COL HSN SASTRY

INSTITUTE OF ARMAMENT TECHNOLOGY
GIRINAGAR, PUNE 411 025

HSNS/AW/89

20 Jan 89

Respected Sir,

Enclosed herewith a copy of Souvenir brought out at the 54th Annual Conference of the Indian Mathematical Society, conducted by Department of Mathematics, University of Poona during Dec 27-30 1988. This contains an obituary of Prof BS Madhava Rao. This is for your kind information please.

Wishing you a very happy New Year

Yours sincerely

HSNSastry

Shri V Narayana Rao
(Formal Director, DLRL)
128, 28th Cross, 7 Block
Jayanagar,
Bangalore-560 082



54th ANNUAL CONFERENCE OF THE INDIAN MATHEMATICAL SOCIETY

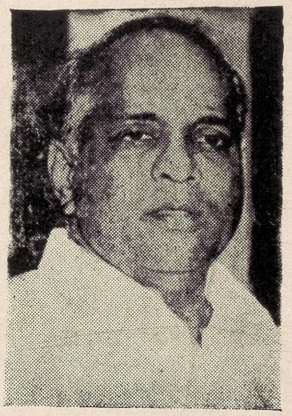
DECEMBER, 27-30 1988

Department of Mathematics
UNIVERSITY OF POONA,
PUNE-411007.

CHIEF MINISTER

सत्यमेव जयते

MAHARASHTRA



Mantralaya, Bombay 400 032

Date : 31st Oct. 1988

MESSAGE

I am pleased to know that Indian Mathematical Society of Pune University is holding the 54th Annual Conference from December 27 to 30, 1988. I send my warmest greetings to the delegates from all over the country and abroad. I wish the conference every success.

Sd./-
(Sharad Pawar)

MESSAGE

Yash Pal

CHAIRMAN

December 13, 1988

DO. No. F. 1-9/88 (CM)

Dear Dr. Thakare,

Best wishes,

Yours sincerely,

Sd./-

(Yash Pal)

MINISTER OF STATE FOR
Education and Technical Education
Government of Maharashtra
Mantralaya, Bombay 400 032

Date : 15th December, 88.

MESSAGE

I am happy to known that the 54th Annual Conference of the Indian Mathematical Society is proposed to be held at the Department of Mathematics, University of Poona, from December 27 to 30.

The Science of Mathematics was well-developed in India even in ancient times and we had mathematicians like Varah Mihir, Leelavati, Bhaskaracharya, Arya Bhatt etc., who made tremendous contributions and developed this science. Mathematics is thus our proud possession and heritage. In today's world of electronics and computers, where exactitude in myriad calculations is required, mathematics plays vital role.

I wish all success to the deliberations in your Annual Conference.

Sd./-
(Prof. Javed Khan)

V. N. GADGIL, M.P.
General Secretary

ALL INDIA CONGRESS COMMITTEE (I)
24, Akbar Road, New Delhi - 110 011.

December 6, 1988.

MESSAGE

I am happy to learn that the Department of Mathematics, University of Pune is holding the 54th Annual Conference of the Indian Mathematical Society from 27th to 30th December, 1988 at Pune.

The Society has done commendable work and it is a great occasion when prominent mathematicians from all over the world will be attending the Conference.

I congratulate the organisers on this occasion and send my good wishes for the success of the Conference.

Sd./-
(V. N. GADGIL)

PROF. K. B. POWAR
M.Sc., Ph.D.
Vice-Chancellor

Shivaji University
Kolhapur

Date : December 16, 1988

MESSAGE

Dear Prof. Thakare,

I am happy to note that many distinguished mathematicians from India and abroad are joining the 54th Annual Conference of the IMS (Indian Mathematical Society) at the Department of Mathematics, Poona University (December 27-30, 1988). I am sure that the deliberations will be of great benefit to the participants.

I wish you all success in the organization of this IMS Conference.

Sd./-
(K. B. Powar)



Dr. VASANT GOWARIKER
Secretary

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
Department of Science & Technology
Technology Bhavan, New Mehrauli Road,
New Delhi - 110 016.

MESSAGE

I am glad to learn that the 54th Annual Conference of the Indian Mathematical Society, being organised at Pune during December 27-30, 1988.

I do hope that the prominent mathematicians taking part in the meeting will, among other things, also spend sometime pondering over ways and means to identify potential and promising mathematicians from among our school/college students and suggest practical ways of helping them groom into first rate mathematicians. This would, in my view, be a fitting tribute to the memory of Srinivasa Ramanujan whose birth centenary was recently celebrated.

I send you my best wishes on the occasion and for your conference.

Sd./-
(Vasant Gowariker)

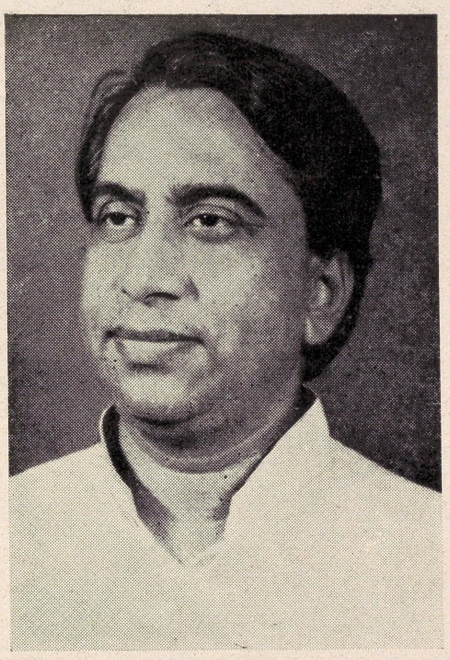
FOREWORD

During last two years, there is a spurt of activity pertaining to symposia/ seminars/workshops at the Department of Mathematics besides the usual teaching and research. In May–June, 1987, there was a 4-week All India Summer Institute devoted to "Discrete Mathematics and Its Applications" with myself as the Director. It was followed by "Ramanujan Birth Centenary Year International Symposium on Analysis from December 26 to 28, 1987 and I was the convener. This was immediately followed by the Platinum Jubilee Session of the Indian Science Congress Association from January 7 to 12, 1988 with myself as the Local Sectional Secretary. And now we have the 54th Annual Conference of the Indian Mathematical Society from December 27 to 30 1988

The frequency of such activities certainly did put strain on our resources. However, our concerted efforts have somehow succeeded in finding new sources of support. I am happy to state that the response was many fold than what it was earlier. In this endeavour many friends extended spontaneous and substantial help. It would be difficult to list all of them. I thank all the Donors/ Advertisers/University authorities/Colleagues and Friends who have helped us in our attempts to make the delegates of 54th Annual IMS Conference comfortable. We also thank CSIR, UGC, NBHM, DRDO, Govt. of Maharashtra, Pimpri-Chinchwad Municipal Corporation, the University of Poona, MACS, NIBM, for their financial support and/ or other facilities.

