

## Third party evaluation of the ICT@Schools scheme

Introduction:

The scheme provides for ICT facilities to be set up in secondary and senior secondary schools in the states through a funding support from the Central Government, as detailed in the scheme document (appendix1). The state of \_\_\_\_\_ has implemented this scheme since \_\_\_\_\_ and the coverage of the scheme is as under:

### Coverage of the scheme:

Year of implementation	Number of Schools* (covered/remaining)	Vendor (in case of outright purchase) /Operating Agency (in case of BOOT)	Status of Implementation (completed/in progress)

\*Attach list of schools

Now the State of \_\_\_\_\_ wishes to get the implementation of the scheme evaluated by a third party. The terms of reference of the Evaluation are:

### Objectives:

1. To study the implementation of the *ICT@ Schools* Scheme
2. To study the enhancement of computer literacy among students and Teachers
3. To study the impact made on students' achievement
4. To study the impact made on teacher capacities and practices
5. To evaluate the model of implementation of the Scheme
6. To study the use of ICT for Administrative purposes by the schools

### Scope:

1. The study will be undertaken only by an educational or professional institution / agency of the Government, with established credentials in ICT as well as large scale evaluation studies.
2. The institution / agency shall not in any manner whatsoever be involved in the implementation of the scheme.
3. The study shall be aimed at evolving a critical picture of the design, process, implementation and the achievements of the scheme as articulated by the State. It shall particularly focus on:
  - i) To study the provisions made and the problems faced in using the provisions in terms of infrastructure, management and vendor.

- ii) Whether implementation of the scheme has helped in capacity building of teachers.
- iii) Whether ICT scheme is being used for administrative purposes

## FORMAT

### Questionnaire to ICT @ School Scheme at State Level:

Name of State:

Date of launch of ICT @ School Scheme in State:

- Analysis of tender document and tendering process
- Analysis of Service Level Agreement
- Analysis of monitoring mechanism
- Analysis of overall plan for education through ICT (to include programme for ICT, syllabus, instructional material, teacher training, e-content, evaluation, etc.)

### Questionnaire to ICT @ School Scheme for District Coordinators/ District Education Officers/ Inspector of Schools

Name of District:

Date of launch of ICT @ School Scheme in the District:

#### **Number of Schools in District**

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural

#### **Number of Schools covered by ICT @ School Scheme**

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural

#### **Facilities provided:-**

##### **1. Laptops**

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of						

Schools						
Total no. of laptops						
Cost						

## 2. Desktops

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of Schools						
Total no. Desktops						
Cost						

## 3. Digital projectors

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of Schools						
Total no. of Digital Projectors						
Cost						

## 4. UPS (uninterrupted Power Supply)

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of Schools						
Total no. of UPS						
Individual UPS/ Common						

UPS. Please specify						
Cost						

### 5. Printers

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of Schools						
Total no. of Printers						
Type of Printer (Dot matrix/ Inkjet/Laser – pl. specify)						
Cost						

### 6. Scanners

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of Schools						
Total no. of Scanners						
Cost						

### 7. ROTs (Read only Terminals)

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of Schools						
Total no. of ROTs						
Cost						

**8. Information on Internet:**

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others / Special	Total	Urban/Rural
No. of net connected Schools						
Details Dial-up/Broadband/Wireless /V-Sat						
Please give details of bandwidth/BPS,						

### 9. Email connectivity

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of schools						
Total no. connections						

### 10. Website information

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
No. of schools						
URL Info*						

\*Please attach separate sheet, if required

### 11. Operating Software (OS) (Microsoft/Linux/other please specifying)

Govt. Sec.	Govt. Hr. Sec.	Govt. Aided Sec.	Govt. Aided Hr. Sec.	Others/ Special	Total	Urban/ Rural
Microsoft						
Linux						
Open Source Software						
Combination of above OS						
Any other software (please specify)						

### 12. Subjects taught using computer/ ICT Software as an aid for teaching

Govt. Sec.	Govt. Hr.	Govt. Aided	Govt. Aided	Others/ Special	Total	Urban/ Rural
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	Sec.	Sec.	Hr. Sec.			
No. of Schools						
Mathematics						
Social Science						
Physics						
Chemistry						
English Language						
Any other						

