



Child Tracking System (CTS) in Odisha



Objectives of The Project



Project *e-Shishu* was designed for the better planning, implementation & monitoring of SSA programme in Orissa.

Child Tracking System (CTS) is the major component of project eshishu having a focus towards the management of educational status of the 6-14 years age group children in the state with the three basic goals of SSA as -

- **1. Access**: Tracking the out of school children with their age, social category, gender, reason of being Out of school & present engagement. Provide the need specific access to them for the elementary education.
- **2. Retention**: Tracking the In-school children and providing necessary support to them to retain in the school until completion of the elementary level.
- **3. Quality of Education**: Tracking the achievement level of the children In-school and taking corrective measures for it's improvement.

Project Components

- GIS School mapping project (SIS)
 maps all infrastructure available in each
 School along with latitude and
 longitude (GPS survey)
- Educational Personal Information System (EPIS) helps in managing the information regarding teachers and personnel involved in the elementary education system
- Child Tracking System (CTS) helps in identifying each child between 0 to 14 Years by name, sex, date of birth, category & educational status.
- SIS, EPIS are linked to the CTS to enable us to view all the three main stake holders i.e. *children*, *teacher* and *School* on one platform.



EPIS
Teacher
Information
1,50,000



GIS School Mapping (SIS) 60,000



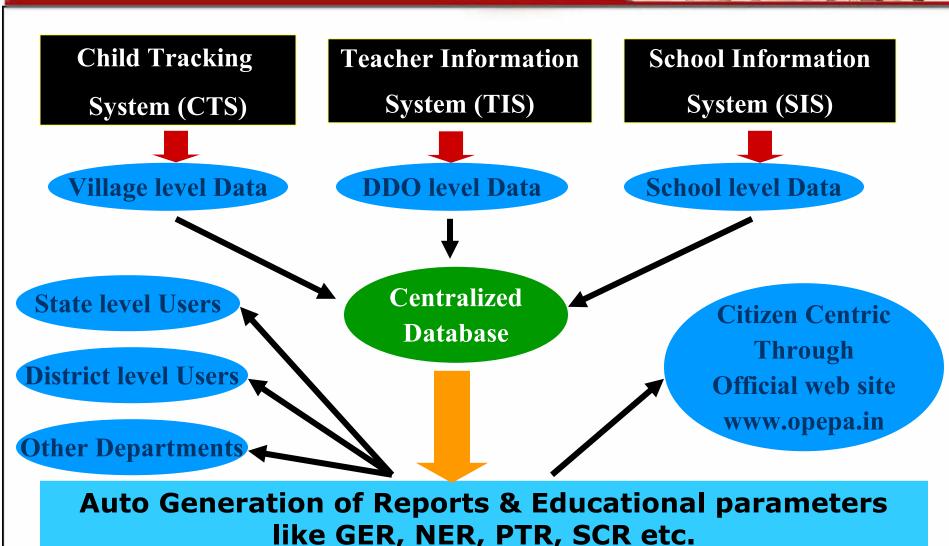
Need for CTS:

- Till 2005, DISE was the only source of the data base for the Elementary Education/ SSA in the state, providing the detail information of Infrastructure, Teacher & Enrollment.
- DISE provides the enrollment in number and there was the possibility of its over reporting due to existence of fake, duplicate & double enrollments in the school records.
- DISE doesn't cover the list of out-of school children. There was no system for identification of an Out of School Children to provide him/her the need based educational facility. However, Block wise no. of such children was collected arbitrarily through BRCCs/CRCCs and was compiled. There was no scope to identify the villages having more no. of Out of school children.
- For generation of educational indicators, the projected child population from Census-2001 was used.
- DISE doesn't provide child wise achievement level or attendance rate.

