CHAPTER VIII
REFERENCES & BIBLIOGRAPHY

8.1 Books
8.2 Journals and report
8.3 Ph.D thesis, Dissertation, Research papers
8.4 News papers
8.5 Electronic data
**Books**

8. Ghose and Chaube (Ed) : “Impact of science and Technology on India Society” , Naya Prakashan, Calcutta

**Journal and Report**

55. Faranak Joo lideh,Yeshodhana K (2008),“Commitment among high school Teachers in India “, Edutracks , Vol 7, No 10
63. Heemskerk I, Brink A,Volman M and Dam G (2005), “Inclusiveness and ICT and Education : a focus on gender ethnicity and social class” Journal of computer assisted learning” ,Vol 2, pp 11-16
64. HR (2005) : Teaching and Traning” Macmillan Press ltd UK
66. Kathleen V Hoover, Emesy and Bacceler and Burow (1995), Parental Involvement, European Trade Union Committee for education
75. Mandeep Kaur and SPK Dhillon(2011): “the role of education in making knowledge society” , Edutracks;Vol 10 No10, june, pp 17-20
76. Mandeep Kaur and SPK dhillon(2011):”The Role of Education in Making Knowledge Society” ,Edutracks, vol 10 no 10, June,pp 17-20

Anshuman Das (1998), Media And ICT In Education: Research Review Effectiveness Of Computer Assisted Learning Material

Bhardwaj, M.K., Kumar, Anil & Kulshreshtha, Manoj (2001), Effective Utilisation of Learning Resources at Study Centres of IGNOU, a Research Project sponsored by the IGNOU, New Delhi.

Anshuman Das (1998), Media And ICT In Education: Research Review Effectiveness Of Computer Assisted Learning Material

Bhardwaj, M.K., Kumar, Anil & Kulshreshtha, Manoj (2001), Effective Utilisation of Learning Resources at Study Centres of IGNOU, a Research Project sponsored by the IGNOU, New Delhi.

Chanan Chantahiem (2004), A Study of Availability And Utilization of Educational Media in Secondary Schools of Thailand, South Gujarat University, Surat


Indubala U Singh(1999), Environmental Education through Video-Instructional Package : An Exploration, M.Ed. dissertation, South Gujarat University, Surat


Munther Mohammed Zyoud (1999) , Development of Computer Assisted English Language Teaching for VIII Standard Students, CASE,MSU, Baroda


Pal Rajendra(2001), Audio-conferencing for Primary School Teachers- An Experiment with off timings of AIR, CIET of NCERT, New Delhi.
130. Pandey Chhaya (2002), A critical study of importance and usefulness of TV Educational Programme in the field of Education, Sapurnanand Sanskrit University, Varanasi.
134. Rathod Shailendra (2004), Identification of the gaps between the teaching styles of the teachers and the learning styles of the students at secondary level and exploring the possibilities of bridging these gaps through technology, M.Ed. dissertation, MSU, Baroda.
140. Sarangi Dibakar(2000), Exploring cognitive map formed due to educational video viewing among learners, Ph.D. Thesis, MSU, Baroda
144. Shital Yadav (2000), A Study of the effectiveness of the computer software for students of standard I. The M.S. University of Baroda, Baroda.

Newspaper

151. The times of India-Tiens city(2013 March 21) “Fresh Focus on secondary Education”, p-4

**Electronic Data**  

154. Dr Sugata Mitra Head Research and Development NIIT New Delhi sugatam@niit.com
156. http://www.schooleducation.kar.nic.in/DESERT.htm
162. http://www.avehi.org
166. http://www.grammangal.org/
179. www.eirc.edu.org
182. www.teachersteachingteachers.org
<table>
<thead>
<tr>
<th>Annexure No.</th>
<th>List of Annexure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Questionnaire for School</td>
</tr>
<tr>
<td>2.</td>
<td>Questionnaire for Parents</td>
</tr>
<tr>
<td>3.</td>
<td>Questionnaire for Students</td>
</tr>
<tr>
<td>4.</td>
<td>Map of Location of schools in Pune city</td>
</tr>
<tr>
<td>5.</td>
<td>List of schools for study</td>
</tr>
</tbody>
</table>
Annexure -1