PUNE – 411 007.

N. K. Thakare
Local Secretary and Lokmanya
Tilak Professor of Mathematics



Mr. Kamalkishor Kadam,

Mr. Kamalkishor Kadam, Minister of Education and Technical Education, Government of Maharashtra and the Chief Guest for the Inaugural Function of the 54th Annual Conference of IMS.

* Born on 29th October, 1945 in a small village (Limbgaon) in Nanded District of Maharashtra.

* Was a meritorious student right from his School days. Well versed in Music and Painting besides being a voracious reader of books.

* Passed B.E. and then M. Tech from the Indian Institute of Technology, Powai Bombay,

* Languages known: Marathi, Hindi, English, Russian.

* Founded a renowned educational institute called "Mahatma Gandhi Mission" that has several educational complexes at Aurangabad, Bombay and Nanded.

* Founded a medical complex called "Gandhi Mission Hospital".

* Member of the Executive Council, Senate of Marathwada University. (1976-1979).

* Honarary Director of the Postgraduate Centre of Marathwada University at Nanded.

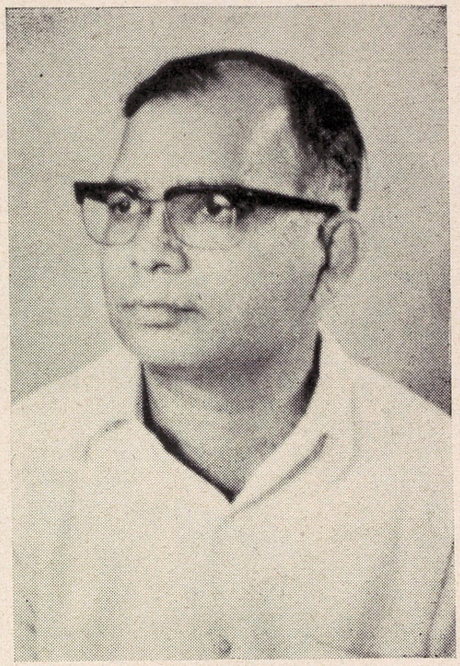
* Member of the Executive Committee of Maharashtra State Board for Secondary Education, Pune.

* Member of District Planning Commission, Maharashtra State Transport Board, and associated with several Committees of the Govt. of Maharashtra.

* Vice-president, Nanded Zilha Parishad (1972-74 and 1979-80).

* Member of the Maharashtra Legislature (1980-85) and (1985-).

* Elected unopposed as the Deputy Speaker of the Maharashtra Legislative Assembly on 21st March 1985.



Prof. M. K. Singal, President, IMS.

Professor M. K. Singal, President of the Indian Mathematical society was born on 10th November 1932 and has a very bright academic and research career to his credit.

* Recipient of an All India Scholarship for three years (1945-48).

  Passed B.A.(Hon) from Delhi University with 89% marks and standing second in the University (1948).

* Recipient of the 'Bholanath Gold Medal' of the University of Delhi (1948).

* Recipient of the All Indian postgraduate scholarship for the year (1948-50).

* Awarded Union Territories Scholarship for higher studies abroad (1962).

* Published 75 research papers and 15 articles of general interest and has authored several books.

* Guided successfully Ten Ph.D. students.

* Research interests : General Topology, Differential Geometry and Mathematics Education.

* Widely travelled -: University of Illinois, USA (1963-64), UK (1972, 1979. 1986), Canada (1974), Italy (1981), Bangladesh (1982), Czechoslovakia (1986)

* Organized several national and international symposia/seminars/conferences, and also many Summer Institutes/workshops etc.

* Fellow of the Institute of Mathematics and its Applications, U.K.

* Fellow of the National Academy of Sciences, India, Vice-President (1980-82), Council Member (1978-86)

* General Secretary of the Indian Science Congress Association (1983-86). President of the Mathematics Section (1976-77) Member of the Executive Committee (1979-82, 83 — to present day). Council Member (1982-83).

* General Secretary of the IMS (1985-1988), Council Member (1969-77). Editor, Mathematics Student (1971-77).

* Vice-President of Indian Society for History of Mathematics since 1978.

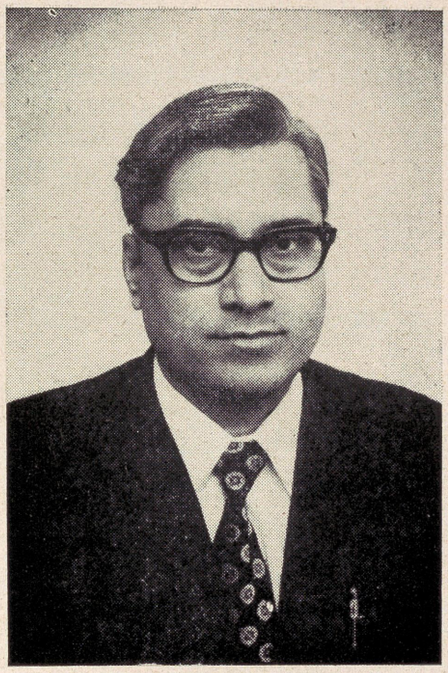
* Council Member, Mathematical Association of India.

* Secretary, Mathematical Sciences Trust Society since 1974.

* Member, UGC Mathematics Panel since 1985. UGC National Lecturer 1985-86.