### 13. Topics taught using computer/ ICT software

Topics			
Subject1 <b>(Maths)</b> (pl. specify software eg. Dr. Geo and Geogebra			
Chemistry			
Physics			
Social Science			
English Language			
Any other – pl. specify			

### 14. Edusat Training Centres

- (a) Yes/No :
- (b) Capacity :
- (c) No. of sessions during 2011-12:
- (d) Topics covered (subject-wise):
- (e) No. of students attended (subject-wise):200

### 15. District Resource Centre (DRC)

- (a) How many centres:
- (b) Capacity (no. of systems):
- (c) No. of Trainings conducted during previous year:
- (d) No. of master trainers:
- (e) No. of trained teachers:
- (f) Maintenance of Hardware and Software-capability: (Indicate details of Hardware clinics done in the district)

No of Hardware Clinic conducted :

No of computers Repaired :

No of teachers trained :



**16. Details of training imparted to teachers**

	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12
Mathematics							
Social Science							
Physics							
Chemistry							
English language							
Any other subject – pls. specify							

**17. IT application used for administrative functions-Details:**

**18. MIS reports usage-if any:**

**19. whether enabling Infrastructure is established:**

- (a) Electric connection: (Details of Power connection: (Single Phase/3 phase)
- (b) Diesel generator Back-up: Make and Model No of Generator & backup details
- (c) UPS; Make and Model No of Generator & backup details
- (d) Electric power connections:
- (e) Any other:

(duration of use, related issues of management and impact on ICT use may be detailed)

**Schools which have performed appreciably well under the project:**

	Govt. School	Govt. Aided School	Pvt./unaided	Urban/Rural	Remarks
Address & Contact					
A short description					
Reason (s)					

**Schools which have performed poorly under the project:**

	Govt. School	Govt. Aided School	Pvt./unaided	Urban/Rural	Remarks
Address &					

Contact					
A short description					
Reason (s)					

What are some of the suggestions for greater effectiveness of the project? Infrastructure, Working capital, technical personnel, involvement of parent-teacher groups, etc.-Please mention specifically these and any other aspects that you feel may further improve IT @ School benefits.

Name of District Coordinator/ District Education Officer/  
Project Officer looking after the programme:

Email id:

Mob No:

Date:

## FORMAT FOR IN-DEPTH STUDY IN SELECT SCHOOLS

### For Heads of Schools

1. Name of School
2. Type of area where school is located:
3. Type of school:  
 Secondary  Senior Secondary  
 Government  Government Aided
4. When was the school covered under ICT Scheme
5. Academic level offering (please check all that apply.)  
 Primary /  secondary /  High School
6. Enrolment totals Boys:                  Girls:
7. Total number of School Personnel and how many of them are ICT trained?  
Teaching:    Admin.:
8. Do you have an ICT Department or Unit?  Yes /  No
9. Is there an ICT Coordinator?  Yes /  No
10. Is there a school budget for the implementation of the school ICT plan?  Yes /  No
  - a. If yes, how much
  - b. If no, what are the other source of funds
11. For school staff with training, please number with corresponding level of expertise in ICT use.

	Excellent	Very Good	Good	Fair	No capability
Teaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-Teaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administrative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Definitions

“Fair-Being able to operate basic computer functions and Word processing application

“Good-Being able to operate at least three MS Office applications (MS Word, Excel, Power POINT) and use these for preparing lessons, to make classroom presentation, etc.

“ Very Good- All of the above skills used for teaching including the regular use of e-mail and Internet resources.

“Excellent- all of the above including use of e-mail, internet surfing and searching use of ICT in teaching any subjects; development of web pages; participating in e-learning and putting class online.

**12.** Please indicate the ICT facilities that are available in your school. Also please indicate number of units available.

