049 | 2,58,535 | 35,23,955 | 20.66 |
| 5,882 | 3,94,389 | 36,96,939 | 23.76 |
| 5,042 | 2,97,270 | 32,09,999 | 24.96 |
| 2,240 | 2,56,180 | 33,85,066 | 25·03/ |
| 3,638 | 2,34,897 | 33,74,625 | 25-26 |
| 2,415 | 85,444 | 29,91,872 | 32.35 |
| 3,182 | 44,132 | 29,96,146 | . 38.70 |
| 3,334 | 17,156 | 25,52,217 | 39-79 |
| 3,810 | 30,502 | 24,11,930 | 37.97 |
| 2,693 | 47,694 | 23,39,866 | 35-82 |
| 1,539 | 54,593 | 21,98,731 | 35.75 |
| 1,124 | 57,679 | 24,35,874 | 31-66 |
| 998 | 47,319 | 23,47,689 | 24.46 |
| 769 | 65,701 | 21,61,938 | 25-28 |
| 810 547* | 63,725 | 20,09,191 | 23-37 |
| | 79,566 | 19,26,437 | 22.98 |

the Irrigation Branches of the P. W. D. from the year 1921-22 to 1940-41 and repairs during that period in both the Branches.

VI.

of estimated figures and those on the basis of actuals to end of March final kept suspense.

| | | | _ | E | xpenditure on | Establishmer |
|---------|------|-------|---|--|--|--|
| | Year | | 68-Con- struction of Irrigation, Navigation, Embank- ment and Drainagø Works | XVII-Works for which capital accounts are kept | 18—Other Revenue Expendi- ture financed from Ordinary Revenue | XLI— Roceipts from Electricity schemes— Hydro- Electric Schemes |
| | | : | 9 | 10 | 11 | 12 |
| | | | Rs. | Rs. | Rs. | Rs. |
| 1921-22 | •• | . ۰ | 11,53,734 | 13,85,960 | 6,68,651 | •••• |
| 1922-23 | •• | • • • | 14,20,751 | 13,44,901 | 5,34,327 | •••• |
| 1923-24 | •• | ٠. | 21,87,793 | 14,43,222 | 4,32,013 | |
| 1924-25 | •• | •• | 29,10,785 | 17,37,724 | 5,26,361 | •••• |
| 1925-26 | •• | •• | 32,21,647 | 17,99,343 | 5,19,228 | •••• |
| 1926-27 | ** | •• | 35,56,959 | 18,08,385 | 5,94,989 | |
| 1927–28 | •• | •• | 36,98,956 | 19,20,773 | 7,80,312 | |
| 1928-29 | •• | •• | 39,04,670 | 21,35,939 | 6,16,601 | |
| 1929-30 | •• | | 42,26,873 | 21,08,302 | 6,18,312 | |
| 1930-31 | •• | • • | 42,88,966 | 18,31,149 | 5,99,621 | |
| 1931-32 | •• | | 40,37,972 | 16,34,011 | 5,18,627 | |
| 1932-33 | •• | • • | 28,70,427 | 23,53,971 | 4,01,329 | |
| 1933-34 | •• | • • | 17,60,090 | 29,83,531 | 5,14,407 | |
| 1934-35 | •• | | 15,36,830 | 30,98,255 | 4,55,037 | |
| 193536 | •• | •. | 1,37,301 | 8,66,476 | 1,73,501 | |
| 1936-37 | •• | • • | 74,021 | 8,24,868 | 1,63,507 | |
| 1937-38 | •• | •• | 68,679 | 7,70,784 | 1,27,039 | |
| 1938-39 | •• | • • | 53,922 | 8,22,086 | 1,39,881 | |
| 1939-40 | •• | • • | 37,362 | 7,77,209 | 1,14,778 | 1,422 |
| 1940-41 | •• | •• | 52,969 | 7,96,162 | 43,795 | 3,749 |

Note.—The percentage of the establishment charges on the cost of works and repairs Buildings Branch (column 8). The reason is largely that the establishment charges in cost of part of the time of Irrigation establishment spent on revenue management includ cost of establishment in the Irrigation Branch the percentage on the cost of works and Branch is mainly due to decrease in outlay on "works" and "repairs". Establishment A mere overall percentage on expenditure on works is inaccurate.

