

BIBLIOGRAPHY AND REFERENCES: HOSHANGABAD SCIENCE TEACHING PROGRAMME

- 1. POLICY DIRECTIVES ON SCHOOL SCIENCE EDUCATION (Excerpts)**
 - 1.1 Education and National Development: Report of the Education Commission, 1964-66 (Kothari Commission).** NCERT. 1971.
 - 1.2 The Curriculum for the Ten-Year School - A Framework.** NCERT. 1975
 - 1.3 Teaching of Science: Report and recommendations of the National Seminar on Science Teaching.** Held at Bhopal, November 15-17, 1985. Eklavya. 1985.
 - 1.4 National Policy on Education - 1986.** Department of Education, MHRD, Govt. of India. May, 1986.
 - 1.5 National Curriculum for Elementary and Secondary Education - a Framework (Revised Version).** NCERT. 1988.
 - 1.6 'School Science for India of Tomorrow' - Symposium Report and Recommendations.** The National Academy of Sciences, India. Allahabad. May, 2000.
 - 1.7 National Curriculum Framework for School Education.** NCERT. 2000.
 - 1.8 Guidelines and Syllabi for Upper Primary Stage.** NCERT. 2001.
 - 1.9 Science and Mathematics Education for the Future.** Report on seminar-cum-workshop 'Content and Process of Science and Mathematics Education: From Present to the Future' organised by Department of Education in Science and Mathematics, NCERT at New Delhi during November 20-22, 1991. NCERT. 1991.

2 HSTP: HISTORY, PERSPECTIVE & OBJECTIVES: A REVIEW

- 2.1 होशंगाबाद विज्ञान शिक्षण कार्यक्रम - प्रमुख पड़ाव. HSTP – Year-wise list of major events. Eklavya. December, 2001.
- 2.2 **Hoshangabad Science Teaching Programme - a Note.** July 2000.
- 2.3 **Some attempts to change the pattern of Science Education in India.** Prof. Yash Pal, Tata Institute of Fundamental Research, Bombay. November, 1972.
- 2.4 **Science Teaching in Rural India - an experiment.** Prabuddha Ganguli. Fulcrum. January 1976.
- 2.5 **A Review of the Hoshangabad Science Teaching Programme.** Kishore Bharati group, Bankhedi, distt. Hoshangabad. July, 1977.
- 2.6 **The Hoshangabad Vigyan.** Delhi University Science Teaching Group, Friends Rural Centre, Rasulia and Kishore Bharti. Science Today, Dec 1977.
- 2.7 **Minutes of meeting held to consider the proposal to cover the entire district of Hoshangabad under the HSTP under the joint auspices of the NCERT and the Government of Madhya Pradesh.** Held at Regional College of Education, Bhopal on October 26, 1977.
- 2.8 **Evolving Systems for Introducing Innovations in School Education.** Proposal for district level testing of the HSTP. Department of Science, Regional College of Education (NCERT), Bhopal. February, 1978.
- 2.9 **District-level testing of the Hoshangabad Science Teaching Programme.** Note by Friends Rural Centre and Kishore Bharati. June, 1978.
- 2.10 **Evolving Systems for the Introduction and Diffusion of Educational Innovations.** Proposal for the creation of an Institute for Educational Research and Innovative Action in Madhya Pradesh. The Institute Founding Group in collaboration with the Kishore Bharati group. February, 1982.
- 2.11 **Summary record of the meeting held on 24.3.1982 under the Chairpersonship of Dr. M.S Swaminathan, Member, Planning Commission to consider the proposal for establishment of Institute for Educational Research and Innovative Action in Madhya Pradesh.** Planning Commission (Education Division). New Delhi. Undated.
- 2.12 **The Lessons of Change.** Shreekant Khandekar. India Today. July 15, 1984.
- 2.13 **The Hoshangabad Science Teaching Programme.** Kanaklatha Mukund. Economic and Political Weekly, October 15, 1988.
- 2.14 होशंगाबाद विज्ञान शिक्षण कार्यक्रम के प्रदेश स्तरीय प्रसार का प्रस्ताव - एकलव्य, Proposal for State level expansion of the Hoshangabad Science Teaching Programme. Eklavya. September 14, 1990.
- 2.15 **The Hoshangabad Science Teaching Programme.** Amitabh Mukherjee, Anil Sadgopal, P.K. Shrivastava and Vijaya S. Varma. Paper presented at the South Asian Conference on Education 'Education in the South Asian context. Issues and Challenges' at Delhi University, Delhi. 14-18 November, 1999.
- 2.16 'स्कूली तंत्र में हस्तक्षेप इतिहास के आइने में'. Anil Sadgopal. 'शिक्षा में बदलाव का सवाल'. Granthashilpi. Delhi. 2000.
- 2.17 'स्कूली शिक्षा का कार्यक्रम - होविशिका'. Sadhna Saxena. 'शिक्षा और जन आंदोलन'. Granthashilpi. Delhi. 2000.