* Member of the Editorial Board of Mathematical Education (UGC sponsored journal), of Gnanabh, of Ranchi University Math. Journal, of Mathematics Forum, of Mathematics Teacher (India) and of the World Scientist.

* Worked on several committees of CSIR, UGC, NCERT Indira Gandhi open University, Andhra University, Delhi University, M. D. Universitv Rohtak, M. S. University Baroda, Gorakhpur University, Rahelkhand University, Bdreilly, Banares Hindu University, Aligarh Muslim University, Dibrugarh University, Kurukshetra University, Panjabi University, and Meerut University.



Professor R. G. Takwale

Vice-Chancellor, University of Poona.

* Born on 11th April 1933, Professor Takwale is the Patron of the 54th Annual Conference of the I.M.S.
* Recipient of Prof. G. R. Paranjpye prize in Physics for first rank at B.Sc. (Hon.), (1956).
* Awarded Ph.D. (1965) from Moscow State University.
* Visiting Professor in University College, London (1976), York University (1976), U. K. and visiting scientist in Eotvos Lorand University, Budapest Hungary (1968).
* Vice-Chancellor of Poona University for two consecutive terms from 23rd Aug. 1978 to 22nd Aug. 1984 and now for the third time from 15th Nov. 1988.
* UGC National Fellow (1984-85), (1987-88).
* Co-ordinator, Maharashtra Open University (1985-87).
* Chairman, Institute of Open Education, University of Poona from 1st May, 1988.
* Member of American Institute of Physics, ISCA, Indian Physics Association, Indian Council of Cultural Relations, Fellow of the Maharashtra Academy of Sciences.
* Wide teaching and research experience. Specialized in Elementary Particles, Cerenkov Radiation, Physics Education and Energy Studies.
* Many research articles published. Author of four books.
* Professor Takwale is widely travelled and has visited USSR, Hungary, United Kingdom, USA, Canada and Germany.

AN OBITUARY



Professor B. S. Madhava Rao

(29 May 1900 — 8 June 1987)

The nation as a whole and the mathematical community in particular have lost a disciplined mathematician of excellence. Professor Madhava Rao's research spanned a period of half a century. He obtained his D.Sc. degree on Bom's Field Theory in 1938 from University of Calcutta. His research interests were Born's non-linear field theory, classical and wave mechanics, plane cubic curves, application of Group theory to Theoretical physics. He had collaborated with Dr. H. J. Bhabha and Dr. Harishchandra. Madhava Rao's Algebra and rings are wellknown. He was the president of the Silver Jubilee Conference of the IMS held in 1959 at Allahabad. He was the first Lokmanya Tilak professor of Mathematics at the university of Poona during 1960-65. He was the recipient of the Ramanujan Prize in 1965. He was a fellow of many learned Societies such as Indian Academy of Sciences, INSA etc.

A man of great insight, discipline and creativity, he kept up his interest in various fields of Mathematics till his death.

MAY HIS SOUL REST IN PEACE

A GLIMPSE OF THE 4th IMS CONFERENCE HELD IN POONA

[Source JIMS Vol. XV (1924)]

REPORT OF THE FOURTH CONFERENCE

OF THE

INDIAN MATHEMATICAL SOCIETY

HELD AT POONA, IN APRIL, 1924.

The Fourth Conference of the Indian Mathematical Society was held in the Fergusson College, Poona, from the 15th to 18th of April 1924. Arrangements for a successful session were made by a strong Reception Committee* with Dr. R. P. Paranjpye as President. The Conference was attended by a large number of members and other mathematicians from different parts of India.

Opening Ceremony

On the 15th April, the opening ceremony commenced at 9 a.m. in the Amphitheatre of the Fergusson College, where, in addition to the delegates, many distinguished ladies and gentlemen had gathered in response to the invitation of the Reception Committee. The proceedings began with music by girls and boys of the local Gayan Samaj.

The President of the Reception Committee, Dr. R. P. Paranjpye, welcomed the delegates in a short speech and read a message from His Excellency the Governor of Bombay.

The Hon'ble Mr. B. V. Jadhav, M.A., LL.B., Minister for Education, Bombay, then opened the Conference in a short speech.

Principal P. V. Seshu Aiyar, Joint Secretary of the Indian Mathematical Society, next read a brief Report on the work and progress of the Society since its foundation in 1907.

Lastly Mr. Balakram, M.A., I.C.S., the President of the Society, delivered his Presidential Address.

The proceedings closed with a vote of thanks to the Hon'ble the Minister for Education, proposed by Prof. V. B. Naik, and the distribution of *pan-supari*.

WELCOME ADDRESS BY DR. R. P. PARANJPYE, PRESIDENT OF THE RECEPTION COMMITTEE

Ladies and Gentlemen:

Allow me to offer you a hearty welcome to Poona on the occasion of the Fourth Mathematical Conference. I know that April is not the best season of the year at Poona as it is uncomfortably hot, though perhaps some of you may consider it a welcome change. Again the Colleges and other educational institutions for which Poona is known throughout India are now in vacation, and you will have to content yourselves with only seeing the buildings; while, the students, being away and mostly engaged in their examinations, will not have the great advantage of seeing distinguished mathematicians from all parts of India, so that even a sight of them may help somewhat to remove the almost universal opinion of the student world that mathematics is an invention of Satan for the special purpose of teasing the young student. I hope however that our proceedings will be as successful as those of the previous Conferences and that you will overlook any deficiency in the arrangements made for your reception.

I am afraid Poona cannot boast of any first-rate mathematician in its ancient history, though our Presidency is not without its great mathematical names. The great Bhaskaracharya is believed to have been an inhabitant of East Khandesh; the celebrated family of astronomers which produced Keshav Daivadna and Ganesh Daivadna, the author of *Grihalaghav,* came from Konkan; and many others can be similarly mentioned. In recent times, Poona has had many celebrities of at least good local reputation. Prof. Kero Laxman Chhatre was the revered leader of the earlier generation of educated Indians in our Presidency, and was a keen student of mathematics and astronomy. His name is still a great tradition. Shankar Balkrishna Dikshit was a scholar of high repute; his work on the history of Indian Astronomy is a masterpiece, (unfortunately for his fame among *savants* written in Marathi), worthy of being translated into European languages. Baba Joshi Rode and Bapudev Shastri, were well-known astronomers from these parts. Bal Gangadhar Tilak, renowned in other fields, was a great Sanskrit scholar and mathematician, who brought his mathematical knowledge to bear upon his Sanskrit learning in the discussion of the question of the antiquity of the Vedas. Let us hope that now, when the Eastern intellect is being leavened by intimate contact with Western science, our town will produce

at no distant date mathematicians who will take rank with Brahmagupta and Bhaskaracharya of old, or Ramanujan of modern days.