Need for CTS:

- There was a need to Identify the exact child as per his/her age/ gender/ category/ mother tongue/ educational status/ type of disability/ reason of being out-of-school/ present engagement etc., so that the need specific solution can be provided to different age group children for achieving UEE.
- To identify each individual child w.r.t. to school record to remove the fake, duplicate & double enrollments and make the records error free.
- Provision for free text books, mid-day meals, uniform & incentives to the exact child in the school.
- Identification of children belong to focused groups, CWSN and Minority categories.
- Calculate GER & NER on the basis of exact child population at different level (village to state) and for socially & educationally disadvantage groups.
- Calculate Student Attendance rate & Achievement level.
- Measure the performance of each school and put responsibility to the Teachers.
- Identification of the requirements of further schooling facilities for the out of school children on the basis of their reason of being out of school.

Flow of Information through Project e-Shishu



Objectives of Child Tracking System (CTS):

Child Tracking System was conceived during 2005 with the following objectives.

- Tracking each & every child from 0 14 years age group by name / DOB / educational / socio- economic status throughout the State consisting of about 1.05 crore children & 78 lakhs households and prepare a database.
- Identify the pre-school, in-school & out-of school children and provide them the basic need of elementary education.
- Identify the achievement level of the children and support to enhance it.
- Provide unique child code to the children for tracking them in subsequent years and ensuring their benefits related to education.
- Using the database for proper planning & implementation of different SSA activities.

Assistance :-

- More than 45000 stake holders including Teachers, AW workers, local youth, officials from field level to state level were involved in the job.
- OCAC being the IT nodal agency of the state had supported in data scanning (ICR), data integration, software development and deployment.
- Internal MIS department of OPEPA has managed the process.
- Support from SSA towards training, printing of formats, mobility support, data scanning etc.

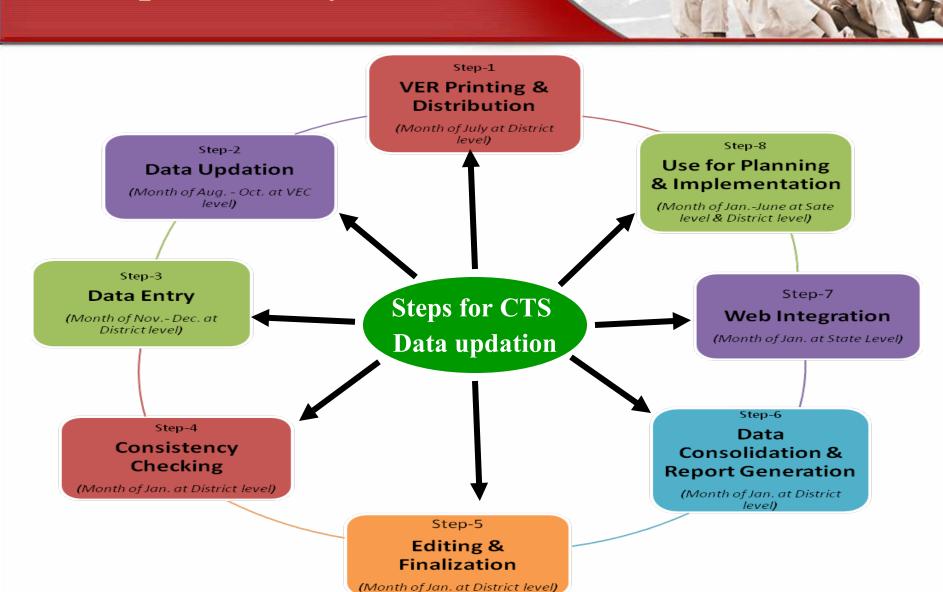
Stages of development:

- CTS is evolving every year.
- The exact position of the elementary education system in Orissa was observed through CTS.
- The enrollment position at elementary level in 2005 through CTS was reported by nearly 9 lakh less than that was reported through DISE.
- The out of school children of the state was reported to **6.03lakhs** in comparison to that of 1.3 lakhs, which was reported in previous year from BRC/CRC sources.
- This difference in enrollment of DISE & CTS leads to CTS validation & updation-2006.
- The village wise printed CTS data was verified with school registers to remove the fake, duplicate & double enrollments from school record and reconcile the enrollment figure of DISE & CTS.

