

National Institute of Sciences of India.

ANNUAL REPORT.

The Council of the National Institute of Sciences of India have pleasure in submitting the following report on the general concerns of the Institute for the year 1943, as required by the provisions of Rule 48(f).

Membership.

The number of Fellows on the roll of the Institute at the beginning of the year was 190 Ordinary Fellows and 22 Honorary Fellows. Fourteen Ordinary Fellows were elected during the year in accordance with the procedure laid down in the Regulations. One Ordinary Fellow resigned, and one Ordinary Fellow died during the year. The total number of Fellows on the roll at the end of the year is 202 Ordinary Fellows and 22 Honorary Fellows. Of the 202 Ordinary Fellows 8 are non-resident.

Meetings.

The Eighth Annual General Meeting was held in the Pure Chemistry Lecture Theatre of the University College of Science, Calcutta, on the 1st January, 1943. An account of the meeting was published in the *Proceedings*, Vol. IX, No. 1, pp. 1-2.

Two Ordinary General Meetings were held in the rooms of the Royal Asiatic Society of Bengal, 1 Park Street, Calcutta : one on the 27th August, 1943, for reading of papers and the other on the 27th and 28th September, 1943, for holding a Symposium on 'Post-war organisation of Scientific Research in India'. Some of the papers read at these meetings have already been published in the *Proceedings*, Vol. IX, No. 2, and the rest are in course of publication.

The Council.

The officers and members of Council for the year 1943 were elected at the Eighth Annual General Meeting held on the 1st January, 1943. The Council, together with the representatives of the co-operating Academies, the Indian Science Congress Association and the Government of India, was constituted as follows:—

<i>President</i> .. ..	..	..	Sir J. C. Ghosh.
<i>Vice-Presidents</i> .. ..	..	..	Prof. S. K. Mitra. Mr. D. N. Wadia.
<i>Additional Vice-Presidents</i> .. ..	..	..	Prof. S. N. Bose. Prof. K. S. Krishnan. Dr. H. R. Mehra. Mr. W. D. West.
<i>Treasurer</i> .. ..	..	..	Rai Bahadur Dr. K. N. Bagechi.
<i>Foreign Secretary</i> .. ..	..	..	Prof. J. N. Mukherjee.

<i>Secretaries</i>	Prof. S. P. Agharkar. Sir Cyril S. Fox.
<i>Editor of Publications</i>	Rai Bahadur Dr. S. L. Hora.
<i>Members of Council</i>	Dr. K. Bagchee. Sir S. S. Bhatnagar. Dr. F. H. Gravely. Prof. B. C. Guha. Dr. B. S. Guha. Dr. M. Ishaq. Dr. D. S. Kothari. Dr. K. G. Naik. Prof. V. V. Narlikar. Principal P. Parija. Dr. F. G. Percival. Dr. K. R. Ramanathan. Mr. B. Rama Rao. Prof. P. Ray. Prof. M. R. Siddiqi. Dr. N. K. Sur. Dr. K. Venkataraman. Brevet-Col. Sir R. N. Chopra Sir Lewis Fermor Dr. B. Prashad Prof. M. N. Saha
<i>Additional Members of Council</i>	Dr. D. M. Bose. Dr. M. S. Krishnan. Prof. P. C. Mahalanobis. Rai Sahib Dr. P. L. Srivastava.

} *Ex-officio.*

The Council held ten ordinary and two emergency meetings during the year.

Committees.

The Sectional Committees are given in Appendix II.

Publications.

Two numbers of the *Proceedings* and one number of the *Indian Science Abstracts* (Part I, 1939) were published during the year.

Another part of the *Indian Science Abstracts* (Part II, 1938) is nearly ready and will soon be distributed. As mentioned in the Annual Report for 1942, the Council decided to suspend publication of the *Indian Science Abstracts* after completing the volumes for 1938 and 1939 for the duration of the war to economise paper. It was further decided to prepare and keep the typescript of the *Indian Science Abstracts* for subsequent years in the office of the National Institute of Sciences of India, and publish them as soon as practicable. In accordance with this decision the Council have earmarked Rs.5,000 from the income of 1942-43 for printing of the abstracts for the years 1940 onwards.

After considering the above question carefully the Council decided, at its meeting held on the 8th December, 1943, to publish the volumes of abstracts for the years 1940 and 1941, as soon as material for the same has been collected, utilising the funds earmarked for the purpose. This will enable arrears to be

cleared up quickly. It was further resolved to publish four parts of the *Proceedings* of the National Institute during 1944.

Exchanges.

One additional Institution was placed on the distribution list for the publications of the Institute, bringing the total number on the list to ninety-nine.

Library.

Two hundred and one parts of periodicals and reprints were added to the library during the year.

Presents and Donations.

The following grants-in-aid were made to the Institute during the year:—

- (1) Rs.6,000 from the Government of India.
- (2) Rs.500 from the Calcutta University.
- (3) Rs.300 from the Osmania University.
- (4) Rs.200 from the Dacca University.

A grant of Rs.250 was received from the Madras University in connection with the printing of a paper by Messrs. R. Gopala Aiyar and K. H. Alikunhi in the *Proceedings* of the Institute.

Finance.

An audited statement of accounts of the Institute for the period from 1st December, 1942 to 30th November, 1943, is submitted (*vide* Appendix III). The total ordinary receipts for this period are Rs.15,402-0-9 (inclusive of the Government of India grant of Rs.6,000) and the ordinary payments are Rs.11,162-14-0, leaving a balance of Rs.4,239-2-9. A sum of Rs.800 was realised on account of admission fees and a further sum of Rs.193 was received as compounding fees.

At the beginning of the year the cash position of the Institute was as follows:—

			Rs.	A.	P.
In Savings Bank account	..	..	5,757	4	0*
„ Government paper	..	..	40,000	0	0
„ Current account	..	..	8,383	8	6
„ hand	..	..	1	0	6
TOTAL	..	..	54,141	13	0

* Included a sum of Rs.3,275-0-8 on account of the Permanent Fund.

At the end of the year, however, the cash position was as shown below:—

			Rs.	A.	P.
In Savings Bank account	..	..	2,384	1	6
„ Government paper	48,400	0	0
„ Current account	8,630	6	0
„ hand	10	8	3
			<hr/>		
		TOTAL	59,424	15	9
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At their meeting held on 8th December, 1943, the Council decided to reconsider the investments of the National Institute. This was to be discussed at another meeting of the Council during 1944 after obtaining a report on the subject from a reliable firm of brokers.