Mathematics has rightly claimed an essential place in all schemes of education. "None ignorant of geometry enter here!" was written on the portals of the famous Greek Philosopher's School. We claim for mathematics the foremost place as an instrument for sharpening the intelligence, for the development of the reasoning power and for the advancement of all other sciences. The last may immediately appeal to the multitude, while pure mathematics may not be exactly popular; but a science which does not or cannot put its methods and conclusions in mathematical language can be only said to be half developed. India ought to take its proper place in the advancement of mathematics with other countries in the world. We cannot content ourselves with merely learning what other countries produce, but we must add our own quota to the general stock of knowledge. Gatherings like the present are a means of focussing public opinion on topics of importance and bringing together kindred spirits.

In these days, it is not possible for one man to range over all the branches of mathematics; each worker has to confine himself to some one branch or corner of the subject, and his outlook has consequently a tendency to grow too limited and narrow. It is desirable therefore that workers should have opportunities of coming into contact with men who are working in similar though not exactly identical fields. The very range of papers to be read before this Conference will be of use in broadening the outlook of mathematical students, and I hope that every member who has taken the trouble to come to this Conference will find that not only has he benefited others by the papers he reads, but that he himself has also acquired some new points of view or has had his own interest in other branches freshly revived.

I thank you for acepting our invitation and coming over to Poona for this Conference. Let me, in particular, express our deep obligation to the Hon'ble Mr. Jadhav who has taken the trouble to come down from the cool heights of Mahabaleshwar to open our Conference. Mr. Jadhav was a brilliant student of mathematics in his College days, and though he may have lost contact with the subject in the course of his other activities for the last thirty years, still he is sure to retain a soft place in his heart for the subject which won for him academical distinction. As a Minister of Education, I am sure he will be interested in this subject which forms a main part in every educational curriculum.

SPEECH OF THE HON'BLE MR. B. V. JADHAV, M.A., MINISTER OF EDUCATION, BOMBAY.

Dr. Paranjpye, Mr. Balakram, Ladies and Gentlemen:

I am very obliged to you, Dr. Paranjpye, for inviting me to this Conference and for giving me a warm reception and for the nice words you have spoken about me. I am very happy to associate myself with the work of this Conference.

When I received the invitation to open this Conference, my first impulse was to decline the honour as I was conscious of my unworthiness. But Dr. Paranjpye would take no refusal and I was too weak to resist. And this is the reason why I am amongst you.

A tradition has been growing round this Conference in the matter of the personality of its opener. He is either a Governor or a Member of the Executive Council or a Minister, in short a member of the Government of the Province. Some of these have been very keen mathematicians of outstanding ability, though one I think declared his distaste for the science. I am afraid I cannot enrol myself in either of these classes. It will be too presumptuous on my part to lay a claim to the first; and to wish to go under the second will amount to calling in question the veracity of the Chairman of the Reception Committee who will most certainly throw some University calendars in my face. I had some liking for mathematics in my school and college days; not because I loved it, but because I knew that it was a very paying subject.

Unfit as I am to take part in your serious deliberations I can do nothing better than tell you a story. It is of American manufacture. The maker of a popular car advertised it as "going on its reputation." A buyer came to the shop and wanted to make a trial run. The storekeeper took the steering wheel and the assistant turned the handle, and the car started. But it came to a stop in about a hundred yards. The storekeeper got down to see what the matter was and raised the bonnet. There was no engine; it was previously removed for some defect which had been detected. The storekeeper seized the occasion and called the attention of the would-be customer to the absence of the engine and said:— 'Look here, the car was going on its reputation.' The same is unfortunately the case with me. I have been living on my past reputation.

It is very sad indeed for an individual, as well as for a nation, to live on reputation. The glorious past is very fascinating and many take a genuine delight in gloating over it. But if the old tradition is broken, if the present is not worthy successor of the past, if today is not an advancement on yesterday, all the lofty descriptions and praises of the past serve only to lay bare the deficiencies and the degeneration of the present. Let India be proud of her past; but that pride will be justified only when she is bent upon improving her proud heritage. Let us try to be worthy heirs of our worthy forefathers.

India is known as a land of mathematicians, and I am proud to be among so many worthy sons of India who have been carrying on the torch of advanced mathematics and adding to the heritage of the world. Mathematics is the real bond of universal brotherhood. Whatever the difference of language and culture may be, mathematical signs and symbols and formulae are the same everywhere and understood by all the world.

S. S. V. P's Late Karmaveer

Dr R. P. Ghogrey Science College, Dhule.

Salient Features of our College :

* The only separate Science College under Poona University jurisdiction.
* Leaders in qualitative and quantitative higher education.
* Principal subjects at B.Sc. level : Physics, Chemistry, Zoology, Botany, Geography Mathematics, Computer Science.
* M.Sc. classes in Organic Chemistry, Botany, Physics and Zoology.
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DR. BHAIDAS PATIL
President

B. M. PATIL
Principal

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Pune - 411 014.
Phones : 668764 (Off.), 664850 (Res.).

UNIVERSITY OF POONA

A PROFILE

N. S. Gopala Krishnan

The University education of Western type began in India with the establishment of the Universities of Bombay, Calcutta and Madras in 1857. Afterwards, till the end of 19th century, encouragement was given to private institutions to start schools and colleges. With the passing of the Curzon act in 1904, Universities were given specific powers to add teaching in additon to their affiliation and examination powers. However Bombay University remained only as an affiliating University for a very long time.