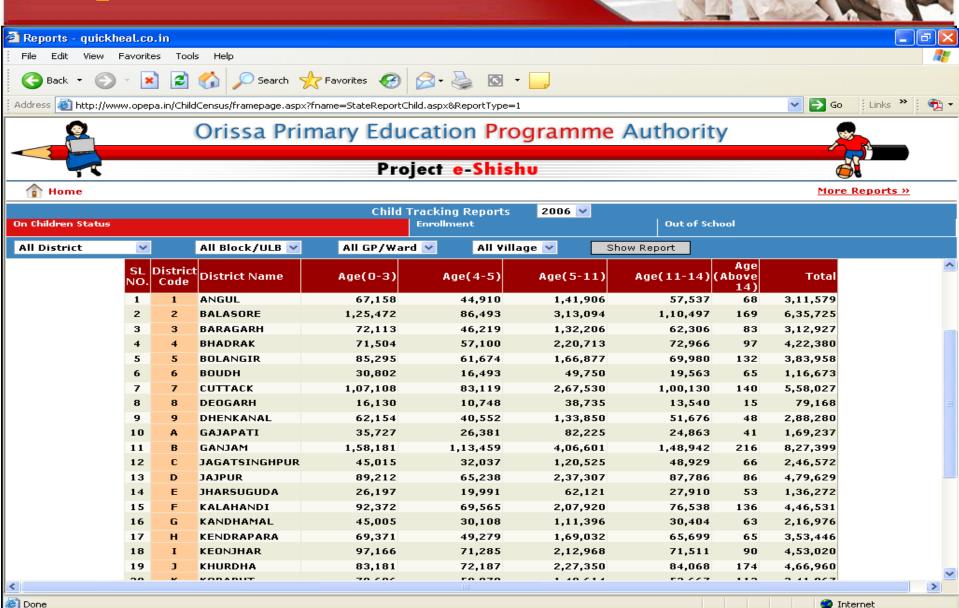
Stages of development:

- CTS database was simultaneously got validated and updated for 2006 and made web based.
- Child code was provided to track the child in subsequent years.
- Information on % of marks secured by each child in Annual Examination was collected from the school register for
 - measurement of Teacher's accountability by linking achievement of students over a period of time in a school to the Teacher's performance.
 - focus on the low achiever children to enhance their performance.
- **Annual attendance** of each child was collected against the functional days of the school to calculate the average attendance rate.
- From 2007 to 2010, CTS data is printed through Village Education Registers (VER) and provided to the schools/VECs for its use and updation for subsequent years.

CTS Updation Cycle:



Outputs from CTS:-







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Child Tracking Reports

2006 🕶

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Child Population All District

Enrollment

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Show Report

Out of School

STATE LEVEL REPORT ON CHILDREN OF AGE GROUP BETWEEN 6 - 11

	S	С	S	Т	OI	вс	OTH	IERS		TOTAL		M:	INORITY	
District	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total	Boys	Girls	Total
ANGUL	15734	14433	14134	12610	36634	33267	8132	6962	74634	67272	141906	417	365	78:
BALASORE	40160	37316	25361	20306	68403	63423	30648	27477	164572	148522	313094	7202	7025	1422
BARAGARH	15678	14535	15529	13974	31813	30984	5104	4589	68124	64082	132206	406	484	891
BHADRAK	29242	27730	3994	3232	45361	42262	35428	33464	114025	106688	220713	9028	8957	1798!
BOLANGIR	17538	15788	21185	20067	42476	40477	4903	4443	86102	80775	166877	325	329	654
BOUDH	6757	6270	3405	3145	14559	13763	962	889	25683	24067	49750	63	58	12:
CUTTACK	31159	29276	7769	6353	65142	59830	34756	33245	138826	128704	267530	9386	9517	1890:
DEOGARH	3383	3245	8409	7986	7523	6853	687	649	20002	18733	38735	102	107	201
DHENKANAL	15522	14037	13092	11715	31895	28848	10029	8712	70538	63312	133850	333	312	64!
GAJAPATI	4662	4078	27399	22432	8159	7520	4214	3761	44434	37791	82225	682	384	106)
GANJAM	50924	43251	10939	8904	116989	107455	36037	32102	214889	191712	406601	736	733	146'
JAGATSINGHPUR	16512	15159	1060	865	30560	28098	15067	13204	63199	57326	120525	3375	3035	641)
JAJPUR	34529	32744	13333	10671	51095	47019	24880	23036	123837	113470	237307	7519	7202	1472:
JHARSUGUDA	6135	5761	11786	11303	8650	7948	5570	4968	32141	29980	62121	789	672	146:
KALAHANDI	21926	20743	33082	31201	47678	44692	4564	4034	107250	100670	207920	352	399	75:
KANDHAMAL	13164	11928	33913	30498	7490	7059	3800	3544	58367	53029	111396	366	350	711
< CHINDDADADA <	24500	20005	1200	007	F0474	47745	10007	12054	07000	01/00	140000	2660	2454	700