The figures from the year 1921-22 to 1934-35 pertain both to the Province of Bombay

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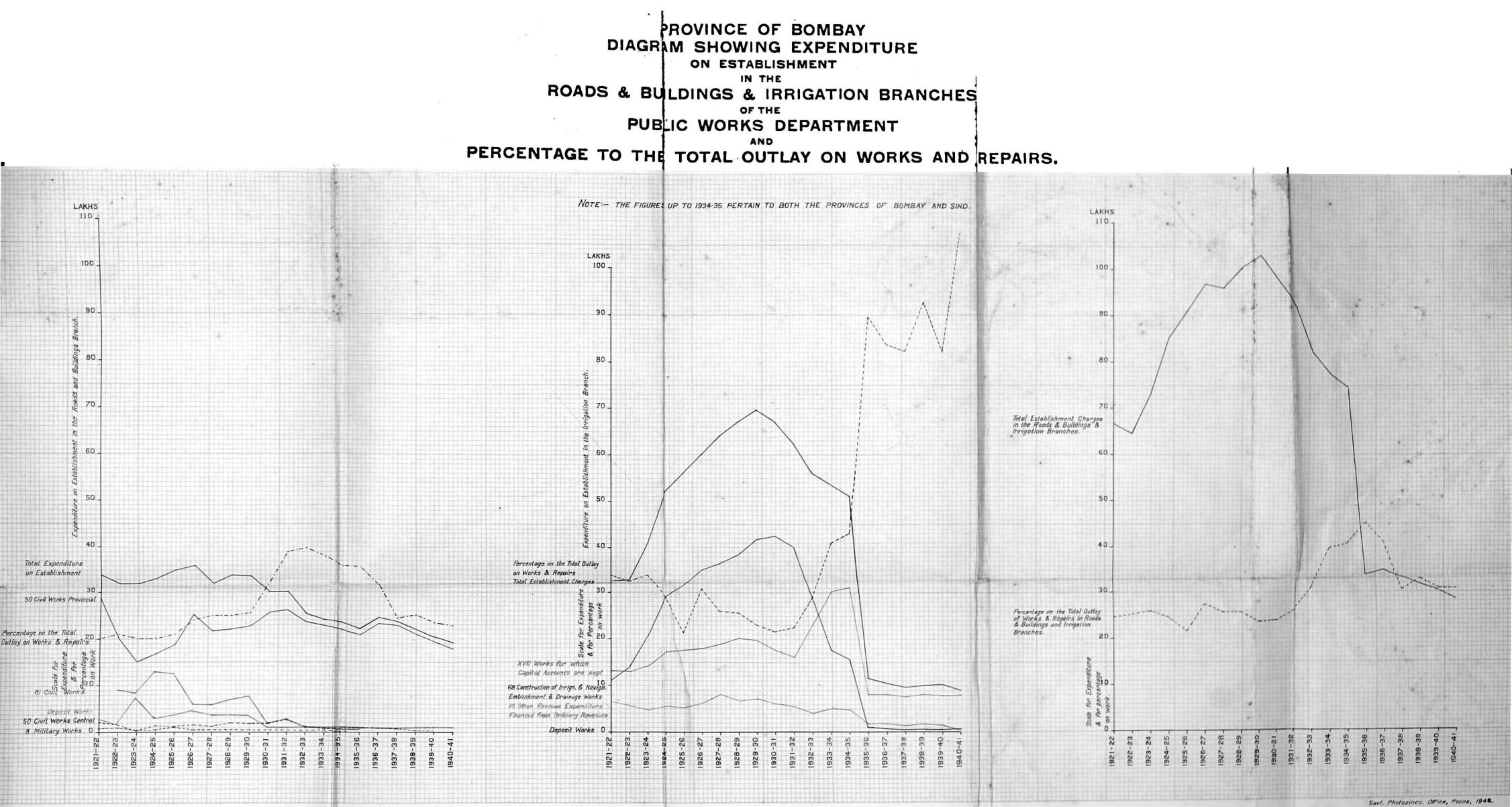
VI-contd.