There was a growing demand for the establishment of an additional University in the Bombay Presidency. A committee was established to look into the needs of establishing more Universities in this region. Poona was the centre of the Government during the mansoon and was also a centre of cultural, social and political activity. As a result of strong and public upsurge, Government of Bombay appointed a committee under the Chairmanship of Right Honourable Dr. M. R. Jayakar to report on the question of establishment of a University for Maharashtra. The committee submitted its report, but no action could be taken until after the second world war was over. A popular Congress ministry came into power in 1946 and B. G. Kher, the Province's Chief Minister and the education minister took keen interest in the matter. A bill was processed for the establishment of Poona University as well as Gujarat and Karnataka Universities in the state legislature. The first Poona University act was passed on 18th February, 1948. On 15th April, 1948, Dr. M. R. Jayakar assumed office as the first Vice-Chancellor. Some time elapsed in forming the statutes and constituting the University bodies. The University of Poona was formally declared as a corporate body on 10 Feb., 1949 and this date is celebrated as the University foundation day every year. At the suggestion of Shri. C. Rajagopalachari who was the Governor general of India at that time, the then Government headed by Shri B. G. Kher decided to hand over this beautiful Campus to the University of Poona in 1950.

Some of the first few teaching departments started in 1950 were the departments of Sanskrit, Marathi, Chemistry, Botany, Zoology, Politics, Experimental Psycology, Mathematics and Statistics, Geography and Physics. Each department consisted of essentially a single faculty member, namely the Head of the department with some Research Fellows for assistance.

To nurture and nourish the University from the beginning, the University had the good fortune of having illustrious men as Vice-Chancellors. These include Dr. M. R. Jayakar (1948–56), Dr. R. P. Paranjpye (1956-59), Prof. D. G. Karve (1959-61), Mahamahopodhyaya D. V. Potdar (1961-64), Dr. Kakasaheb alias N. V. Gadgil (1964-66), Dr. D. R. Gadgil (1966-67), Dr. H. V. Pataskar (1967-70), Dr. B. P. Apte (1970-72), Dr. G. S. Mahajani (1972-74) and others.

The University has grown on all fronts because of the massive assistance of the University Grants Commission during the last 30 years ranging from the Second to Seventh plan period. At present it has about 30 post graduate departments spread over the Faculties of Arts, Science, Engineering, Law, Mental, Moral and Social Sciences, Commerce and Management. It has 288 faculty members of which 56 are Professors, 87 Readers and 148 Lecturers. The departments are at the various stages of development. There are four centres of advanced study in Sanskrit, Economics, Linguistics and Solid State Physics and Material Science. There are five departments under the DSA programme namely the departments of Chemistry, Physics, Statistics, Mathematics and Zoology. On the arts side, a number of departments have ULP programme namely the departments of Politics and Public Administration, Sociology, Sanskrit and Philosophy. A few departments are under the COSIST programme such as Chemistry, Zoology and Statistics. The total enrollement of students at these departments is 3725 out of which 1783 students are at the Master's level and 1163 students are taking certificate and diploma courses and 245 students are for the MBA Course. The number of foreign students is about 94. There are about 418 students who have registered for the Ph.D. and 262 students for the M.Phil. degree in the various faculties.

The growth at the undergraduate level is also exponential. In 1950 the University had 18 affiliated colleges with an enrollment of 8500 students. Now

there are 188 affiliated colleges with an enrollment of 1,25,000 students. The number of constituent and recognised research institutions also has gone up from 4 in 1950 to 40 at present.

There are at present 8 Hostels in the Campus, seven for gents and one for ladies with a capacity of 540 and 205 students respectively.

The University library is named after its first Vice-Chancellor Babasaheb Jayakar and it has nearly 3,50,000 books and periodicals. It provides facilities for Xerox, microfilming, microfilm reading and documentation of research.

The University publishes two journals, one devoted to Humanities and Social Sciences and the other to Sciences. The University has so far published 380 monographs, text books and other scholarly publications. The University faculty publishes on an average 1000 research papers a year.

The University has a Health Centre of its own and looks after the medical needs of the staff and their families and the students on the campus.

The University has provided residential quarters for both teaching and non-teaching staff on the campus. There are about 122 teachers and 319 non-teaching staff residing on the campus. The University also has a Guest House, a Refectory, a Faculty House, two canteens and a Consumer's Stores on the campus.

Poona has a rich tradition in music, dance and drama. Marathi stage is highly developed and there is a galaxy of eminent musicians, and dancers from this region. The University has recently started a course in dance, music and drama as an activity of the Centre of Performing Arts.

Several research chairs have been instituted taking into account the specific research requirements in particular fields. The Educational Media Research Centre (EMRC), The Development Communications Research Project (DCRP) and the Institute of Open Education (IOE) are functioning very efficiently.

Although relatively young, being 39 years old, the Poona University has made rapid progress in various fronts and is considered as one of the leading Universities of the country.

With Best Compliments From :

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HOMAGE TO INDIAN MATHEMATICIANS

Wrangler G. L. Chandratreya

The Indian Mathematical Society is organising its 54th Annual Conference in the University of Poona from 27-30 December, 1988. Poona has a long association with the Indian Mathematical Society since the nineteen twenties. The office and the library of the Indian Mathematical Society were located at the Fergusson College, Poona in the early years. The accounts of the Society were maintained in Poona and I was performing the duty of Treasurer of the Society from 1944 to 1959.

On this occasion, it would be appropriate for us to pay homage to the past Indian mathematicians. India has been in the fore front of scientific development from ancient times. The scientific spirit prevelant in the Vedic times is one illustration of high mathematical knowledge. The Geometrical knowledge of those times is evident from the Sulba Sutras (600 BC). A clear statement of the right angled theorem (usually called Pythogoras Theorem), calculation of the value of $\sqrt{2}$ by geometrical method, classification of geometrical figures on the basis of angles and sides have been mentioned in these Sutras. Moreover, expression of very large numbers by means of indices to ten, use of fractions, concept of numerals, the decimal place value with the introduction of zero are all definite contributions of Indian Mathematics.