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Child Tracking Reports 2006 On Children Status **Enrollment Out of School** All GP/Ward 💌 All Block/ULB 🔽 All Village 🔽 All District Show Report

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Category ALL

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Class All

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STATE LEVEL SCHOOL WISE ENROLMENT DETAILS OF GENDER ALL OF CATEGORY ALL AND CLASS ALL

		G	ovt.	EGS/AIE		Pvt. Recog.		Pvt. L	JnRecog.	Total	
SLNO	District Name	No of School	Enrollment								
1	ANGUL	1621	162140	472	10745	143	16310	59	2096	2295	191291
2	BALASORE	2629	321661	1104	42249	204	15136	244	9756	4181	388802
3	BARAGARH	1857	167597	489	11328	97	6307	111	5039	2554	190271
4	BHADRAK	1696	234727	733	24844	120	7586	132	3682	2681	270839
5	BOLANGIR	2308	197077	528	11059	137	8400	62	1149	3035	217685
6	BOUDH	660	53670	252	7865	35	2473	29	1744	976	65752
7	CUTTACK	2743	305531	533	9870	171	21827	384	20215	3831	357443
8	DEOGARH	606	43130	295	5844	32	1881	18	642	951	51497
9	DHENKANAL	1536	157426	349	9004	100	7295	97	4137	2082	177862
10	GAJAPATI	1167	80993	630	13716	26	2553	42	2022	1865	99284
11	GANJAM	3689	458795	553	14802	265	24513	72	2397	4579	500507
12	JAGATSINGHPUR	1389	135349	312	7190	65	4994	187	8620	1953	156153
13	JAJPUR	2146	274627	618	17008	319	18863	99	2514	3182	313012
14	JHARSUGUDA	753	71086	167	3760	48	6850	50	3898	1018	85594
15	KALAHANDI	1962	209962	1150	38272	101	10651	130	5880	3343	264765
16	KANDHAMAL	1633	121119	563	12691	46	4517	55	2551	2297	140878