APPENDICES.

- I. List of Fellows.
- II. Committees, 1944.
- III. Audited statement of accounts, Dec. 1942–Nov. 1943.
- IV. Budget Estimates, Dec. 1943–Nov. 1944.

APPENDIX I.

LIST OF FELLOWS.

ORDINARY FELLOWS.

1. ABRAHAM, LT.-COL. W. E. V., A.R.C.S. (I.), F.G.S., M.Inst.P.T., Senior Geologist, Burmah Oil Co., Ltd., Burma, Khodaung, Magwe, Burma. (1936).
2. AGHARKAR, S. P., M.A., Ph.D., F.L.S., Ghose Professor of Botany, Calcutta University, 35 Ballygunge Circular Road, Calcutta.
3. AHMAD, NAZIR, O.B.E., M.Sc., Ph.D., Director, Indian Central Cotton Committee's Technological Laboratory, Matunga, Bombay.
4. AIYAR, R. GOPALA, M.A., L.T., M.Sc., University Professor of Zoology and Director, University Zoological Laboratory, Madras. (1938).
5. AJREKAR, S. L., B.A., I.E.S. (Retd.), Bhandarkar Institute Road, Poona 4.
6. ANANDA RAO, K., Rao Bahadur, M.A., I.E.S., Professor of Mathematics, Presidency College, Madras.
7. ASH, W. C., B.Sc., M.Inst.C.E., A.M.I.Mech.E., Bengal Club, Calcutta.
8. AUDEN, J. B., M.A. (Cantab.), Geologist, Geological Survey of India, Indian Museum, Calcutta. (1938).
9. AWATI, P. R., B.A., D.I.C., I.E.S., Professor of Zoology, Royal Institute of Science (Retd.), Mayo Road, Bombay 1.
10. BAGCHEE, K. D., D.Sc., D.I.C., Mycologist, Imperial Forest Research Institute, Dehra Dun, U.P.
11. BAGCHI, K. N., Rai Bahadur, B.Sc., M.B., D.T.M., F.I.C., Chemical Examiner to the Government of Bengal and Professor of Chemistry, Calcutta Medical College, Calcutta. (1940).
12. BAHL, K. N., D.Sc., D.Phil., Professor of Zoology, Lucknow University, Lucknow.
13. BANERJEE, K., D.Sc., Mahendralal Sircar Professor of Physics, Indian Association for the Cultivation of Science, 210 Bowbazar Street, Calcutta. (1939).
14. BANERJI, A. C., M.Sc., M.A., F.R.A.S., I.E.S., Professor of Mathematics, Allahabad University, Allahabad.
15. BANERJI, S. K., O.B.E., D.Sc., Director, Upper Air Observatory, Lodi Road, New Delhi.
16. BARDHAN, J. C., D.Sc. (Cal. & Lond.), Lecturer in Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta. (1942).
17. BASU, J. K., M.Sc., Ph.D., Soil Physicist, Sugarcane Research Institute, Padegaon, P.O. Nira R.S., Dt. Poona. (1941).
18. BEESON, C. F. C., C.I.E., D.Sc., Thames House, near Eynsham, Oxford.
19. BEHARI, RAM, M.A., Ph.D., Reader in Mathematics, Delhi University and Professor, St. Stephen's College, Delhi. (1941).
20. BHABHA, H. J., Ph.D., F.R.S., Visiting Professor, Indian Institute of Science, Bangalore, Mehraangir, Little Gibbs Road, Malabar Hill, Bombay. (1941).
21. BHARADWAJ, Y., M.Sc., Ph.D. (Lond.), F.L.S., Professor of Botany and Head of the Department, Benares Hindu University, Benares. (1937).
22. BHARUCHA, F. R., B.A., B.Sc., M.Sc., D.Sc., Professor of Botany and Head of the Department, Royal Institute of Science, Bombay. (1939).
23. BHASKARA SHASTRI, T. P., Rai Saheb, M.A., F.R.A.S., Director, Nizamiah Observatory, Hyderabad (Deccan).
24. BHATNAGAR, SIR S. S., Kt., O.B.E., D.Sc., F.R.S., F.I.C., F.Inst.P., Director of Scientific and Industrial Research, University Buildings, Delhi.
25. BHATTACHARYA, D. R., D.Sc., Ph.D., F.Z.S., Professor of Zoology, Allahabad University, 7 Malaviya Road, Allahabad.