Mathematical treatises appeared on the scene as early as in 800 BC to 200 BC. Some of these works are *Surya-Siddhantha, Bouthayan Aapastamb Sulba sutra* and *Bakshali hastalikhit*. Later *"Aryabhattia"* by the great mathematician "Aryabhatta" came out in 476 AD. Varahamira wrote in 505 AD, *"Brihatjatak" "Brihatsanhita"* and *"Panchasidhantika"*.

The next luminary was Bhaskara the first who wrote *Mahabhaskaria* and *Laghubhaskaria*. Brahmagupta wrote around 625 AD *Brahmasprutasiddhanta, Khandkhaddyaka* and *Dhyanagrihaupdesh*. Later, Sridhar, Mahaveer, Manjul, Pruthdunk Swami, Shripati were to follow Aryabhatta the second.

The next brilliant star to appear in the mathematical horizon was Bhaskara the second. The growth of algebra with particular reference to symbols of operation, quadratic equation, rule of false position, indeterminate equation of the first and second degree, permutations and combinations, progressive series Pascal's triangle and binominal theorem were treated by Bhaskaracharya. Some of his books which appeared in the scene in 1150 were *"Lilavathi", Karankutuhal, Beejganit, Goladdhyaya,* and *Siddhantashiromanie.*

This indicates a knowledge of Calculus, Binomial equation, Trigonometry, Sine tables under the name *"Jyotapattee,* value of Pi, etc., and it is quite apparent that Indian mathematicians had knowledge about these things much earlier than western scholars like Newton and Leibniz. In Algebra, what is known as Pell's equation was known to Bhaskaracharya and could be called Bhaskhara equation. Brahmagupta's theorem relating to the determination of diagonals of cyclic quadrilateral and method for construction of quadrilaterals may be regarded as remarkable achievements of Indian geometry. During the later period, a galaxy of mathematicians did considerable work in Astronomy. It may be noted that during this period, external invasion and disturbed conditions in India, slowed down the advancement of knowledge. We quote some of the works done in this period but most of these were annotations of earlier work. These include *Ganitamritalahari* by Ramakrishna (1339), *Manoranjan, Leelavathiteeka* by Ramakrishna Deva (1350), *Ganit Koumudi* by Narayana (1356) *Laghumanasteeka* by Parameswar (1430), *Ganitamritasagari* by Gangadhar (1432) *Chintamanee* by Lakshmeedas (1500), *Navsangraha* by Neelakanta (1500), *Beejganit* by Dnyanaraj (1503), *Ganitalaghav, Ganitmanjiree* and *Budhivilasina* by Ganeshdaivadnya (1545). *Ganitamritakapika* by Suryadas (1545) *Sadratnamala* by Shankar Varman, *Pateesar* by Muneeshwar (1608), *Manavsulbasutra* by Manu, *Siddhanttatvavivek* by Kamalakar (1658), *Krampaddhati* by Prabhuman Somayajee (1773).

The later period upto the end of the 19th Century was a period of stagnation till Srinivasa Ramanujan appeared on the scene and re-established the greatness of Indian mathematics.

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DEPARTMENT OF MATHEMATICS — A PERSPECTIVE

T. T. RAGHUNATHAN

The combined department of Mathematics and Statistics was established in 1950, only a year after the inception of the University of Poona. De Finibus Cicero observed that the beginnings of all things are small. How true it is with the Department of Mathematics! Dr. D. P. Banerji was the first head of the Department and later, for quite a few years the department had one faculty member in Dr. V. S. Huzurbazar. He had then only one room at his disposal. From this humble beginning the department has been steadily marching along on its path of development. During these formative years, thanks to the initiative of Dr. Huzurbazar, many stalwarts such as Wrangler Kerkar, Wrangler Chandratreya, Dr. (Mrs.) Apte, Professor A. B. Shah, Professor A. R. Kamat contributed their might in the progress of the Department.

To commemorate the birth centenary of Lokmanya Bal Gangadhar Tilak, a prestigeous chair in Mathematics was instituted in his name. Late Dr. B. S. Madhava Rao was the first to adorn the chair during the period 1960-65. Wrangler V. V. Narlikar, the grand old man of Relativity in India, followed Dr. Rao in 1966 and gave a dynamic leadership in Relativity and Cosmology till his retirement in 1973. This prestigious chair remained vacant from 1973 to 1985.

The second phase, so to say, of development started when the combined department of Mathematics and Statistics was bifurcated and the present department of Mathematics came into existence in 1978 as a separate entity. The eminent mathematician Professor S. Abhyankar took over as Head and Professor in the Department. At that time, the Department had only eight faculty members. It was upgraded as a Department of Special Assistance (DSA) by the UGC from 1985 with a provision of Rs. 21 lakhs as grant. At present, the department has faculty positions of 4 Professors 6 Readers and 5 Lecturers. There are about 40 students at the M.Phil/Ph.D. level and about 110 students at the M.Sc. level. The Department basically imparts instruction at the Postgraduate level and conducts research activities leading to M.Phil and Ph.D. degrees. The thrust area identified by UGC under the DSA scheme is Algebra/Analysis with applications.

The Department has varied spectrum of specializations. Dr. N. K. Thakare, who is the present Lokmanya Tilak Professor of Mathematics and who headed the Department from 1985 to 1988, specializees in Lattice Theory, Geometry of Banach Spaces, Operator Theory and Classical Analysis and has more than hundred publications to his credit. Dr. N. S. Gopalakrishnan who is Professor and Head, at present under rotation is interested in Homological algebra and applications of Algebra to Coding Theory and Cryptography. Dr. A. D. Joshi is interested in Operators on Hilbert Spaces. Dr. T. T. Raghunathan's interests are in Non-Archimedean Analysis. Bornology, entire function spaces and more recently in Graph Theory. Dr. V. Sreenivasulu conducts researches in Non-Archimedean Analysis and the theory of entire functions. Dr. S. A. Katre works in Number Theory and Dr. D. M. Kulkarni specializes in Combinatorics and Algebraic Geometry. Dr. Nirupama S. Bhave is interested in Bornology. The faculty members publish papers in international and national journals. Many of us are on the editorial boards and are also reviewers for many Journals, as well as on the reviewer's panels of Mathematical Reviewers and Zentrablatt fur Mathematik.