Outputs from CTS:-









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Project e-Shishu



MINORITY



Child Tracking Reports

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Child Population

All District

All Block/ULB 🔽

All GP/Ward 🔽

All Village 🔽

Show Report

Out of School



Choose Parameters

AgeGroup 6-11

Enrollment









2006 🕶

STATE LEVEL REPORT ON OUT OF SCHOOL CHILDREN OF AGE GROUP 6 - 11

District	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total	Boys	Girls	Total
ANGUL	935	917	1268	1205	1529	1406	342	277	4074	3805	7879	28	23	5: 🍙
BALASORE	2904	2606	2287	2093	4049	3670	2437	2193	11677	10562	22239	806	851	165
BARAGARH	398	390	457	408	572	551	95	76	1522	1425	2947	16	9	2!
BHADRAK	1549	1528	369	319	2159	1962	2321	2062	6398	5871	12269	979	939	191:
BOLANGIR	2441	2219	2920	3090	4998	5012	580	499	10939	10820	21759	63	48	11:
BOUDH	514	501	300	293	985	930	101	77	1900	1801	3701	5	13	1:
CUTTACK	1118	1024	406	344	1967	1643	1463	1256	4954	4267	9221	425	362	78
DEOGARH	115	125	329	345	230	198	28	17	702	685	1387	6	4	11
DHENKANAL	509	443	612	586	798	668	346	300	2265	1997	4262	10	7	1
GAJAPATI	394	357	2349	2331	672	636	407	346	3822	3670	7492	46	19	6!
GANJAM	5514	5088	1301	1038	9815	8767	3157	2724	19787	17617	37404	94	90	184
JAGATSINGHPUR	623	524	34	23	1144	891	543	517	2344	1955	4299	82	75	15
JAJPUR	716	698	489	501	914	880	570	444	2689	2523	5212	235	159	394
JHARSUGUDA	351	324	626	646	494	432	504	448	1975	1850	3825	72	69	14:
KALAHANDI	1734	1832	3228	3442	3557	3897	395	358	8914	9529	18443	33	36	6'

Internet

Revision of CTS as per RTE Act 2009:



- CTS has been revised during 2011 to cater the needs of RTE Act 2009.
- Data has been collected through revised formats for In-School & out of School children in 2011-12 along with DISE data collection.
- Linking the outputs from CTS with DISE gives the detail information of the Education System. T will help the users to get instant information about School, available infrastructure, Teachers and Children.
- GIS information has been made web integrated with DISE & CTS data.
- Through www.opepa.in, it helps the users to use the outputs as well as it will attract the parents/ guardians to seek their child information and intimate us for the corrections needed (if any), which will further strengthen the correctness of the database.
- On-line Child data updation for 2013-14 is in progress.



Ce-Shishu

School Name Raikola p.S. EMISCode 0405701

School Infrastruc	ture Details:	Administra	ative Details		
Class Rooms	5 (0) ! (0) !	D.P.C!	Dayanidhi Nayak		
Other Rooms	2 (0) ! (0) !	D.I!	Dharanidhara Behera		
Drinking Water Source	Tubewell with Handpump				
Toilet & Water	Water No Toilet Available and No		Bibhunadan Panc		
upply toilet tank is being used		Head	Sanatana		
rl	Electricity is available	Master	Pradhan		
Electrification	nearby, not in school	Area w.r.t Student(in sqm)			
Boundary Wall	Green Fencing	Ideal	Actual		
Playground	Not Available	60.8	110		
Garden	Available	PTR Information			
Gate	Iron gate	Ideal	Actual		
Computer	-		1:25		
Availability	NOC Available				

					1	Of	3 N	ex	t>>
Healt	h Of	Educ	atio	on					
En	rolle	d	A	EA		Pro	mo	ted	
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	E-Mail	Print	PrintWI			
	Physical I	Location				
	District:	KANDHAMAL				
	Block:	G.UDAYAGIR				
1	GP:	RAIKO	LA			

Village/Ward Info

There are **221** Children in Village/Ward **Raikala** With **2** Other Schools.

0 - 14 Children Status								
IN School	PRE School	OUT School						
139	81	1						

School Name: Raikola p.S. Management: Govt. of Orissa-SME

Students Strength : 76								
Class	I	II	III	I٧	V			
Strength	20	18	10	13	15			

Teacher	Yea	Years					
Name	In Service	In Scho					
JYOTSNA NAYAK		16					
SANATAN PRADHAN		2					
SANTARA PRADHAN		0					