in the Irrigation Branch

| m the migan | | · | · <u> </u> | <u></u> | <u> </u> |
|---|------------------|-----------------------------------|---|--|--|
| 53—Capital Outlay on Electricity schemes— Hydro- Electric Schemes | Deposit Works | Total establishment charges | Percentage on the total outlay on works and repairs in the Irrigation Branch | Total Establishment charges in the Roads and Buildings and Irrigation Branches | Percentage on the total outlay of works and repairs in the Roads and Buildings and Irrigation Branches |
| 13 | 14 | 15 | 16 | 17 | 18 |
| Rs. | Rs. | Rs. | | Rs. | |
| | 2,770 | 32,11,115 | 33.29 | 66,47,003 | 24-26 |
| •••• | 1,993 | 33,01,972 | 32.22 | 64,77,849 | 25.38 |
| | 2,056 | 40,65,084 | 38.89 | 72,55,023 | 25.87 |
| • • • • • | 492 | 51,75,362 | 28.73 | 84,91,025 | 24.35 |
| | 2,681 | 55,42,899 | 21.62 | . 90,66,854 | 21.23 |
| •••• | 3,207 | 59,63,540 | 30.26 | 96,60,479 | 27.54 |
| | 3,847 | 64,03,888 | 26.00 | 96,13,887 | 25-64 |
| | 2,750 | 66,59,960 | 25.51 | 1,00,45,026 | 25.35 |
| | 1,012 | 69,54,499 | 23.26 | 1,03,29,124 | 23-88 |
| <i>′</i> | 1,734 | 67,21,470 | 21.60 | 97,13,342 | 24.06 |
| | 86 | 61,90,696 | 22.40 | 91,86,842 | 25-97 |
| •••• | 680 | 56,26,407 | 28.54 | 81,78,624 | 31.30 |
| ••••• | 48,960 | 53,06,988 | 40.41 | 77,18,918 | 39-61 |
| · · · · · | | 50,90,563 | 42-89 | 74,30,429 | 40-38 |
| •••• | 61 | 11,77,339 | 89-46 | 33,76,070 | 45.21 |
| | 620 | 10,63,016 | 83 · 73 | 34,98,890 | 39.04 |
| | 73 | 9,66,575 | 82 • 27 | 33,14,264 | 30.77 |
| | | 10,15,889 | 92.85 | 31,77,827 | 32.95 |
| 89,598 | 317 | 10,20,686 | 82.62 | 30,29,877 | 30.82 |
| 4,452 | 1,109 | 9,02,236 | 107.88 | - 28,28,673 | 30.68 |

in the Irrigation Branch (column 16) is generally higher than that in the Roads and the Irrigation Branch include the cost of special Revenue Establishment employed connection with the execution of works and repairs, and that these charges also include ing the control and distribution of water, which is debited in the accounts to "revenue charges debited in the accounts to "revenue management" are deducted from the total repairs will not be so divergent. The increase in the rate per cent., in the R. & B. cbarges cannot be reduced in the same ratio in which expenditure on works is reduced.

and Sind.



APPENDIX VII.