Questionnaire for School Management/Principal/Computer Teacher

Pl. tick (√) wherever applicable

1. Name of your school: _______________________________________

2. Address of your school: ______________________________________

3. Recognition/Affiliation of school is: (  ) Aided/Granted (  ) Central Board
   (  ) Private

4. Composition of school: (  ) Pre – Primary (  ) Primary (  ) Secondary
   (  ) Higher Secondary

5. Respondent’s title: (  ) Computer teacher (  ) Lab instructor

6. Educational qualification of the respondents: (  ) Graduate (  ) Post-Graduate
   (  ) Others

7. Professional Qualification: (  ) MCSE (  ) MCSD (  ) MSC-IT
   (  ) Other please specify –

8. Age of respondent: (  ) Up to 30 years (  ) More than 30 years

9. Years of service of respondent: yrs

10 Year your school started Computer education:

11 From which class student start learning computer education in your school –
Infrastructure at your school

12 Number of computer lab in school:
13 Number of computer in school for students:
14 Number of computers connected to internet:
15 Do you feel that your school has sufficient computer resources? Yes/No/Maybe
16 Sources of getting software for school
   1. (    ) Purchased market product
   2. (    ) Created by a teacher
   3. (    ) Contract Basis

17 Authorities designing Computer curriculum
   1. (    ) Concerned Board
   2. (    ) Designed by school teacher itself

[The following questions refer to computers both in the lab and regular classroom]

18 Total number of computer teacher in school:
19 Nature of appointment of computer teacher in school:
20 Frequency of computer periods per week:
21 Following areas affect the teachers’ familiarity with computer technologies

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Area</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Years of teaching</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>School status</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

22 Percentage of the budget allocated for computer department: (    ) less than 2%
23 Students of which grades use computers in the classroom/lab-
   KG, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

24 Subject learned by students up to 10th class
   (Multiple Choice):
   1. ( ) keyboard operation
   2. ( ) mouse operation
   3. ( ) MS- Word
   4. ( ) e-mail exchange
   5. ( ) Web surfing
   6. ( ) drawing
   7. ( ) MS-Excel
   8. ( ) setting up sites
   9. ( ) programming (ex. C, C++)
   10. ( ) algorithms
   11. ( ) making presentation by Power Point
   12. ( ) There are no defined specific skills or topics to be acquired by children.
   13. Other: ______________________________________________

25 Do you attend seminars or other events related to computers?

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Training Programme</th>
<th>Number of teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Workshop on computer</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Orientation Program in computers</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Training Program</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Not attended</td>
<td></td>
</tr>
</tbody>
</table>
26 Do you visit computer stores and exhibitions-

1. ( ) visiting stores
2. ( ) visiting exhibitions

27 Teaching Methodologies used

<table>
<thead>
<tr>
<th>Teaching Methodologies</th>
<th>YES</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD presentations in Class Room through monitor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet usage while teaching in class-room</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Using LCD in class-room</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparing through CD or DVD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparing through internet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>By reading computer magazines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>By reading Internet magazines</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annexure -2

Questionnaire for Parents

Pl. tick (√) wherever applicable

1. Name: ______________________________________________
2. Child Name: ________________________________________
3. Age: 25-35 ☐ 35-45 ☐ 45-55 ☐
4. Educational Qualification: ___________________________
5. Your Annual Income: a) 1 Lac to 2 Lac ☐
b) 2 Lac to 3 Lac ☐ c) 3 Lac to 5 Lac ☐
d) 5 Lac to 10 Lac ☐ e) More than 10 Lac ☐
6. Occupation:______________________________
7. Pl. tick (√) the following

<table>
<thead>
<tr>
<th>Sr.no</th>
<th>Use of computer</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Do you use computer for personal/professional purpose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Is computer education must for your children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>You have Computer at home for children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>If No, are you thinking to buy for children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Do you buy latest software and hardware for your child to upgrade his/her technical skills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Having computer would lead to better utilization of children’s time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Whether school is teaching computer as per the practical needs considering the interest of children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Do you help your child in gaining knowledge about computer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Does computer education has positive effect on students academic achievement from elementary school to college</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Do you visit computer stores and exhibitions with your children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Does your child use computer more to play games than to gain knowledge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Is your child using computer to download movies , games ,</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
13. Are your children aware of latest updates in hardware and software

9. What expectations do you have toward computer education?

[Multiple Choice]:

( ) To help children to pursue their future career
( ) To increase children’s social interest
( ) To enhance children’s knowledge
( ) To enhance students with their communication ability
( ) To help children to survive in modern society
( ) To nurture children’s attitude and their power to think
( ) To help them better understand truth, good, and beauty
( ) To complete the different projects.
( ) I. Q Test

10. Whether your child learns more about computer through their –
(Who is more effective?) **Rank accordingly**

Parents ☐ Teachers ☐ Friends ☐ Relatives ☐ Books ☐

11. Your suggestion about the computer education in school?

_____________________________________________________

Thank you! Your participation in this survey is much appreciated.
Annexure -3

Questionnaire for School Students

Pl. tick (√) wherever applicable

School Students

1. Name: ______________________________________________

2. Age: (yrs)

3. Name of your school: ___________________________________

4. Board of your school: ( ) CBSE ( ) SSC ( ) ICSE

5. I use a computer at - ( ) Home ( ) School ( ) Cyber Café
   ( ) Friends ( ) Other Place

6. In case of difficulty in using computers – who helps you most
   (Rank accordingly)

   1. □ Parents  2. □ Teachers  3. □ Friends

7. If you use the computer, please indicate the frequency and type of use:

<table>
<thead>
<tr>
<th>Purpose (Other than Internet usage)</th>
<th>(1) Do Not use</th>
<th>(2) 1 hour per week or less</th>
<th>(3) 2-5 hours per week</th>
<th>(4) More than 5 hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Do Homework and other school assignments/projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Play computer games</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) Databases</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) Spreadsheets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) Word processors</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f) Downloading S/W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
g) Browsing

h) Playing online games, chatting etc

8. Please indicate whether you use the Internet:

<table>
<thead>
<tr>
<th>Purpose</th>
<th>(1) Do Not use</th>
<th>(2) 1 hour per week or less</th>
<th>(3) 2-5 hours per week</th>
<th>(4) More than 5 hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) I use the Internet at Home</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) At Friends House</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) At School</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) At Cyber-Cafe</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) I do not use the Internet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. Please indicate your view on the usefulness of the computer (including Internet Access) at the following locations:

<table>
<thead>
<tr>
<th>Usefulness of the computer</th>
<th>(1) Not needed</th>
<th>(2) Of Limited Value</th>
<th>(3) Essential</th>
<th>(4) Very Essential</th>
</tr>
</thead>
</table>
10. From your experience, please indicate the usefulness of the computer and Computer applications:

<table>
<thead>
<tr>
<th>(1) Not needed</th>
<th>(2) Of Limited Value</th>
<th>(3) Occasionally</th>
<th>(4) Always</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Information retrieved on the Internet for schoolwork</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Information accessed on CD/DVD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) Classroom presentations by teachers (PowerPoint/CDs/DVDs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) Online Interaction with other students for homework/school work</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) FrontPage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f) MS-Office</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>g) Any Other (Please state)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

11. Please indicate the subject for which you use the computer

Specify Subject: ________________________________

<table>
<thead>
<tr>
<th>(1) Not needed</th>
<th>(2) Occasionally required</th>
<th>(3) Frequently required</th>
<th>(4) Essentially required</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS - Word</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Thank you! Your participation in this survey is much appreciated.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MS –Excel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS-Access</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS-PowerPoint</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>References from the</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submit assignments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>via email</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Online discussion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with teacher</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annexure -4

Location of schools in Pune considered for survey as a part of primary data collection

Source : http://www.mapsofindia.com/maps/maharashtra/pune.htm

Map 2: Pune city map with location of schools

Note – The • represents the location of the schools
Annexure -5

List of schools in Pune considered for survey as a part of primary data collection