Children Of School: Raikola p.S. Class:1

SI No	Child Name	Guardian Name	Gender	DOB	Religion	Category
1	BADALA PRADHA N	DURYODHAN PRADHAN	Male	1/17/2000	Hindu	ST
2	RITIK PRADHAN	GOPABANDHU PRADHAN	Male	6/13/2001	Hindu	ST
3	SABLOM PRADHA N	KETAN PRADHAN	Male	6/1/2001	Christian	ST
4	SAMURIKA PRADHAN	MAHAJAN PRADHAN	Female	4/12/2000	Christian	ST
5	ENIMA PRADHAN	SISIR KUMAR PRADHAN	Female	4/12/2001	Hindu	ST
6	RITISH PARICHHA	SUKULAL PARICHHA	Female	3/2/2001	Hindu	sc
7	BARUN PRADHAN	DILIP PRADHAN	Male	4/10/1999	Christian	ST
8	CHIRANTANA PARICHHA	NIKUNTA PARICHHA	Male	3/6/2001	Christian	OBC
9	TIKIMA PRADHA N	BELALSEN PRADHAN	Male	9/1/2001	Hindu	ST



VILLAGE LEVEL REPORT ON OUT OF SCHOOL CHILDREN

SLN	O Child Name	<u>Guardian Name</u>	Relation With Child	<u>DOB</u>	<u>Aqe</u>	Gender	Category	Туре
1	GITA MALLICK	SUNAMATI MALLICK	MOTHER	7/1/1995	10	Female	ST	DROPPED OUT

Orissa Primary Education Programme Authority

Personal Information

Name : JYOTSNA NAYAK

Father's Name : NA

Date of Birth : 15-Dec-1962

Gender : FEMALE

Religion : HINDU

Catagory : OBC/SCBC

Marital Status : MARRIED

Blood Group : A+



Posting Information

School Name : RAIKOLA P.S.

Date of Entry into Service

: NA

Date of Retirement : 15-Dec-2022

Current Posting Type : APPOINTMENT

Designation : ASST. TEACHER

Join Date : 02-Mar-1991

Level : NA

Pay Scale : NA

Gross : 7500

PF : NA

PF Type : NA

Education Details

General : BASIC TRAINING

 $\textbf{Professional} \; : \; \; \text{C.T.E.}$

Training : NA

Service Profile

School Name	Designation	Join Date	Relieve Date
RAIKOLA P.S.	ASST, TEACHER	02-Mar-1991	NA

Loan Details

Project e-Shishu

CHILD REPORT CARD

Child Code : AB0862224
Name of the Child : Abotula Appan
Name of the Guardian : Abotula Satyam

Relation with the child : Father
Date of Birth of the child : 11/01/1997
Address : Vill- Jhami
GP - Jhami

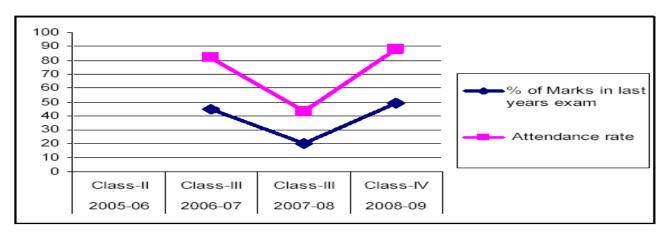
Block – Gumma District - Gajapati

Religion : Hindu
Category : OBC
Mother tongue : Oriya
Gender : Male
Type of disability (if any) : No

Educational Status : In-school School Name : Jhami UPS

Progress in education :

Photograph not available now



MANAGEMENT INFORMATION SYSTEM, OPEPA

GIS Web Integration: http://203.129.207.77/ssa/ (1679 unread)... 餐 Sarva Shik... × ጸ Google 8 Google 8 Google 8 Google 8 Google 🎩 Amazon 👑 YouTube 🛃 26° Bangalore, India ▼ 🎑 News ▼ 🌠 Fun Games ▼ 🔀 Sarva Siksha Abhiyan Odisha India √ Sarva Shiksha Abhiyan

GIS Web **Integration:** @ http://203.129.207.77/ssa/ D + 2 C X (1679 unread)... 餐 Sarva Shik... 🗴 🚼 Google 8 Google 8 Google 8 Google 8 Google x Q -Amazon Was YouTube 26° Bangalore, India ▼ Mews ▼ 15 Fun Games ▼ 20° Facebook ▼ () () Listen to music () Options 🔻 N20.1465, E84.3711 Sarva Siksha Abhiyan Odisha India Widaets TIKABALI V X **Habitation Analysis** Proximity(in Km.) Clear Graphics Villages having Selected school Type: Wap Jata not vet available Villages not having Selected school Type: KANDHAMAL G.UDAYAGIRI* Record: << < 0 > >> Records (0 out of 0 Selected) △ **3 a a b a b**