| Serial No. | Name of work. | Estimated cost. | Expenditure to end of 1940-41. |
|---------------|--|-----------------|--------------------------------------|
| `` | - | Rs. | Rs. |
| | Class I. | · 4 | |
| 1 | Bombay-Agra Road | 10,22,077 | 9,85,149 |
| 2 | Bombay-Poona-Bangalore Road | 23,19,383 | 21,61,467 |
| 3 | Bombay-Konkan-Goa Road | 35,71,455 | 28,66,633 |
| 4 | Bombay-Ahmedabad-Rajputana Road · | 21,58,564 | 18,41,651 |
| 5 | Surat-Dhulia-Bhusawal-Edlabad-Nagpur Road. | 7,36,850 | 5,97,404 |
| 16 | Ahmedabad-Kaira-Godhra-Indore Road | 3,12,004 | 3,04,704 |
| 7 | Bombay-Poona-Ahmednagar-Aurangabad Road. | 9,783 | 9,698 |
| 8 | Bombay-Poona-Sholapur-Hyderabad Road | 4,06,426 | 3,78,085 |
| 9 | Chiplun-Karad-Jath-Bijapur-Sindgi-H y d e r a- bad Road | 9,62,528 | 8,54,889 |
| 10 | Poladpur-Mahableshwar-Surul Road | 27,325 | 26,373 |
| 11 | Sholapur-Bijapur-Hubli Road | 2,69,969 | 2,28,884 |
| 12 | Ratnagiri-Kolhapur-Miraj-Bijapur-Hyders b a d Road | 3,43,471 | 2,28,741 |
| 13 | Karwar-Bellary Road | 5,29,340 | 4,29,320 |
| | Total, Class I Roads | 1,26,67,175 | 1,09,12,998 |
| | Class II. | | |
| 14 | Bandra-Ghodbunder-Thans Road | 6,92,006 | 6,04,475 |
| 15 | Dahanu-Vihigaon Road | 1,64,217 | 1,31,900 |
| 16 | Ahmedabad-Viramgam-Mandal Road | 2,91,405 | 2,86,764 |
| 17 | Alibag-Dharamtar-Pen-Campoli Road | 80,492 | 78,898 |
| 18 | Kaira-Mehmedabad-Mahuda-Dakor Road | 56,221 | 55,638 |
| 19 | Alibag-Revas Road | 87,316 | 81,2 6 2 |
| | Ahmedabad-Ghogo Road | 2,31,621 | 2,27,368 |

Statement showing the programme of road development works in the Province of Bombay to end of the year 1940-41 together with the expenditure to end of that year.

мо-и Вk Т 7-7

| APPENDIX | VII-contd. |
|----------|------------|
|----------|------------|

| Serial No. | Name of work. | Estimated cost. | Expenditure to end of 1940-41. |
|---------------|--|-----------------|--------------------------------------|
| | Class II—contd. | Rs. | Rs. |
| 21 | Ranpur-Dhanduka-Dholera Road | 3,58,928 | 3,30,539 |
| 22 | Kurla-Andheri-Versova Road | 1,67,163 | 1,57,119 |
| 23 | Mahim-Manor Road | 67,116 | 69,189 |
| 24 | Nasik-Poona Road | 2,34,820 | 2,42,527 |
| 25 | Nawapur-Borzar-Warsa-Pimpalner-Sakri Road. | 18,903 | 8,926 |
| 2 6 | Burhanpur-Raver-Yawal-Cho p d a-S h i r p u r- Taloda-Raisingpur Road | 6,99,853 | 5,61,429 |
| 27 | Sholapur-Osmanabad Road | 52,000 | 25,864 |
| 28 | Pimpalgaon-Vinchur-Aurangabad Road | 25,005 | 5,000 |
| 29 | Bhusaval-Yawal Road | 35,968 | 4,974 |
| 30 | Pimpalner-Satara-Chandor-Vinchur Road | 1,63,000 | 1,498 |
| 31 | Mahad-Bhor-Phalton-Malsiras Road | 27,892 | 496 |
| 32 | Ahmednagar-Dhond-Patas Road | 17,491 | 13,081 |
| 83 | Ahmednagar-Manmad-Malegaon Road | 41,001 | 39,951 |
| 34 | Ghoti-Rajur-Sangamner-Bela p u r •N e w a s a• Shevgaon-Paithan Road ••• | 1,71,218 | 1,69,754 |
| 35 | Indapur-Baramati-Nira Road | 1,61,568 | 95,275 |
| 36 | Belgaum-Khanapur-Haliyal-Yellap u r-S i r s i- Kodkani-Mysore Frontier Road | 4,08,125 | 2,60,547 |
| 37 | Havnur-Ekambi Road | 77,271 | 71,932 |
| 38 | Gotur-Tasgaon Road | 44,328 | 41,320 |
| 39 | Dharwar-Saundatti-Yergatti-Gokak-San k e s h- war Road | 61,476 | 60,405 |
| 40 | Kumta-Sirsi-Hubli Road | 2,33,494 | 2,27,124 |
| 41 | Kolhapur-Tikota Road | 99,225 | 79,630 |
| | Total, Class II Roads | 47,59,123 | 39,32,885 |
| | Olass III. | <u> </u> | |
| 42 | Sion-Chembur Road | 42,308 | 30,647 |
| 43 | Tuwa-Bordi Road | 75,979 | 2,557 |