**13.** Where are the computers located in school? Computer laboratory/ Classroom/  
Teacher’s lunge/ Administrator’s office/ library / others (please specify)

**14.** How long has the school had the computers?

Less than 1 year/ 1-2 years/ 2-4 years/ 4-8 years/  More than 8 years

**15.** The School’s computer networking environment is:

- All the computers are networked
- Some of the computers are networked
- None of the computers are networked

**16.**Does your school have access to:

- Reliable electricity
- Generated power at school
- UPS
- Landline Telephones
- Mobile Phones
- Fax machines
- Internet
- Cable TV

**17.**What is status of infrastructure?

(completion of installation, working condition of each equipment)

**18.**What is mechanism for repair & maintenance?

(details of mechanism, actual practice, efficiency of mechanism, problems, if any)

**19.**Availability of computer instructions

(availability of teacher for ICT, qualification, nature of employment, compliance with SLA, ability to manage tasks)

**20.** Is school aware of scope and purpose of ICT implementation?

(awareness of principal, other teachers about the programme, infrastructure, SLA, ICT, Syllabus for ICT)

**21.** Type of ICT content and e-content for other subjects used in school content.

(prepared by teacher, third party from market, whether validated and approved by Schoolboard, nature and type of content, coverage of subjects, periodicity and nature of use, quality and evaluation)

**22.** Input on ICT programme on teachers, students and on overall school climate.

**23.** Nature of issues in management of infrastructure.

**24.** Other activities of school where ICT is used

(downtime, repair and maintenance, virus, dealing with vendor, delays in replacement of equipment, safety and security, etc.)

**25.** Programme of ICT in the school?

(syllabus or programme of work for students, nature of interaction – teacher led, project work, self-learning, access to internet, integration with school programme, use of computer assisted learning, etc.)

**26.** Teacher capabilities in ICT?

(teacher awareness of ICT, training programme, nature of training, scope, period, nos. Covered, etc. teacher use of ICT in respective subjects, etc.)

**27.** What impact that the ICT programme made?

(teachers, students, overall school climate, student learning, specific subject areas, etc.)

**28.** If the ICT facility issued for any other school activity?

(administration, database, library, school activities, etc.)

**29.** How many students have access to the school's computers?

None /  About 10 percent /  About 25 percent /  About 50 percent /  About 75 percent /  All students.

**30.** Is there a regular computer class in the time table? Pl. specify the duration of classes in a week.

45 minutes /  1 + hours /  2+ hours /  Other (pl. specify).

**31.** How many teachers have access to the school's computers?

None /  About 10 percent /  About 25 percent /  About 50 percent /  About 75 percent /  All teachers.

**32.** How many teachers have access to Internet in School

None /  About 10 percent /  About 25 percent /  About 50 percent /  About 75 percent /  All teachers.

**33.** Do your teachers and students have access to the use of ICT facilities after school hours?

- No, they are never accessible
- They are sometimes accessible
- They are always accessible
- They are accessible for a fee

**34.** How does your school implement the policy on ICT in education?

- By offering separate computer courses
- By using ICT in teaching specific subjects
- By using ICT in the management and administration of schools
- By training teachers on ICT
- Others (Please specify)

**35.** Does your school ICT course/computer education and ICT-based lessons/activities?

- Yes  No

If yes, how are these offered? Also please indicate number of hours allotted for the course.

- As a separate subject                      no. of hours/subject
- Integrated with other                      approximate no. of minutes of integration per subject

Subjects

- As an elective                                  no. of hours
- Integrated with elective                      approximate no. of minutes

Subject

- As a special programme                      no. of hours
- Others (please specify)
- Don't know

**36.** In which classes or subjects in your school are computers and related technologies used?

	<b>Always</b>	<b>A lot</b>	<b>sometimes</b>	<b>rarely</b>	<b>never</b>
ICT subject	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mathematics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Social sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local language	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
English	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Art	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Music	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**37.** For what purposes do your school use ICT? (You may check more than one purpose as applicable and indicate the level of schooling where such purpose holds true. Please reply to each only if there is about 25-100% of the total teachers doing it)