Uses of CTS by SSA Interventions:-



Planning Unit:-

- Used in development of educational indicators like GER, & NER.
- Fialisation of 25 tables for planning.
- Plan for access, retention & quality improvement
- Plan for text books, uniforms & incentives.

Access Unit :-

- Mainstreaming 5+ & 6+ children directly to Class-I
- Opening of RBC/NRBC for 7+ to 13+ age group children
- Identification of children in urban slums/ platforms and provide Alternative Schooling facilities.
- Identification of children of migrant families to provide mobile schools and residential care centers.
- Residential camps for Adolescent Girls with life skill education.

Pedagogy Unit :-

- Distribution of free text books for In-School children
- Identification of low achievers for pedagogical improvements
- Tracking of students achievement level/ attendance rates as per the class/gender/social category
- Calculate the school & teachers performance linked to child achievement.

ST/SC Education :-

- Identification of Schools with linguistic minorities
- Identification of schools for implementation of MLE
- Identification of schools having more ST/SC children
- Estimation of the no. of ST children for printing of MLE books in different tribal languages.

Uses of CTS by SSA Interventions:-



Girls education :-

- Identification of out of school dropped out girls for KGBV hostels.
- Initiate research activities for tribal girls and the reason of OOS.
- Identification of blocks having high gender gap in education.
- Initiation of special enrollment drive for girls in high percentages of Out of School Children blocks.
- Initiation of the community mobilisation and retention drives.

CWSN Children :-

- Identification of CWSN children as per the type of disability.
- Conduct medical assessment camps for these children.
- Provision of aids & appliances for the CWSN children.
- Facilitation for the CWSN children to provide schooling facility to them.

Research & evaluation :-

 Identification of areas for different research studies related to the reason of high percentages of OOS, dropout, never enrolled and negative trends in educational indicators.

Uses of the database



Use of CTS data by other Departments:-

- Core committee formed under the Chairmanship of the Development Commissioner-cum-Additional Chief secretary, Govt. for the use of the available CTS data by all the concerned departments.
- WCD Department was using the database of CTS 05 & 06 for
 - Activities related to pre-school children
 - Mid day meal provision for In-school children
 - From 2007-08, WCD has taken the responsibility of maintaining the database for 0-5 years children under e-Pragati project and OPEPA is only updating & using the information of 6-14 years Children.
- ST&SC Department using the list of tribal children for the benefit of those children.
- Labour department using the database to identify different categories of child labors in different places.

Coverage of OOSC



Way ahead :-

- Output of CTS has been used in Special Enrolment Drive to enroll all Out of School children in age specific classes at nearby Schools.
- Children admitted as a Special child will be listed and will be provided special training..
- CTS data will be updated on monthly basis at Block data centers for identifying frequent dropouts, migrant children & long absentees.
- Class wise student progress & performances will be tracked to get information on qualitative achievements of the children.
- CTS is now focusing towards "quality" aspect than "access".

Recognitions:-





OPEPA has received the

"Prime Minister's Award for Excellence in Public Administration for the year 2006-07"

for it's outstanding initiative - "Child Tracking System"



Recognitions:





Winner of the "Best Govt. website" in 10th National e-governance conference

Recognitions:





TELECOMM India 2006

EXCELLENCE AWARD

FOR THE MOST PROGRESSIVE STATE GOVERNMENT

For Application of IT in e-governance

Case Study ->
Project e-Shishu
(Child Tracking System)

About us:-

- Please visit the website www.opepa.in to get the updated information through this project.
- •Please Search **e-Sishu** in Google search engine to get more information on the project.



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Feedbacks



Suggestions & queries

Thanks !!!