APPENDIX VII-contd.

| Serial No. | Name of work. | | Estimated cost. | Expenditure to end of 1940-41. |
|---------------|---|-----------|--------------------|--------------------------------------|
| | | | Rs. | Rs. |
| | Mass IIIoontd. | | | |
| 44 | Santa-Cruz-Juhu Road | | 47,605 | 35,615 |
| 45 | Madhi-Buhari Road | | 38,689 | 38,685 |
| 4 6 | Dungri-Untadi Road | •• | 15,791 | 16,334 |
| 47 | Bhesli-Broach Road | | 1,78,130 | 76,445 |
| 48 | Mandvi-Madhi Road | | 12,213 | 11,175 |
| 49 | Limdi-Sanjeli Roed | | 69,903 | 8,341 |
| 50 | Anas-Katwara Rosd | | 1,11,310 | 11,997 |
| 51 | Limdi-Pethapur-Chekalia-Dohad Road | - | 2,86,526 | 81,633 |
| 52 | Modernising Roads in Poona (I, II a instalments) | nd III | 5,87,625 | 5,77,333 |
| 53 | Poona-Paud-Lonavla Road | | 93,235 | 16,020 |
| 54 | Hadapsar-Saswad-Nira Bridge-Lou Waduth-Satara Road | nsnd- | 34,200 | 13,479 |
| 55 | Osmanabad-Yedshi Road | | 11,806 | 11,310 |
| 56 | Yedshi-Chausala Road | •• | 19,550 | 18,218 |
| 57 | Nesik-Trimbak-Gundaghat Road | | 49,300 | 50,413 |
| 58 | Camp-Deolali Road | | 92,434 | 90,291 |
| 59 | Donaiche-Shahada-Khetia Road | | 96,034 | 40,002 |
| 60 | Karad-Tasgaon Road | | 84,847 | 7,999 |
| 61 . | Poons-Khadakwasla-Singhad Road | | 57,611 | 45,212 |
| 62 | Wadgaon-Pimpri-Shrigonda-Chincholi-Ja Rosd. | mkhod | 50,571 | 35,649 |
| 63 | Phaltan-Sangvi-Baramati-Diks a l-R a i Karjat-Chincholi Road | shin- | 1,93,603 | 1,54,097 |
| 64 | Indapur-Akluj-Sangola Road | •• | 3,09,454 | 1,30,785 |
| 65 | Kolhar-Talikot Road | | 34,601 | 31,853 |
| 66 | Indi-Shirdhon Road | | 31,728 | 23,726 |
| 67 | Bijepur-Bagewadi Road | | 1,06,739 | 88,995 |
| 68 | Deogad-Kaladgi Road | | 28,947 | 25,319 |

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APPENDIX VII-concld.

| Serial No. | Name of work. | Estimated cost. | Expenditure to end of 1940-41. | |
|---------------|--|--------------------|--------------------------------------|--|
| | · · · · · · · · · · · · · · · · · · · | Rs. | Rs. | |
| | Class III—concld. | | | |
| 69 | Kamadgi-Gadag Road | . 35,507 | -17,753 | |
| 70 | Dharwar-Goa Frontier Road | . 12,448 | 12,393 | |
| 71 | Karwar-Goa Frontier Road | . 16,686 | 15,192 | |
| 72 | Karwar-Bhatkal-Madras Frontier Road | . I, 59,884 | 1,44,801 | |
| 73 | Talikot-Salvadgi Road | . 96,712 | 9,155 | |
| 74 | Asphalting different sections of roads near and about Belgaam | d . 2,29,249 | 2,26,201 | |
| 75 | Asphalting Provincial roads passing through Dhulia | h . 1,04,900 | 1,04,542 | |
| 76 | Modernising of roads in and adjoinin Ahmednagar City and Cantonment | g 2,02,951 | 1,88,566 | |
| 77 | Modernising of roads in and round about Karwar | t . 1,53,478 | 1,40,418 | |
| 78 | Asphalting Provincial roads in Sholapur | . 84,584 | 41,292 | |
| 79 | Modernising of roads in Bijapur | . 1,43,667 | 1,02,226 | |
| 80 | Modernising of roads in Baramati Town | . 28,507 | 28,388 | |
| 81 | Repairs and maintenance of works finance from Road Account | a | 1,44,946 | |
| 82 • | Survey for the preparation of plans an estimates and trial borings | d 9,240 | 7,313 | |
| 83 | Road experiment works | 1,63,189 | 1,51,110 | |
| 84 | Special tools and plant | 1,48,530 | 1,40,38 | |
| | Grand Total | 2,17,85,659 | 1,80,77,28 | |