26. BOMFORD, LT.-COL. G., R.E., Survey of India, Temporary Secretariat, Delhi. (1935).
27. BOR, N. L., M.A., D.Sc., F.L.S., c/o Conservator of Forests, Assam, Shillong. (1941).
28. BOSE, D. M., M.A., B.Sc., Ph.D., Director, Bose Institute, 93 Upper Circular Road, Calcutta.
29. BOSE, G. S., D.Sc., M.B., Head of the Department of Experimental Psychology, Calcutta University, 92 Upper Circular Road, Calcutta.
30. BOSE, N. K., M.Sc., Ph.D., Director, River Physics Laboratory, Calcutta. (1938).
31. BOSE, R. C., M.A., Lecturer in Statistics, Calcutta University, Presidency College, Calcutta. (1942).
32. BOSE, S. N., M.Sc., Professor of Physics and Head of the Department, Dacca University, Ramna, Dacca.
33. BOSE, S. R., M.A., Ph.D., F.R.S.E., Professor of Botany, Carmichael Medical College, Calcutta. (1935).
34. BRAHMACHARI, SIR U. N., Kt., Rai Bahadur, M.A., M.D., Ph.D., F.R.A.S.B., K.I.H., Physician, Medical College Hospitals, Calcutta (Retired), 19 Loudon Street, Calcutta.
35. BURRIDGE, W., D.M., M.A. (Oxon), Professor of Physiology, Lucknow University Lucknow.
36. CALDER, C. C., B.Sc. (Agr.), F.L.S., 18 Gladstone Place, Aberdeen, Scotland.
37. CHAKRAVARTI, S. N., D.Sc., D.Phil., F.C.S., F.I.C., Chemical Examiner to the Governments of U.P. and C.P., 45 Taj Road, Agra. (1935).
38. CHATTERJEE, N. C., D.Sc., Assistant Entomologist, Forest Research Institute, Dehra Dun. (1942).
39. CHAUDHURI, H., D.Sc., Ph.D., D.I.C., Head of the Department of University Teaching in Botany and Director, Kashyap Research Laboratory, Panjab University, Lahore.
40. CHOPRA, B. N., D.Sc., F.L.S., Assistant Superintendent, Zoological Survey of India, Kaisar Castle, Benares Cantt. (1935).
41. CHOPRA, BREVET-COL. SIR R. N., Kt., C.I.E., M.D., Sc.D., F.R.A.S.B., F.R.C.P., I.M.S. (Retd.), Director, Drug Research Laboratory, Jammu-Tawi, Jammu and Kashmir State.
42. CHOWDHURY, J. K., M.Sc., Dr.Phil. (Berlin), Reader in Chemistry, Dacca University, Ramna, Dacca. (1938).
43. CHOWDHURY, K. AHMAD, B.A., B.Sc., M.S., D.Sc., Wood Technologist, Forest Research Institute, New Forest, Dehra Dun. (1940).
44. CLEGG, E. L. G., D.Sc., M.I.M.M., Director, Geological Survey of India, 27 Chowringhee, Calcutta. (1943).
45. COULSON, A. L., D.Sc., D.I.C., F.G.S., Superintending Geologist, Geological Survey of India, 27 Chowringhee, Calcutta. (1935).
46. CROOKSHANK, H., B.A., D.Sc., B.A.I., Capt., A.I.R.O., Superintending Geologist, Geological Survey of India, c/o Garrison Engineer, Razmak. (1938).
47. DAS, A. K., D.Sc. (Dr. d'état) (Paris), Meteorologist, Meteorological Office, Willingdon Air Station, New Delhi. (1943).
48. DASTUR, R. H., M.Sc., Cotton Physiologist, Agricultural College, Lyallpur, Punjab.
49. DATTA, S., M.Sc., D.Sc., D.I.C., Principal, Rajshahi College, Rajshahi. (1935).
50. DATTA, CAPTAIN S. C. A., D.Sc., F.R.S.E., M.R.C.V.S., D.T.V.M., A.I.R.O., No. 41, Indian Veterinary Recep. Hospital, No. 12, A.B.P.O.
51. DE, M. N., M.B. (Cal.), M.R.C.P. (Lond.), Professor of Medicine, Medical College and First Physician, Medical College Hospital, Calcutta. (1942).
52. DE, P., M.B. (Cal.), F.R.C.P.E., Professor of Physiology, Medical College, Calcutta. (1943).
53. DESAI, R. D., M.Sc., D.Sc. (Lond.), D.I.C., Deputy-Head, Applied Chemistry Department, V.J.T. Institute, Matunga, Bombay. (1942).
54. DEY, B. B., D.Sc., F.I.C., I.E.S., Professor of Chemistry, Presidency College, Madras.
55. DHAR, N. R., D.Sc., F.I.C., I.E.S., Deputy Director of Public Instruction, U.P., Allahabad.

56. DHAR, S. C., M.Sc., D.Sc. (Cal., Edin.), F.R.S.E., Professor and Head of the Department of Mathematics, Nagpur University, Nagpur. (1938).
57. DIKSHIT, B. B., Ph.D. (Edin.), M.R.C.P. (Edin.), D.P.H. (Calcutta), M.B.B.S. (Bombay), Officer-in-charge, Pharmacology Department, Haffkine Institute, Bombay. (1941).
58. DUNN, J. A., D.Sc., D.I.C., F.G.S., Superintending Geologist, Geological Survey of India, 27 Chowringhee, Calcutta. (1935).
59. DUNNICLIFF, H. B., C.I.E., M.A., Sc.D., F.I.C., I.E.S., I.D.G. Club, New Delhi.
60. DUTT, S. B., D.Sc., D.I.C., Reader in Organic Chemistry, Allahabad University, Allahabad. (1935).
61. ELWIN, VERRIER, M.A., F.R.A.I., Fellow, Morton College, Oxford; Bhumijan Seva Mandal, Patangarh P.O., Dindori Tahsil, Mandla Dist., C.P. (1943).
62. EVANS, P., B.A., F.G.S., c/o Messrs. Burmah Oil Co., Ltd., Britannic House, Finsbury Circus, London, E.C.2.
63. FERMOE, SIR LEWIS L., Kt., O.B.E., D.Sc., A.R.S.M., M.Inst.M.M., F.G.S., F.R.A.S.B., F.R.S., 24 Durdham Park, Bristol 6.
64. FOWLER, GILBERT J., D.Sc., F.I.C., Consulting Chemist, Central Hotel, Bangalore.
65. FOX, SIR CYRIL S., Kt., D.Sc., M.I.Min.E., F.G.S., F.R.A.S.B., Officer on Special Duty, Department of Labour, Government of India; 5 London Court, Moira Street, Calcutta.
66. GEE, E. R., M.A., F.G.S., Superintending Geologist, Geological Survey of India, 27 Chowringhee, Calcutta. (1935).
67. GHOSE, S. L., M.Sc., Ph.D., Professor of Botany, Government College, Lahore.
68. GHOSH, B. N., D.Sc. (Lond.), Lecturer in Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta. (1942).
69. GHOSH, J., M.A., Ph.D., Professor of Mathematics, Presidency College, Calcutta. (1936).
70. GHOSH, SIR J. C., Kt., D.Sc., Director, Indian Institute of Science, Malleswaram, Bangalore.
71. GHOSH, P. K., M.Sc., D.I.C., D.Sc. (Lond.), Geologist, Geological Survey of India, 27 Chowringhee, Calcutta. (1941).
72. GHOSH, P. N., M.A., Ph.D., Sc.D. (Hon.), F.Inst.P., Ghose Professor of Applied Physics, Calcutta University, 92 Upper Circular Road, Calcutta.
73. GHOSH, R. N., D.Sc., Reader in Physics, Allahabad University, Allahabad. (1939).
74. GHURYE, G. S., M.A., Ph.D., Professor of Sociology, University of Bombay, Fuller Road, Bombay. (1941).
75. GLENNIE, COL. E. A., D.S.O., R.E., Survey of India, Dehra Dun.
76. GRAVELY, F. H., D.Sc., F.R.A.S.B., Association Hill, Kodaikanal, S.I.
77. GUHA, B. C., D.Sc., Ghose Professor of Applied Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta. (1941).
78. GUHA, B. S., M.A., Ph.D., F.R.A.S.B., Assistant Superintendent, Zoological Survey of India, Kaiser Castle, Benares Cantt.
79. GUHA, P. C., D.Sc., Acting Professor of Organic Chemistry, Indian Institute of Science, Malleswaram, Bangalore. (1935).
80. HADDOW, J. R., O.B.E., B.Sc., M.R.C.V.S., D.V.S.M., I.V.S., Deputy Director and Officer-in-charge, Pathology and Bacteriology, Imperial Veterinary Research Institute, Muktesar-Kumaun, U.P.
81. HENDRY, D., M.C., B.Sc., N.D.A., Director, Imperial Chemical Industries, India, 18 Strand Road, Calcutta. (1938).
82. HERON, A. M., D.Sc., F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., Mines and Geology Office, Hyderabad (Deccan).
83. HORA, S. L., Rai Bahadur, D.Sc., F.R.S.E., F.L.S., F.Z.S., F.R.A.S.B., Director of Fisheries, Bengal, 1 Deodar Street, Calcutta.
84. HUSAIN, M. AFZAL, Khan Bahadur, M.A., M.Sc., I.A.S., Vice-Chancellor, Panjab University, Lahore.
85. ISHAQ, MOHAMMED, M.Sc., Ph.D., Head of the Department of Physics, Muslim University, Aligarh. (1940).