1) GYANDA PRASHALA, NEAR TOO SABHAGRAH, ERANDWANE, PUNE
2) ABHINAV VIDYALAYA HIGH SCHOOL, KARVE ROAD PUNE - 04 PHONE : 25431018
3) ADARSHA SCHOOL 1367 SHUKRAWAR PETH PUNE - 02
4) AHILYADEVI HIGH SCHOOL FOR GIRLS 393 SHANIWAR PETH PUNE - 30 PHONE : 24450690
5) ROSERY INTERNATIONAL SCHOOL, NEAR MUMBAI-BANGLORE HIGHWAY, WARJE
6) VIMAL VIDYA KUNJ, WARJE NAKA, PUNE - 52
7) SHRIMATI SHANTA BAI MAHAVIDYALAYA SRI DANGAT-PATIL VIDYALAYA, WARJE _MALWADI, PUNE
8) DNAN PRABHODINI CHATRA PRABHODINI 510 SADASHIV PETH PUNE – 30
9) JOG SCHOOL, MAYUR COLONY, KOTHRUD PUNE - 29
10) KALMADI SHARMARAO HIGH SCHOOL 55/57, DR KETKAR RD, ERANDWANE PUNE - 04
11) ALL SAINTS HIGH SCHOOL PHONE : 5813969 CHURCH ROAD, KHADKI, PUNE - 03
12) BAPUSAHEB PAWAR PRARTHAMI K SHALA 380 D BHAWANI PETH PUNE. PHONE : 6434413
13) BHARTIYA MARATHI VIDYALAYA 166 SHUKRAWAR PETH PUNE. PHONE : 4453625
14) DIGHE KAMAL MADHUBAN S'NAG PUNE. PHONE : 5539703
15) GURU NANAK HIGH SCHOOL 192/93 GANESH PETH PUNE – 02
16) MODERN V SCHOOL 503 SHANIWAR PETH TILAK RD PUNE - 30
17) MAHERSHI STRI SKISHAN SANSTHA KARVENAGAR, PUNE
18) NANDADEEP VIDYALAY 272 PARVATI PUNE, PHONE : 4442309
19) NAVIN MARATHI SHALA 342 SHANIWAR PETH PUNE - 30
20) NAV MAHARASHTRA SHIKSHAN SANS, 16 NEAR HILL TOP SOC PUNE. PHONE : 4375850
21) NEW ENGLISH SCHOOL, TILAK RD PUNE - 30 PHONE : 4336029
22) NEW ENGLISH SCHOOL, PHURUSUNGI TILAK RD PUNE - 30 PHONE : 6980214
23) PRATHMIK SHIKSHAN MANDAL SHIKSHAN SANS 351 RASTA PETH PUNE-11 PHONE :6121580
24) PRATHMIK SHIKSHAN SANGH ,48/A ERANDAWANA PUNE. PHONE : 5443007
25) KARMAVEER BHAURAO PATIL VIDYAMANDIR DHANKAWADI PUNE - 43
26) KARMAVEER BHAURAO PATIL VIDYALAYA,597 BUDHWAR PETH PUNE - 02
27) KARMAVEER BHAUSAHED HIRAY HIGH SCH,LAXMI NAGAR PUNE - 09
28) BISHOP'S SCHOOL  5A BHAGAT ROAD PHONE : 6360437,6361233
29) DR VIKHE PATIL MEMORIAL SCHOOL S-B ROAD PUNE - 16
30) HUTCHINGS HIGH SCHOOL 7 PHYARE RD PUNE - 01PHONE : 6352764
31) KARAMVEER BHAURAO PATIL VIDYAMANDIR DHANKAWADI PUNE - 43
32) KARMAVEER BHAURAO PATIL VIDYALAYA 597 BUDHWAR PETH PUNE - 02
33) KARMAVEER BHAUSAHED HIRAY HIGH SCH LAXMI NAGAR PUNE - 09
34) KARNATAKA HIGH SCHOOL OFF KETKAR ROAD ERANDWANA PUNE - 04
35) KARVE INSTT OF SOCIAL SVC HILL SIDE KARVE NAGAR PUNE - 52
36) KENDRIYA VIDYALAYA CME PUNE PHONE : 7145838
37) MILLENNIUM NATIONAL SCHOOL 18, HILL SIDE, KARVENAGAR, PUNE – 411052
38) ROSARY HIGH SCHOOL 15-16 AMBEDKAR ROAD PUNE PHONE : 6134668
39) SHANU PATEL HIGH SCHOOL SCH 62 GIRISH SOC VARJE PUNE PHONE : 5230675
40) SINHAGAD SPRING DALE PUBLIC SCHOOL 44/1 VADGAON Budruk PH : 4341573,4359373
41) SINHAGAD SPRING DALE RESIDENTIAL SCHOOL,44/1 VADGAON Budruk PH :
42) KENDRIYA VIDYALAYA PHONE : 7011697 NO 12 9 BRD AIR FORCE STATION PUNE - 32
43) KENDRIYA VIDYALAYA,RANGE HILL PUNE - 28
44) KENDRIYA VIDYALAYA KIRKEE,RANGE HILL PUNE – 28