APPENDIX VIII.

| N | | Expenditure incurred during the year | | | |
|-----|--|--------------------------------------|-------------------|----------|-----------------|
| No. | Name of work- | 193738* | 1938-39. | 1939-40 | 1940-41 |
| 1 | 2 | . 3 | 4 | 5 | 6 |
| , | Thana Division. | Rs. | Rs. | Rs. | Rs. |
| 1 | Modernising miles 25-27, 44 and 45 (furlongs 1 to 4) of the Bombay- Poona Road. | •••• | 34,859 | 1,52,764 | 7,836 |
| 2 | Modernising, with asphalt macadam, miles 25, 26 and part of 27 of the Bombay-Nasik Road. | •••• | 40,001 | 10,871 | ••••• |
| 8 | Modernising miles 30, 31, 42, 43, 53 and 54 of the Bombay-Poona Road. | | | 4,880 | 2,36,593 |
| 4 | Constructing R. C. C. Slab drain in mile No. 47/4 of Bombay-Agra Road. | | •••• | 5,508 | 304 |
| б - | Modernising miles 30 to 32/5 and 69 to 72 of the Bombay-Agra Road. | ···· | •••• | •••• | 1,83,822 |
| 6 | Modernising Bombay-Nasik Road miles 28 and 29 (Group No. II), miles 32/6 to 36 (Group No. IV) of the Bombay-Nasik Road. | | · · · · · · · · · | ••••• | 40,265 |
| 7 | Constructing a Slab drain of 40 openings in mile No. 50/6 of the Bombay-Agra Road. | | | | 8,997 |
| 8 | Constructing R. C. C. Slab drain of 3 openings in miles 39/8 of the Bombay-Agra Road. | | | •••• | ` 4,98 5 |
| | Poona Division. | | 1 . I | | |
| 9 | Modernising Bombay-Poons Road (Ghat-portion) miles 66 to 70 ¹ / ₂ . | | 9,945 | 29,327 | 73,768 |
| • | Modernising Bombay-Poona Road miles 98 to 107/4. | •••• | 26,839 | 1,87,214 | 1,13,846 |
| 1 | Modernising miles 94 to 98 of the Bombay-Poona Road. | •••• | ••••• | | 6,220 |
| 2 | Modernising miles 81/7 to 94 of the Bom bay-Poona Road. | | •••• | | 14,006 |

Statement showing Expenditure on Works and Repairs under Provincial Road Fund.

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*The expenditure incurred during 1937-38 mainly related to repairs and survey works.