86. IYENGAR, M. O. P., M.A., Ph.D., F.L.S., University Professor of Botany, Madras University, Triplicane, Madras.
87. JOSHI, A. C., D.Sc., Assistant Professor of Botany, Benares Hindu University, Benares. (1938).
88. KAPUR, S. N., Ph.D., Officer on Special Duty, Timber Directorate, Department of Supply, New Delhi.
89. KICHLU, P. K., D.Sc., Professor of Physics, Government College, Lahore. (1935).
90. KOTHARI, D. S., M.Sc., Ph.D., Reader and Head of the Department of Physics, Delhi University, Delhi. (1936).
91. KRISHNA, S., C.I.E., Ph.D., D.Sc., F.I.C., Forest Biochemist, Forest Research Institute, New Forest, Dehra Dun (U.P.).
92. KRISHNAN, K. S., D.Sc., F.R.S., Professor of Physics, Allahabad University, Allahabad.
93. KRISHNAN, K. V., M.B.B.S., L.R.C.P., D.B., D.Sc., Professor of Microbiology, All-India Institute of Hygiene and Public Health, Calcutta.
94. KRISHNAN, M. S., A.R.C.S., Ph.D., D.I.C., Geologist, Geological Survey of India, Bhimasena Gardens, Mylapore, Madras. (1935).
95. LAL, R. B., M.B.B.S., D.P.H., D.T.M. & H., D.B., Professor of Vital Statistics and Epidemiology, All-India Institute of Hygiene and Public Health, Calcutta. (1935).
96. LAW, S. C., M.A., B.L., Ph.D., F.Z.S., M.B.O.U., 50 Kailas Bose Street, Calcutta. (1936).
97. MACMAHON, P. S., M.Sc., B.Sc. (Oxon), F.I.C., I.E.S., Professor of Chemistry, Lucknow University, Lucknow.
98. MADHAVA, K. B., M.A., A.I.A. (Lond.), Professor of Mathematical Economics and Statistics, Mysore University, Lakshimpuram, Mysore. (1940).
99. MAHAJANI, G. S., M.A., Ph.D., Principal and Professor of Mathematics, Fergusson College, Poona 4.
100. MAHALANOBIS, P. C., O.B.E., M.A., B.Sc., I.E.S., Professor of Physics, Presidency College, Calcutta.
101. MAHESHWARI, P., D.Sc., Head of the Department of Biology, Dacca University, Ramna, Dacca. (1935).
102. MAJUMDAR, D. N., M.A., Ph.D., F.R.A.I., Lecturer in Anthropology, Lucknow University, Lucknow. (1940).
103. MAJUMDAR, G. P., Ph.D., Professor of Botany, Presidency College, Calcutta. (1943).
104. MAJUMDAR, R. C., Dr.Phil.Nat. (Jena), Research Fellow, Bose Institute, 93 Upper Circular Road, Calcutta. (1941).
105. MATTHAI, GEORGE, M.A., Sc.D., F.L.S., F.Z.S., F.R.S.E., Professor of Zoology, Panjab University, Lahore.
106. MEHRA, H. R., M.Sc., Ph.D., Reader in Zoology, Allahabad University, Allahabad.
107. MEHTA, K. C., Rai Bahadur, M.Sc., Ph.D., Sc.D., Professor of Botany, Agra College, Agra.
108. MILLS, J. P., M.A., I.C.S., Secretary to H.E. the Governor of Assam, Government House, Shillong, Assam. (1936).
109. MITRA, S. C., M.A., D.Phil. (Leip.), Lecturer in Psychology, Calcutta University, 92 Upper Circular Road, Calcutta. (1941).
110. MITRA, S. K., M.B.E., D.Sc., Ghose Professor of Physics, Calcutta University, 92 Upper Circular Road, Calcutta.
111. MITTER, P. C., M.A., Ph.D., Palit Professor of Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta.
112. MOOKERJEE, H. K., D.Sc., D.I.C., Sir Nilratan Sirkar Professor of Zoology and Head of the Department, Calcutta University, 35 Ballygunge Circular Road, Calcutta. (1939).
113. MOWDAWALLA, F. N., M.A., M.I.E.E., Mem.A.I.E.E., M.I.E., 301 Frere Road, Fort, Bombay.
114. MUKERJI, B., M.B. (Cal.), M.D., D.Sc. (Michi.), F.A.Ph.S. (U.S.A.), Offg. Director, Biochemical Standardisation Laboratory, Government of India, 110 Chittaranjan Avenue, Calcutta. (1943).