- Learning enrichment or learning new things
- Remedial learning
- Regular instruction and training for development computer skills (i.e., teaching about computers-computer literacy science and programme)
- Finding/accessing information and researching through Internet.
- Communicating with others (email, etc.)
- As teaching/learning tool for teaching specific subjects
- Development of logic, reasoning, critical thinking and problem solving competence
- Development of ability to use basic application programs (i.e., word processing, database management, spreadsheets, presentation, graphics, etc.)
- For playing games and fun
- Helping with school administration and management
- Using in test administration, scoring and analysis
- Tracking of pupil/student performance levels, instructional objectives mastered, instructional objectives currently active, and suggested instructional activities
- Others (please specify)

**38. Do you collect fees for:**

	Yes	No
Computer fee in general	<input type="checkbox"/>	<input type="checkbox"/>
Computer courses?	<input type="checkbox"/>	<input type="checkbox"/>
Use of computers after class by students?	<input type="checkbox"/>	<input type="checkbox"/>
Use of Internet after Class by students?	<input type="checkbox"/>	<input type="checkbox"/>
Use of computers by non-formal classes	<input type="checkbox"/>	<input type="checkbox"/>

**39.** How many hours in a month does your school access the Internet?

**40.** How many computers are connected to the Internet either as

- Stand alone
- Networked

**41.** Does your school have a website and e-mail?

- a) With website    Yes No
- b) With e-mail     Yes No

**42.** Does your school have educational software applications (CD ROM and videos)

- Yes
- No

If yes, please list down below software application being used and indicate if these are commercial software or developed in-house and in which language of instruction.

**43.** Does the school have a code of conduct for use of computers and Internet?

Yes       No

**44.** Please indicate approximate number of hours allocated for use of X number per year

1. Gender    Male    Female
  
2. Age in years  
 Under 30  
 30-50  
 Over 50
  
3. Number of years in the service:
  
4. Academic levels taught:
  
5. In which subjects do you use ICT as teaching tool?
  
6. How many years have you been using computers?
  
7. Did you receive any training in information and communication technology (ICT) over the past 3 years?
  
8. What are your main reasons for attending computer training?
  
9. Please rate your expertise in the use of the ICT tools?



10. How often do you use ICT tools in the following purposes:

Item	Very Often	Often (Twice or More a week)	Seldom(A few times in a months)	Never
Teaching-learning for specific Subjects		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teaching computer skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Finding/accessing information And educational materials		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Making presentation/lectures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preparing lessons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicating with other Teachers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicating with parents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitoring and evaluating Student's progress or keeping Track of student's performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preparing reports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Further personal development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Others, please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

45. How many hours per week are your school's computers accessible to you?

46. If you have access to the Internet, how often do you use in the schools?

47. How do you use Internet in your job as a teacher?

48. Do you have an email address?

**For students:**

1. Grade/Year Level:

2. Gender:

3. Age in years:

4. How many years have you been using computers?

5. In which classes or subjects do you use computers and related ICTs?

6. Please indicate you level of skills in the use of the computer applications.

7. Who taught you about computers?

8. For what purpose and in what degree do you use ICT in schoolwork?

Purpose	Very often (everyday)	Often (twice or more a week)	Sometimes (a new times a month)	Rarely (once in several months)	Not at all
<b>Informative:</b> to find, acquire and use information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Functional:</b> To use and manipulate existing information (compile lists of books, abstract and summarize books and materials, use accessed information to prepare homework, compare information)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Creating:</b> to compose, compile, produce new information (write papers, drawing, programming, make Power Point presentations, give oral presentations, prepare newsletter, create own website, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Communication-</b> to exchange and to transmit information with other students, teachers and others using email and Internet; to join discussion form and chats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. In your school, are you able to use the required ICT tools and facilities that you need in doing your subject schoolwork?

10. What are your favourite activities using computers?

11. If you are using computers and related ICTs, how many hours on the average per week of normal school hours are you able to use these computers and related ICTs, to do your studies?

12. If no, where else can you have access and use of these ICT tools and facilities outside of your normal school hours?

13. Do you have access to Internet?

14. How often do you use the Internet for surfing websites in schools?

15. Do you have personal e-mail address?

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