3. HSTP: WORKING ASPECTS

- 3.1 होशंगाबाद विज्ञान शिक्षण कार्यक्रम - एक दस्तावेज. A collection of important orders, manuals and working documents of HSTP. Eklavya. 1996.
- 3.2 **Bal Vaigyanik.** Books for Classes 6, 7 and 8 published by M.P. Text Book Corporation.
Bal Vaigyanik Class 6, 2000
Bal Vaigyanik Class 7, 2001
Bal Vaigyanik Class 8, 1989 (under revision)
- 3.3 कैसे करवाएँ बाल वैज्ञानिक के प्रयोग. A public note regarding kit procurement and usage. Eklavya. November, 2001.
- 3.4 प्रश्न बैंक: होशंगाबाद विज्ञान शिक्षण कार्यक्रम. Question Bank – HSTP. Eklavya. 1997.
- 3.5 राष्ट्रीय शैक्षिक अनुसंधान एवं प्रशिक्षण परिषद् द्वारा तैयार विज्ञान पाठ्यक्रम तथा होशंगाबाद विज्ञान शिक्षण कार्यक्रम के पाठ्यक्रम की तुलना. A Comparative study of the NCERT and the HSTP science curriculum. Eklavya. June 1992.
- 3.6 **A Report of the Peer Review meeting on 'Mainstreaming of an Innovation: The Hoshangabad Science Teaching Programme.** Held in Hoshangabad, February 7-8, 2000. Eklavya. April 10, 2000.
- 3.7 **'Bal Vaigyanik' Revision - Processes and Issues : A discussion note.** Eklavya. February 7, 2000.
- 3.8 **Letter to Member Secretary, M.P. Text Book Standing Committee (also Director, SCERT) with a comparative analysis of 'Bal Vaigyanik' revised edition with the existing state textbook.** Eklavya. June 1, 2001.
- 3.9 कक्षा 6,7,8 के बाल वैज्ञानिक की विषय वस्तु का एक साथ अध्ययन. A note listing chapters in Bal Vaigyanik class 6, 7 and 8. Eklavya. June, 2001.
- 3.10 बाल वैज्ञानिक पाठ्यवस्तु एवं प्रमुख अवधारणाएँ. A Chapter-wise listing of major concepts and content of Bal Vaigyanik book of classes 6, 7, 8. Eklavya. June, 2001.
- 3.11 बाल वैज्ञानिक में सीखने के विविध रास्ते. A listing of various processes of science learning employed in 'Bal Vaigyanik'. Eklavya. June, 2001.
- 3.12 माध्यमिक कक्षाओं की बाल वैज्ञानिक पाठ्यपुस्तकों का कक्षा 9वीं के पाठ्यक्रम से संबंध. A note analysing linkage of class 9 curriculum with Bal Vaigyanik textbooks, Eklavya. December. 2001.
- 3.13 **Report on 3 workshops with high school and higher secondary school teachers to review class 9 and 10 Science curriculum and textbooks.** Held in Indore and Ujjain in December, 1998. Dr. Arvind Gupte, Indore. January, 11, 1999.
- 3.14 होशंगाबाद विज्ञान शिक्षण कार्यक्रम शिक्षक प्रशिक्षण. A draft manual on Teacher Training in the Hoshangabad Science Teaching Programme, Eklavya. Undated.
- 3.15 **A Report on conceptual Enrichment workshop for Resource Teachers.** Organised at Ujjain, July 3-12, 1996. Eklavya. October, 1996.
- 3.16 ' होशंगाबाद विज्ञान '. In-house bulletin of HSTP, 'Hoshangabad Vigyan' sample copy.
- 3.17 ' संदर्भ '. Resource Journal for teachers, 'Sandarbh' sample copy..