115. MUKHERJEE, J. N., C.B.E., D.Sc., F.C.S., F.R.A.S.B., Ghose Professor of Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta.
116. NAIK, K. G., D.Sc., F.I.C., Retired Principal, Baroda College, Baroda.
117. NARAYANAMURTI, D., B.Sc., Dr.Ing., Officer-in-charge, Wood Preservation Section, Forest Research Institute, New Forest, Dehra Dun. (1940).
118. NARLIKAR, V. V., B.Sc. (Bom.), B.A. (Cantab.), F.R.A.S., Professor of Mathematics and Head of the Department, Benares Hindu University, Benares. (1939).
119. NATH, RAJ, Ph.D., D.I.C., Professor of Geology, Benares Hindu University, Benares. (1943).
120. NATH, VISHWA, M.Sc., Ph.D., F.R.M.S., Professor of Zoology, Government College, Lahore. (1940).
121. NEOGI, P., M.A., Ph.D., I.E.S. (Retd.), 44A New Shambazar Street, Calcutta. (1936).
122. NORMAND, C. W. B., C.I.E., M.A., D.Sc., Director-General of Observatories, India Meteorological Department, Lodi Road, New Delhi.
123. OLVER, COL. SIR ARTHUR, C.B., C.M.G., F.R.C.V.S., Principal, Royal Veterinary College, Edinburgh.
124. PANDIT, C. G., O.B.E., M.B.B.S., Ph.D., D.P.H., D.T.M., Director, King Institute of Preventive Medicine, Guindy, Madras. (1939).
125. PARANJPE, G. R., M.Sc., A.I.I.Sc., I.E.S., Principal and Professor of Physics, Royal Institute of Science, Bombay. (1937).
126. PARANJPE, SIR R. P., Kt., D.Sc., Purushottam Ashram, Poona 4.
127. PARIJA, P., M.A., B.Sc., I.E.S., Principal and Professor of Botany, Ravenshaw College, Cuttack.
128. PASRICHA, LT.-COL. C. L., M.A., M.B., B.Chir., M.R.C.S., L.R.C.P., I.M.S., A.D.M.S. (Liaison), General Headquarters, India, Medical Directorate, New Delhi. (1939).
129. PERCIVAL, F. G., O.B.E., Ph.D., F.G.S., Superintendent of Mines and Quarries, Tata Iron & Steel Co., Ltd., 3 Beldih Lake Road, Jamshedpur. (1936).
130. PHILPOT, H. P., B.Sc. (Eng.), M.Inst.C.E., M.I.Mech.E., M.I.A.E., M.I.M., Principal and Jodhpur Hardinge Professor of Technology, Engineering College, Benares Hindu University, Benares.
131. PICHAMUTHU, C. S., B.Sc., Ph.D. (Glasgow), F.R.S.E., Professor and Head of the Department of Geology, Central College, Bangalore. (1942).
132. PINFOLD, E. S., M.A., F.G.S., Geologist, The Attock Oil Co., Rawalpindi.
133. PRASAD, B. N., M.Sc., D.Sc., Ph.D., Reader in Mathematics, Allahabad University, Allahabad. (1936).
134. PRASAD, MATA, D.Sc., F.I.C., Professor of Inorganic and Physical Chemistry, Royal Institute of Science, Bombay. (1935).
135. PRASHAD, BAINI, O.B.E., D.Sc., F.R.S.E., F.L.S., F.Z.S., F.R.A.S.B., Director, Zoological Survey of India, Kaiser Castle, Benares Cantt.
136. PRUTHI, H. S., M.Sc., Ph.D., Imperial Entomologist, Imperial Agricultural Research Institute, New Delhi.
137. QURESHI, MUZAFARUDDIN, Ph.D., Professor of Chemistry, Osmania University, Hyderabad (Deccan).
138. RAJ, B. SUNDARA, Diwan Bahadur, M.A., Ph.D., Airedale, St. Thomas Mt., Madras. (1935).
139. RAKSHI, H., D.Sc., F.Inst.P., Lecturer in Physics, Calcutta University, 92 Upper Circular Road, Calcutta. (1943).
140. RAMANATHAN, K. R., Diwan Bahadur, M.A., D.Sc., Superintending Meteorologist, Meteorological Office, Poona 5.
141. RAMDAS, L. A., M.A., Ph.D., Agricultural Meteorologist, Meteorological Office, Poona 5. (1935).
142. RAMIAH, K., M.B.E., L.Ag., M.Sc. (Cantab.), Dip.Agr. (Cantab.), Geneticist, Institute of Plant Industry, Indore. (1942).
143. RANDHAWA, M. S., M.Sc., I.C.S., Deputy Commissioner, Rae Bareilly, U.P. (1943).
144. RANGASWAMI AYYANGAR, G. N., Rao Bahadur, B.A., I.A.S. (Retd.), 'Anjali', 10/131 Thiruvengadaswami Road, R.S. Puram, Coimbatore.
145. RAO, B. RAMA, M.A., D.I.C., F.G.S., Director, Geological Survey Department, Mysore State, Bangalore.

146. RAO, C. V. HANUMANTHA, M.A., Professor of Mathematics, Panjab University, Lahore.
147. RAO, H. SRINIVASA, M.A., D.Sc., Assistant Superintendent, Zoological Survey of India, Kaiser Castle, Benares Cantt. (1937).
148. RAO, K. RANGADHAMA, D.Sc. (Madras and London), Reader in Physics, Andhra University, Guntur. (1937).
149. RAO, L. RAMA, M.A., F.G.S., Professor of Geology, Central College, Bangalore. (1939).
150. RAY, B. B., D.Sc., Khaira Professor of Physics, Calcutta University, 92 Upper Circular Road, Calcutta. (1935).
151. RAY, J. N., D.Sc., Ph.D., F.I.C., Director of Production (Drugs and Dressings), Office of the Director-General of Supply, Medical Division, New Delhi. (1935).
152. RAY, SIR P. C., Kt., M.A., Ph.D., D.Sc., F.R.A.S.B., Emeritus Professor of Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta.
153. RAY, P. R., M.A., Khaira Professor of Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta.
154. RAY, R. C., D.Sc. (Lond.), F.I.C., Professor of Chemistry, Science College, Bankipore, Patna. (1943).
155. ROW, LT.-COL. R., M.D., D.Sc., I.M.S. (Hon.), 27 New Marine Lines, Bombay 1.
156. ROY, S. C., M.Sc., D.Sc., F.R.Met.Soc. (Lond.), Meteorologist, The Observatory, Alipore, Calcutta. (1940).
157. ROY, S. K., Ph.D., Professor of Geology, Indian School of Mines, Dhanbad. (1940).
158. SAHA, M. N., D.Sc., F.R.S., F.R.A.S.B., Palit Professor of Physics, Calcutta University, 92 Upper Circular Road, Calcutta.
159. SARKAR, P. B., Dr. és Sc., A.I.C., Lecturer in Chemistry, Calcutta University, 92 Upper Circular Road, Calcutta. (1935).
160. SAVUR, S. R., M.A., L.T., Ph.D., Director, The Observatory, Colaba, Bombay. (1941).
161. SEN, B. M., M.A., M.Sc., I.E.S., Principal, Presidency College, Calcutta (Retd.), 16 Palm Avenue, Ballygunge, Calcutta.
162. SEN, H. K., M.A., D.Sc., D.I.C., Director, Indian Lac Research Institute, Namkum, Ranchi.
163. SEN, J. M., B.Sc., M.Ed. (Leeds), Dip.Ed. (Oxford), T.D. (London), F.R.G.S., Principal, Krishnagar College, Krishnagar. (1935).
164. SEN, N. R., D.Sc., Ph.D., Ghose Professor of Applied Mathematics, Calcutta University, 92 Upper Circular Road, Calcutta.
165. SENGUPTA, N. N., Ph.D., Professor of Psychology, Lucknow University, Lucknow.
166. SESHADRI, T. R., M.A., Ph.D. (Manchester), Vikrama Deo Professor and Head of the Departments of Chemistry and Chemical Technology, Andhra University, Guntur. (1942).
167. SETNA, S. B., M.Sc., Ph.D. (Cantab.), F.R.M.S., Professor of Zoology, Royal Institute of Science, Bombay; Pилоo Minar, 15 Walton Road, Apollo Reclamation, Bombay. (1943).
168. SEYMOUR SEWELL, LT.-COL. R. B., C.I.E., M.A., Sc.D., F.R.S., M.R.C.S., L.R.C.P., F.Z.S., F.L.S., Zoological Laboratory, Cambridge University, Cambridge. (1936).
169. SHAH, R. C., M.Sc., Ph.D. (Lond.), Professor of Organic Chemistry, Royal Institute of Science, Bombay. On deputation to Government of India as Development Officer (Antigas) in the Supply Department, 3006 Ventikoppal Main Road, Mysore. (1941).
170. SHARIF, M., D.Sc., Ph.D., Entomologist, Haffkine Institute, Parel, Bombay. (1939).
171. SHORRT, LT.-COL. H. E., C.I.E., M.D., Ch.B., D.T.M. & H., D.Sc., I.M.S., Inspector-General of Civil Hospitals, Assam, Shillong. (1936).
172. SIDDIQI, M. R., M.A., Ph.D., Professor of Mathematics, Osmania University, Hyderabad (Deccan). (1937).
173. SINGH, B. K., M.A., Sc.D., F.I.C., I.E.S., Professor of Chemistry, Allahabad University, Allahabad.
174. SINGH, B. N., M.Sc., D.Sc., Irwin Professor of Agriculture, University Professor of Plant Physiology and Head of the Institute of Agricultural Research, Benares Hindu University. (1941).