The department is recognised as one of the best teaching departments in the country. Many students of the Department have made a name for themselves at the international level, Ravindra Kulkarni, Avinash Sathaye, Vasanti Bhat-Nayak, Kishor Marathe. Bhalchandra Phadke, S. Anantharaman, Suresh Kothari, Rajendra Gurjar, Shrikant Sabnis are a few of our students who have made a mark on the world scene in Mathematics. Keeping in mind the current demands and needs of the society, the department runs courses in Applicable Mathematics such as Computer Science. Lattice Theory, Graph Theory, Cryptography, Numerical Analysis, Discrete Mathematics, etc. The Department has acquired 6 personal computers (1PL/AT, 3PC/XT, 2PC.). The Department also provides many openings

such as Senior and Junior Research fellowships and Research Associateships. For the bright and keen post-graduate students, eight scholarships are provided under the DSA programme and also under the NBHM scholarship scheme.

Library is the backbone of any fruitful activity in Mathematics. The main library — Jayakar Library is rich with books and many old and new journals on Mathematics including the rare ones. Around 60 journals are being subscribed, though the escalating costs of publication are showing their ugly faces making us to discontinue subcription of some of the standard journals. Under the DSA programme, it has been possible to start a separate library for the department.

The Department has been organizing several seminars symposia, summer schools and workshops. On the occasion of the Birth Centenary of Ramanujan an International Symposium on Analysis was organized by the Department in December 1987. Many renowned mathematicians such as George Andrews, Richard Askey, R. P. Agarwal. Mourad Ismail, A. M. Mathai, M. A. Al-Bassam, Tonev Toma, M. Rahman, A. Sharma, H. M. Srivastava, H. P. Dixit and many others participated in this international event. The proceedings of the Ramanujan Symposium are to be brought out very soon. This International Symposium was followed by Platinum Jubilee Session of the Indian Science Congress Association in January 1988.

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They came at last
And more and more and more."

said the logician Lewis Caroll. We are hoping to build more and more to establish a school of eminence.

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संस्था दृष्टीक्षेपात १९८७–८८ ऑडीड वर्ग 'अ'

अधिकृत भागभांडवल रुपये २ कोटी

वसुल भागभांडवल रुपये १ कोटी ६ लाख

सभासद संख्या ३३०५ कर्ज मर्यादा रुपये २४ हजार

संस्थेतील ठेवी रुपये २१ लाख ठेवीवरील दिलेजाणारे व्याज १४ टक्के

बँकेतील गुंतवणूक रुपये २७ लाख डिव्हीडंडचा दर
नफा रुपये १२ लाख ११ टक्के

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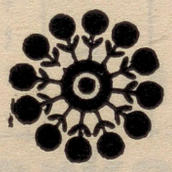

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श्री. मच्छिद्र मु. डांगे — सेक्रेटरी

श्री. संभाजी मा. फुरडे — खजिनदार

संचालक :– श्री. सदाशिव म. शिगाडे ✱ श्री. हामजू म. सय्यद, एम्. ए., बी. एड. ✱ श्री. राजाराम शं. गायकवाड ✱ श्री. मधुकर रं. गुरव ✱ श्री. गोविन्द म. बाबर ✱ श्री. जनार्दन न. पवार

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मा. मनोहरजी कोतवाल, गोदी व माथाडी कामगार नेते.



३३

दि. चाळीसगांव पिपल्स को-ऑप बँक लि.

चाळीसगांव (जळगांव)

– संचालक मंडळ –

१)	श्री. सोमनाथ चुनिलाल कळंत्री	प्रेसिडेंट
२)	श्री. सुरेश रामचंद्र स्वार	व्हा. प्रेसिडेंट
३)	श्री. काळुराम हजारीमल दायमा	संचालक
४)	श्री. रामचंद्र कोंडू वाणी	,,
५)	श्री. गुलाबचंद नेमीचंद जैन	,,
६)	श्री. बाबुराव श्रावण वाणी	,,
७)	श्री. रंगलाल उत्तमचंद छाजेड	,,
८)	श्री. सुरेशचंद्र बद्रीनारायण सोमाणी	,,
९)	श्री. कृष्णराव उत्तमराव देशमुख	,,
१०)	श्री. धर्मा शिवराम राखुंडे	,,
११)	श्री. तुकाराम सिद्दाप्पा गवळी	,,
१२)	श्री. रमेशचंद्र चंपालाल जैन	मॅनेजर

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१) श्री. धर्मराज शिवराम राखुंडे
२) श्री. के. के. ओसवाल ४) श्री. पवनशेठ कोठारी
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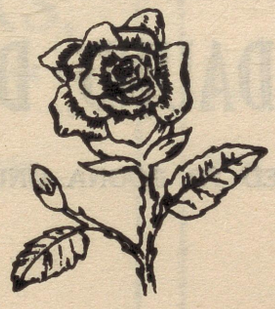

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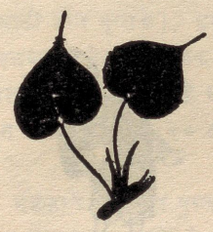

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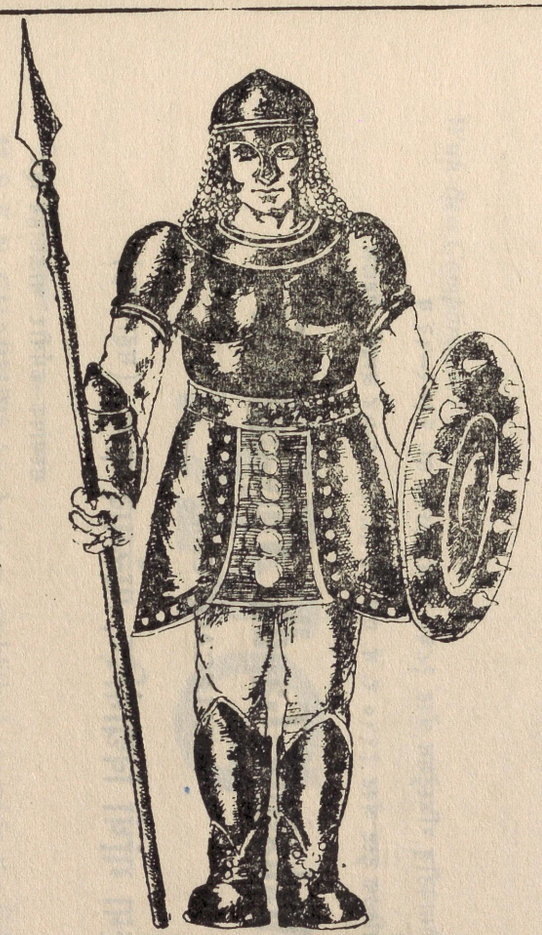