| APPENDIX | VIII—conid. |
|----------|-------------|
|----------|-------------|

| | | Expenditure incurred during the year | | | |
|-----------------|---|--------------------------------------|----------|----------|-----------|
| No. | Name of work. | 1937-38.* | 1938-39. | 1939-40. | 1940-41 |
| 1 | 2 | 8 | 4 | 5 | 6 |
| | Kaira and Panch Mahale Division. | Rs. | Rs. | Rs. | Rs. |
| 13 | Constructing Godhra-Pali Road (a road from Godhra to Pali passing through Baroda State limits). | •••• | •••• | 5,534 | 2,890 |
| | Surat and Broach Division. | | | | |
| 14 _. | Improvement to the Rander approach to the Hope Bridge at Surat. | | •••• | 500 | 49,970 |
| | Nasik Division. | | | | |
| 15 | Modernising low lying portion of the Bombay-Agra Road between Ghoti and Igatpuri of Vihigaon-Nasik section miles 91/0 to 93/2 of the Bombay-Nasik Road. | | 19,997 | 52,679 | 6,130 |
| 16 | Modernising (with a cement concrete surface) miles 80 to 84 (Thal Ghat) of the Bombay-Nasik section of the Bombay-Agra Road. | | | 13,618 | 66,018 |
| 17 | Realignment of the Devi Ghat in mile 156 of the Bombay-Agra Road. | | | | 5,005 |
| 18 | Construction of R. C. C. Bridge over nalla No. 248 in mile 131/3 of the Bombay-Agra Road near Pimpal- gaon Baswant. | | : | | 3,994 |
| | Survey for preparation of plans and estimates in various divisions. | | 2,628 | 2,380 | 225 |
| | Repairs | | 11,290 | 173 | |
| | Special Tools and Plants | [| 15,764 | 3,583 | 3,766 |
| | Add Establishment and tools and plant charges. | •••• | 43,364 | 1,28,241 | 2,26,169 |
| | Total | 3,78,657* | 2,04,687 | 5,97,275 | 10,63,807 |

Note.—The above expenditure is exclusive of Rs. 3,21,353 representing expenditure on approach. Roads to villages incurred during 1939-40.

*The expenditure incurred during 1937-38 mainly related to repairs and survey works.

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APPENDIX IX.

List of members on the Board of Communications on the 31st March 1941.

- 1. H. F. Knight, Esquire, C.I.E., I.C.S., Adviser to H. E. the Governor (Chairman).
- The Chief Engineer and Secretary to Government, Public Works Department. 2.
- 3. The Secretary to Government, Finance Department.
- 4. The Secretary to Government, Revenue Department.
- 5. The Secretary to Government, General Department.
- 6. The Commissioner, Northern Division.
- 7. The Commissioner, Central Division.
- 8. The Commissioner, Southern Division.
- 9. The Chief Engineer, Southern Command, Poona.

10. The Honourable Mr. R. H. Parker, Member, Council of State, Representative of the Standing Committee for Roads.

- 11. N. D. Deodhekar, Esquire, M.L.C. 12. Rao Bahadur G. K. Chitale, M.L.A.
- 13. Rao Saheb G. K. Desai, M.L.A. 14. Mr. Ismail Moosa Patel, M.L.A.

15. A Representative of the G. I. P. Bailway.

16. H. E. Ormerod, Esquire, Representative of the Indian Roads and Transport Development Association, Ltd.

17. N. M. Chinoy, Esquire, Représentative of the Western India Automobile Association.

18. G. H. Richmond, Esquire, Representative of the Bombay Chamber of Commerce,

19. K. C. Desai, Esquire, Representative of the Indian Merchants' Chamber.

20. M. L. Dahanukar, Esquire, Representative of the Maharashtra Chamber of Commerce.

21. The Deputy Secretary to Government, Public Works Department, Roads and Buildings. (Secretary, Board of Communications).

Representatives, District Local Boards.

APPENDIX X.

List of members of the Standing Advisory Committee for the Back Bay Reclamation Scheme for the year 1940-41.

| | Name of Member | • | Constituency. |
|----------|---|-----------------------------|--|
| 1. | Mr. L. A. Halsall (Chairman) | •• | The Bombay Chamber of Commerce. |
| 2. 3. | Mr. Manu Subedar Mr. V. N. Chandavarkar | • • | Indian Merchants' Chamber. Millowners' Association. |
| | Mr. Hoseinbhoy A. Lalljee | •• | Bombay. The Bombay Municipal Cor- |
| 5. | Mr. G. E. Terrey, M.Inst.C.E Bombay Port Trust | ., Chief Eng | poration. |
| 6. | Mr. N. V. Modak, City En Municipality | ngineer, Bo | mbay |
| 7. | | M.R.S.I., Mar Port Trust | ager, Nominated by Government. |
| 8. 9. | Mr. K. S. Framji, C.I.E. | •• | ered |

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