175. SINTON, LT.-COL. J. A., V.C., O.B.E., M.D., D.Sc., D.P.H., D.T.M., I.M.S., Malaria Laboratory, Horton Hospital, Epsom, Surrey, England.
176. SIRCAR, A. C., M.A., Ph.D., Professor of Chemistry, Presidency College, Calcutta (Retd.), Vill. and P.O. Suapur, via Baira, Dacca. (1937).
177. SIRKAR, S. C., D.Sc., Reader in Physics, Indian Association for the Cultivation of Science, 210 Bowbazar Street, Calcutta. (1942).
178. SOHONI, V. V., M.Sc., Superintending Meteorologist, India Meteorological Department, New Delhi. (1942).
179. SOKHEY, LT.-COL. S. S., M.A., M.D., D.T.M. & H., I.M.S., Director, Haffkine Institute, Parel, Bombay.
180. SONDLI, V. P., M.B.E., M.Sc., F.G.S., Geologist, Geological Survey of India, Calcutta. (1941).
181. SOPARKAR, M. B., M.D., B.Hy., 117 Khar, Bombay 21. (1937).
182. SPENCER, E., D.Sc., Ph.D., F.I.C., A.R.S.M., M.I.M.M., F.G.S., Consulting Chemist, Bird & Co., Chartered Bank Buildings, Clive Street, Calcutta.
183. SRIVASTAVA, P. L., Rai Sahib, M.A., D.Phil., Reader in Mathematics, Allahabad University, Allahabad. (1935).
184. SUBRAHMANYAN, V., D.Sc. F.I.C., Professor of Biochemistry, Indian Institute of Science, Bangalore.
185. SUKHATME, P. V., D.Sc. (Lond.), Ph.D., Statistician, Imperial Council of Agricultural Research, New Delhi. (1943).
186. SUR, N. K., D.Sc., Meteorologist, Alipore Observatory, Calcutta. (1938).
187. TAWDE, N. R., M.Sc., Ph.D. (Lond.), Lecturer in Physics, Royal Institute of Science, Bombay. (1942).
188. TAYLOR, MAJOR-GENERAL SIR JOHN, Kt., C.I.E., D.S.O., M.D., D.P.H., I.M.S., Director, Central Research Institute, Kasauli (Simla Hills).
189. TEMPLE, F. C., (Hony. Col.) A.F. (I.), C.I.E., V.D., A.D.C., 28 Victoria Street, London, S.W. 1. (1937).
190. TOSHNIWAL, G. R., D.Sc., Lecturer in Physics, Allahabad University, Allahabad. (1943).
191. TRIBEDI, B. P., M.B. (Cal.), D.B. (Lond.), Professor of Pathology, Medical College and Bacteriologist to the Government of Bengal, Calcutta. (1943).
192. UKIL, A. C., M.B., M.S.P.E., Tuberculosis Research Officer, All-India Institute of Hygiene and Public Health, Calcutta. (1935).
193. VACHELL, E. T., M.A. (Cantab.), F.G.S., F.Inst.P., Senior Geologist (India), Burmah Oil Company, Dighoi, Assam. (1942).
194. VENKATARAMAN, K., M.S.Tech., Ph.D., D.Sc., Director, Bombay University Laboratories of Chemical Technology and Textile Chemistry, Bombay. (1939).
195. VENKATESACHAR, B., Rao Bahadur, M.A., F.Inst.P., Ambika Vilas, Bull Temple Road, Basavangudi, Bangalore.
196. VIJAYARAGHAVAN, T., Ph.D. (Oxon), Reader in Mathematics, Dacca University, Ramna, Dacca.
197. VISWANATH, B., Rao Bahadur, C.I.E., F.I.C., F.C.S., Director, Imperial Agricultural Research Institute, New Delhi.
198. WADIA, D. N., M.A., B.Sc., F.G.S., F.R.G.S., F.R.A.S.B., Mineralogist to the Ceylon Government, Torrington Square, Colombo.
199. WARE, F., C.I.E., F.R.C.V.S., I.V.S., Animal Husbandry Commissioner with the Government of India, Simla.
200. WEST, W. D., M.A. (Cantab.), Geologist, Geological Survey of India, 27 Chowringhee, Calcutta.
201. WHEELER, T. S., D.Sc., Ph.D., F.R.C.Sc.I., F.I.C., F.Inst.P., M.I.Chem.E., State Chemist, State Laboratory, Upper Merrion St., Dublin, Eire.
202. YAJNIK, N. A., M.A., D.Sc., A.I.C., Chief Chemist, Tata Chemicals Ltd., Mithapur, Kathiawar, J. & D. Ry. (1940).