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(१) अध्यक्ष :- का. मा. अग्रवाल

(२) उपाध्यक्ष :- भि. का. वाघ

(३) खजिनदार :- नामदार पुष्पाताई हिरे
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(४) ज. सेक्रेटरी :- प्रशांत हिरे

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१२ ज्यु. कॉलेज

६ सिनीयर कॉलेज

१ लॉ कॉलेज

१ बी. एड. कॉलेज

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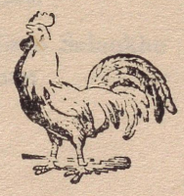

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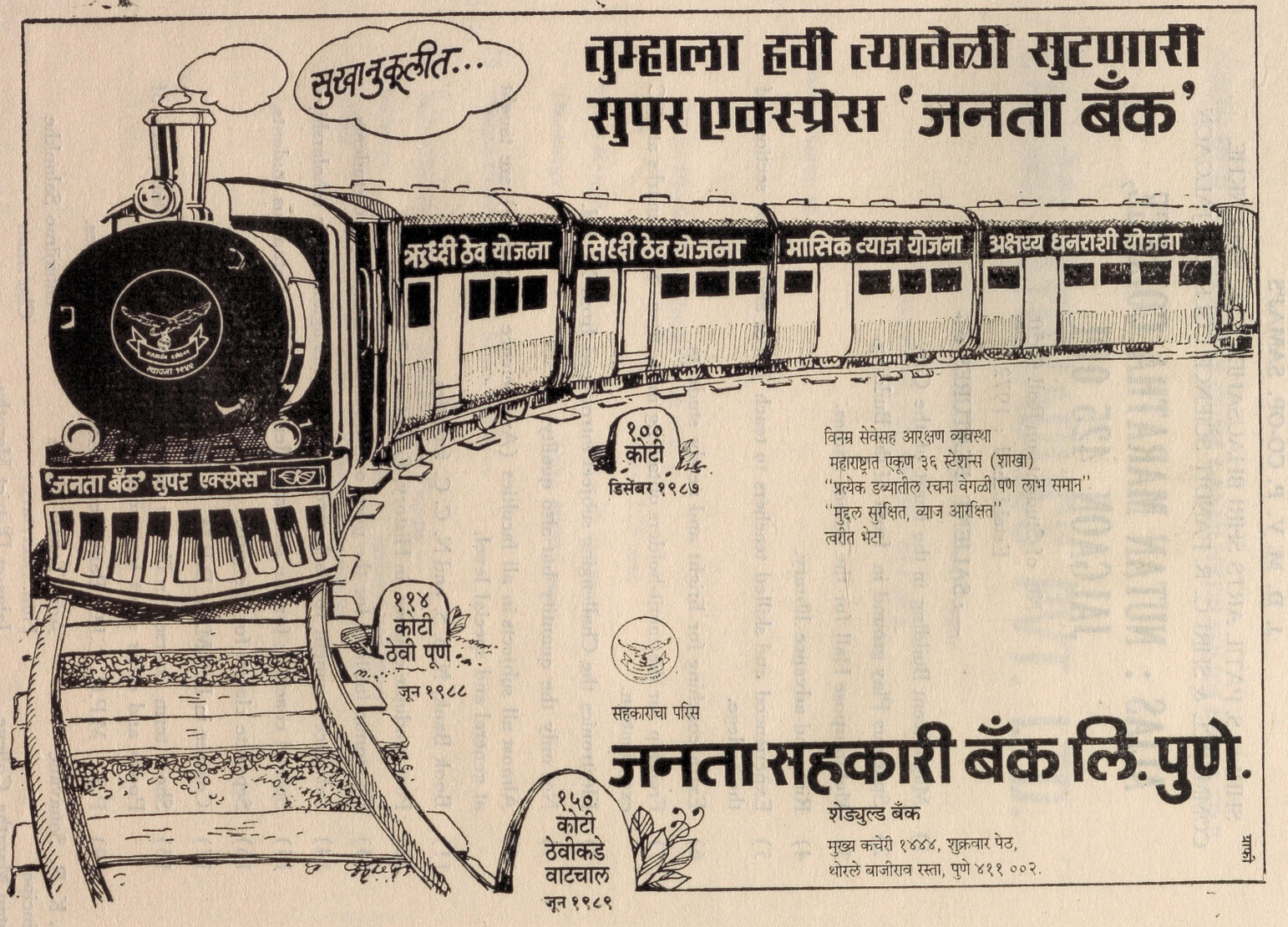
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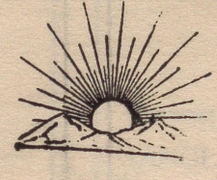



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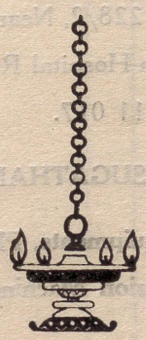

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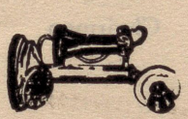

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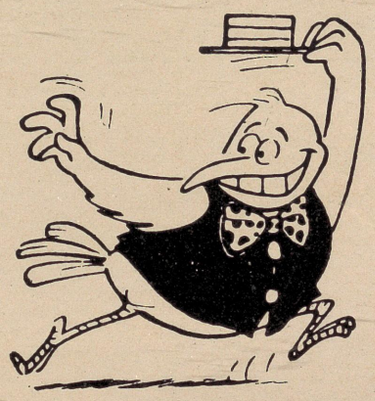

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