4. HSTP: EVALUATIONS, STUDIES AND REPORTS

- 4.1 **Hoshangabad Science Teaching Programme - A Note on Evaluation.** Submitted to the Expert Evaluation Committee set up by MHRD, Government of India. Eklavya. October 10, 1990. (Attached Reports 1 to 10 and Proposal dated below).
- 4.2 होशंगाबाद विज्ञान शिक्षण कार्यक्रम - मूल्यांकन के बिन्दु Hindi version of 'Hoshangabad Science Teaching Programme - A Note on Evaluation'.
- 4.3 **Report 1.** होविशिका के अन्तर्गत माध्यमिक शाला में प्रयोगनिष्ठ विज्ञान शिक्षण प्राप्त विद्यार्थियों की कक्षा 9 (सत्र 1976-77) में शैक्षणिक प्रगति और समायोजन का मूल्यांकन। A comparative study of performance in class 9 of 1976-77 of HSTP students. Kishore Bharati and Friends Rural Centre. December 15, 1977.
- 4.4 **Report 2.** कक्षा आठ की बोर्ड परीक्षा में होशंगाबाद, नरसिंहपुर, छिंदवाड़ा, बैतूल व खंडवा जिलों की माध्यमिक शालाओं के वर्ष 1980, 1982 व 1983 के अलग-अलग विषयों में प्राप्तांकों की तुलना। A comparative analysis of marks obtained by students in class VIII Board exam in districts of Hoshangabad, Narsinghpur, Chhindwara, Betul and Khandwa in years 1980, 1982 and 1983 in different subjects – Eklavya. Undated.
- 4.5 **Report 3.** कक्षा ग्यारहवीं के वर्ष 1982, 1983, 1984 व 1985 के परीक्षाफल में विभिन्न विषयों में प्राप्त औसत अंकों की होविशिका से पढ़े छात्रों की अन्य जिलों के छात्रों से तुलना। Comparison of performance in various subjects in class XI examination of years 1982, 1983, 1984 and 1985 of students who had studied under HSTP with students from other districts. Eklavya. Undated.
- 4.6 **Report 4.** 1986 की दसवीं कक्षा की हाईस्कूल परीक्षा में विज्ञान, गणित व हिन्दी में पास प्रतिशत की नर्मदा संभाग के पांचों जिलों की तुलना। Comparison of pass percentages in science, mathematics and Hindi in class X High School exam of 1986 across the five districts of Narmada division. Eklavya. Undated.
- 4.7 **Report 5, 6, 7, 8, 9 and 10.** दूरी मापना व दशमलव क्षमता परीक्षण द्वारा होविशिका व गैर होविशिका विद्यार्थियों का कक्षा 6, कक्षा 8 व कक्षा 9 का तुलनात्मक अध्ययन व होविशिका प्रशिक्षित शिक्षकों की क्षमता का अध्ययन। Comparative evaluation of length measurement and decimals capability in class 6, class 8 and class 9 HSTP and non-HSTP students and HSTP trained teachers. Eklavya. Undated.
- 4.8 मालवा क्षेत्र में कक्षा 9 में पहुँचे सामान्य विद्यार्थियों का कक्षा 6 से 8 में सिखाए गए विशिष्ट विज्ञान विषयवस्तु का परीक्षण - एक अध्ययन। A study on retention of specific science content areas covered in middle school syllabus amongst class XI children in high schools in Malwa region. Dr. Arvind Gupte. Eklavya, Ujjain. Undated.
- 4.9 **Evaluation of the Hoshangabad Science Teaching Programme - minutes of meeting** held at SCERT, Bhopal on April 21, 1983.
- 4.10 **Research Project Proposal for Evaluation of Hoshangabad Science Teaching Programme.** Prepared by Dr. S.K. Dani as follow-up to the meeting of April 21, 1983 and submitted to the SCERT for financial and administrative support.

- 4.11 **Final Report submitted by the Evaluation Committee constituted by the Department of Education, Ministry of Human Resource Development, Government of India to evaluate the HSTP.** Under the convenership of Prof. B Ganguly, Prof. and Head, Department of Education in Science and Mathematics, NCERT, DESM, NCERT, New Delhi, March 1991.
- 4.12 **Summary report of discussions held in SCERT, Bhopal on February 16, 1992 under the Chairpersonship of Shri S.P. Dube, Secretary, School Education and Director, SCERT with members of the Eklavya Group and the Hoshangabad Science Teaching Programme Evaluation Committee set up by the State Government under the Chairpersonship of Dr. G.S Mishra, Director, SISE, Jabalpur.** Eklavya. March 28, 1992.
- 4.13 **होशंगाबाद विज्ञान पर अध्ययन, मूल्यांकन व शोध प्रबंध।** A summary of studies, evaluations and research theses on HSTP. Eklavya. January, 2001. (Abstracts of 7 studies attached).
- 4.14 **होशंगाबाद विज्ञान पढ़ने वाले छात्रों की पी.एम.टी./पी.ई.टी./पी.पी.टी. की परीक्षाओं में स्थिति।** Comparative analysis of performance of students from Hoshangabad in P.M.T/P.E.T/P.P.T entrance examinations for years 1996, 1997 and 1998. Dr. Arvind Gupte. Eklavya. March, 1999.
- 4.15 **हरसूद शाला संकुल में वर्ष 1998 में कक्षा आठवीं उत्तीर्ण किए विद्यार्थियों का कक्षा 9वीं व 10वीं में परीक्षाफल का तुलनात्मक अध्ययन।** A comparative analysis of performance of HSTP and non-HSTP students passing Class VIII in Year 1998 in Harsud school complex, district Khandwa in Class IX and X examinations in Years 1999 and 2000 respectively. December, 2000.
- 4.16 **Performance in class VIII (year 2000) and Class IX (year 2001) of same cohort group across 15 high schools of Hoshangabad district.** Eklavya. October 22, 2001.
- 4.17 **Performance of students in class VIII exam in 2001 in Hoshangabad, Harda and other districts of M.P.** Eklavya. February, 2002.
- 4.18 **Report on Intensive Follow-up in some schools in Hoshangabad and Harda districts in March-April 2001.** Eklavya. July 2001.
- 4.19 **Evaluating Innovative Interventions in School Education - background note for a discussion in special context of Eklavya's programmes at Elementary Education Level.** Eklavya. January 19-20, 2001.
- 4.20 **Diffusion of Educational Innovations from Micro to Macro level.** Case study of Eklavya conducted by Department of Elementary Education, NCERT for MHRD, Govt. of India. NCERT. 2001.
- 4.21 **Hoshangabad Science Teaching Programme.** Excerpt from Eklavya Triannual Report. 1998-2001.