HONORARY FELLOWS.

1. APPLETON, E. V., M.A., D.Sc., F.R.S., Secretary, Department of Scientific and Industrial Research of Great Britain, London.
 2. BAILEY, E. B., F.R.S., Director-General, Geological Survey of Great Britain, Exhibition Road, South Kensington, London, S.W. 7.
 3. BOHR, NIELS, N.L., 15 Blegdamsvej, Copenhagen.
 4. BOWER, F. O., Sc.D. (Cantab.), LL.D., F.R.S., Emeritus Professor of Botany, Glasgow University, 2 The Crescent, Ripon, Yorks.
 5. CHRISTOPHERS, SIR RICKARD, Kt., C.I.E., O.B.E., M.B., Brevet-Colonel, I.M.S. (Retd.), 186 Huntingdon Road, Cambridge.
 6. DIELS, LUDWIG, Director-General of the Botanical Garden and Museum, 7 Königin Luise Strasse, Berlin-Dahlem, Germany.
 7. DONNAN, F. G., F.R.S., Formerly Director, Sir William Ramsay Laboratory, University College, 23 Woburn Square, London, W.C. 1.
 8. EDDINGTON, SIR ARTHUR, D.Sc., LL.D., F.R.S., Plumian Professor of Astronomy and Experimental Philosophy, Cambridge University, Cambridge.
 9. EDMUNDS, CHARLES W., A.B., M.D., Professor of Pharmacology and Therapeutics, University of Michigan Medical School, Ann Arbor, Michigan, U.S.A.
 10. EINSTEIN, ALBERT, N.L., Princeton University, New Jersey, U.S.A.
 11. FISHER, R. A., Sc.D., F.R.S., Galton Professor in the University of London.
 12. GOODRICH, E. S., M.A., D.Sc., F.R.S., Linacre Professor of Zoology and Comparative Anatomy, University Museum, Oxford.
 13. GREENWOOD, MAJOR M., D.Sc., F.R.C.P., F.R.S., Professor of Epidemiology and Vital Statistics, London School of Tropical Medicine and Hygiene.
 14. HOLLAND, SIR THOMAS H., K.C.S.I., K.C.I.E., D.Sc., F.R.S., Principal of the University of Edinburgh.
 15. HOPKINS, SIR FREDERICK GOWLAND, Kt., M.A., D.Sc., N.L., F.R.S., Sir William Dunn Professor of Biochemistry in the University of Cambridge.
 16. KEITH, SIR ARTHUR B., M.D., F.R.C.S., LL.D., F.R.S., Buckston Browne Farm, Downe, Farnborough, Kent, England.
 17. LAWRENCE, E. O., Radiation Laboratory, California University, Berkeley, U.S.A.
 18. MARSHALL, SIR GUY A. K., C.M.G., F.R.S., Director, Imperial Institute of Entomology, London.
 19. ROBINSON, SIR ROBERT, D.Sc., F.R.S., Waynflete Professor of Organic Chemistry in the Dyson Perrins Laboratory, Oxford University.
 20. RUSSELL, SIR E. JOHN, D.Sc., F.R.S., Director, Rothamsted Agricultural Experimental Station, Harpenden, Herts, England.
 21. SHERRINGTON, SIR CHARLES S., O.M., G.B.E., N.L., F.R.S., Formerly Waynflete Professor of Physiology in the University of Oxford, Broomside, Valley Road, Ipswich, England.
 22. WENYON, C. M., C.M.G., C.B.E., F.R.S., Director-in-chief, Wellcome Bureau of Scientific Research, 183 Euston Road, London, N.W. 1.
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APPENDIX II.
COMMITTEES, 1944.
SECTIONAL COMMITTEES.

(1) 'Mathematics' Committee for Mathematics, Astronomy and Geodesy:—

	To serve until Dec. 31.
Principal B. M. Sen .. .. .	.. 1944.
Prof. P. C. Mahalanobis (Secretary and Convener) .. .. .	.. 1944.
Prof. C. V. Hanumantha Rao .. .. .	.. 1945.
Prof. N. R. Sen .. .. .	.. 1945.
Mr. T. P. Bhaskara Shastri .. .. .	.. 1946.
Prof. K. B. Madhava .. .. .	.. 1946.

(2) 'Physics' Committee for Physics and Meteorology:—

Dr. N. K. Sur .. .. .	.. 1944.
Dr. D. S. Kothari .. .. .	.. 1944.
Prof. S. K. Mitra (Secretary and Convener) .. .. .	.. 1945.
Dr. K. R. Ramanathan .. .. .	.. 1945.
Prof. H. J. Bhabha .. .. .	.. 1946.
Principal G. R. Paranjpe .. .. .	.. 1946.

(3) 'Chemistry' Committee for Pure and Applied Chemistry —

Dr. J. K. Basu .. .. .	.. 1944.
Prof. B. C. Guha .. .. .	.. 1944.
Prof. J. N. Mukherjee (Secretary and Convener) .. .. .	.. 1945.
Dr. K. G. Naik .. .. .	.. 1945.
Prof. Mata Prasad .. .. .	.. 1946.
Prof. T. R. Seshadri .. .. .	.. 1946.

(4) 'Engineering Sciences' Committee for Engineering, Metallurgy, Electro-technics and kindred subjects:—

Dr. Gilbert Fowler .. .. .	.. 1944.
Mr. D. Hendry .. .. .	.. 1944.
Principal H. P. Philpot .. .. .	.. 1945.
Dr. N. K. Bose (Secretary and Convener) .. .. .	.. 1945.
Mr. E. S. Pinfold .. .. .	.. 1946.
Mr. F. N. Mowdawalla .. .. .	.. 1946.

(5) 'Geology' Committee for Geology, Palaeontology, Mineralogy and Geography:—

Dr. M. S. Krishnan .. .. .	.. 1944.
Mr. J. B. Auden .. .. .	.. 1944.
Mr. B. Rama Rao (Secretary and Convener) .. .. .	.. 1945.
Mr. V. P. Sondhi .. .. .	.. 1945.
Sir Cyril S. Fox .. .. .	.. 1946.
Mr. W. D. West .. .. .	.. 1946.

(6) 'Botany' Committee for Pure and Applied Botany, Forestry and Agronomy:—

Prof. S. P. Agharkar (Secretary and Convener) .. .. .	.. 1944.
Rao Bahadur G. N. Rangaswami Ayyangar .. .. .	.. 1944.
Prof. S. L. Ajrekar .. .. .	.. 1945.
Dr. A. C. Joshi .. .. .	.. 1945.
Prof. M. O. P. Iyengar .. .. .	.. 1946.
Prof. K. C. Mehta .. .. .	.. 1946.

(7) 'Zoology' Committee for Pure and Applied Zoology and Anthropology including Ethnology:—

	To serve until Dec. 31.
Khan Bahadur M. Afzal Husain	1944.
Prof. R. Gopala Aiyar	1944.
Prof. G. S. Ghurye	1945.
Dr. S. L. Hora (Secretary and Convener)	1945.
Dr. D. N. Majumdar	1946.
Prof. P. R. Awati	1946.

(8) 'Physiology' Committee for Animal Physiology, Pathology, Bacteriology, Psychology and other Medical and Veterinary subjects:—

Mr. F. Ware	1944.
Lt.-Col. S. S. Sokhey	1944.
Prof. N. N. Sen Gupta	1944.
Dr. B. B. Dikshit	1945.
Dr. K. V. Krishnan	1945.
Dr. A. C. Ukil (Secretary and Convener)	1945.
Dr. G. Bose	1946.
Dr. R. B. Lal	1946.
Dr. C. G. Pandit	1946.

THE NATIONAL INSTITUTE OF SCIENCES OF INDIA.

Receipts and Payments Account for the year ended 30th November, 1943.

RECEIPTS.		Rs.	A. P.	PAYMENTS.		Rs.	A. P.
To Balance brought forward ..	..	54,928	10 10	By Salaries and Allowances to Staff ..	..	2,126	2 9
" Members' Admission Fees ..	..	800	0 0	" Printing Circulars, Notices, etc. ..	..	78	11 3
" Subscriptions ..	..	5,917	0 0	" Publications, Reports, etc. ..	..	3,020	2 0
" Subscriptions in advance ..	..	32	0 0	" 'Indian Science Abstracts', ..	..	2,751	14 6
" Compounding Fees ..	..	193	0 0	" Contributions to other Science Aca- ..	..	996	0 0
" Contributions towards publication of ..	..	50	0 0	" demies under Rule 19 ..	..	689	8 0
" 'Indian Science Abstracts' ..	..	389	10 3	" Honoraria, etc. for preparing abstracts ..	..	452	0 6
" Sale of Authors' extra copies and ..	..	130	0 0	" for 'Indian Science Abstracts', ..	..	179	10 6
" Sale of 'Indian Science Abstracts' ..	..	1,613	5 6	" Postage ..	..	50	0 0
" Interest on Investments ..	..	258	0 0	" Stationery ..	..	600	0 0
" Grants towards publication of Papers ..	..	6,000	0 0	" Audit Fee ..	..	0	8 0
" Grants-in-aid— ..	..	1,000	0 0	" Rent of Office ..	..	157	9 0
Government of India ..	..	7,000	0 0	" Advance to Staff ..	..	60	11 6
Universities ..	..	12	1 0	" Miscellaneous Expenses ..	..	48,400	
Miscellaneous Receipts ..	..			" Bank Charges ..	..	
				" Cash and Other Balances— ..	..	
				Investments— ..	Rs.		
				31% G.P. Notes 1842/43 5,000			
				31% " 1854/55 5,000			
				31% " 1865 6,500			
				31% " 1879 2,000			
				31% " 1900/01 8,100			
				4% Loan 1960/70 .. 17,000			
				3% Defence Bonds 1946 4,800			
						48,400	
				At cost ..	49,135	13	10
				With Imperial Bank of India— ..			
				On Savings Bank ..			
				Account .. 2,384	1	6	
				On Current Account 8,630	6	0	
				In hand ..	11,014	7	6
					10	8	3
TOTAL ..	..	71,323	11 7	TOTAL ..	..	71,323	11 7

Examined with the Books and Vouchers and found in accordance therewith.

PRICE, WATERHOUSE, PEAT & CO.

Chartered Accountants,
Registered Accountants.

Auditors.

CALCUTTA,
7th December, 1943.

APPENDIX IV.

BUDGET ESTIMATES.

	1942-43 Estimates.	1942-43 Actuals.	1943-44 Estimates.
	Rs.	Rs.	Rs.
<i>Ordinary Receipts.</i>			
Subscriptions	6,400	5,949	6,000
Interest	1,650	1,613	1,600
Contributions towards publication of 'Indian Science Abstracts' ..	50	50	50
Sale of publications including 'Indian Science Abstracts'	200	520	250
Grants-in-aid from Universities ..	1,000	1,000	1,000
Grants-in-aid from Government of India	6,000	6,000	6,000
Grants towards publication of papers ..	..	258	300
Miscellaneous Receipts .. .. .	..	12	..
Contributions from Opening Balance ..	2,725	..	3,800
	<u>18,025</u>	<u>15,402</u>	<u>19,000</u>
<i>Extraordinary Receipts.</i>			
Admission Fees	416	800	352
Compounding Fees .. .. .	..	193	..
	<u>416</u>	<u>993</u>	<u>352</u>
<i>Ordinary Payments.</i>			
Salaries and Allowances	2,000	2,126	1,500
*Publications other than 'Indian Science Abstracts', and Circulars	7,000	3,099	8,000
Publication of 'Indian Science Abstracts'	5,000†	2,752	5,000
Honoraria, etc. for preparing abstracts for 'Indian Science Abstracts'	1,000	689	1,000
Contributions to co-operating Academies under Rule 19	1,200	996	1,200
Postage	600	452	600
Stationery	100	180	200
Audit Fees	50	50	50
Travelling	250	..	500
Office Rent	600	600	600
A.R.P. Expenses	75	..	100
Miscellaneous Expenses (including Bank charges)	150	218	250
Balance credited to General Fund ..	..	4,240	..
	<u>18,025</u>	<u>15,402</u>	<u>19,000</u>
<i>Extraordinary Payments.</i>			
Funding of Admission Fees and compounding fees	416	993	352

* Additional provision has been made to cover the increased cost of paper and publications.

† This sum is set apart for completing 'Indian Science Abstracts' for 1938 and 1939.