

**REPORT ON
POST ENUMERATION SURVEY
(The Sample Check of DISE Data of Chhattisgarh)**



**Submitted by
State Project Director, Sarva Shiksha Abhiyan
Govt. of Chhattisgarh**

Acknowledgment

In their continuous efforts of making education Department computerized, the department was in need of a MIS system that maintains elaborate information efficiently and would help in reporting.

The design of sound information system for successfully monitoring and implementation of the program District Information System for Education (DISE) was accorded high priority by NUEPA.

Here this report is outcome of field survey by the NGOs with headmasters, teachers, and concerning officers of Sarva Siksha Abhiyaan of Chhattisgarh.

We express our gratitude to NUEPA ,Also our special thanks to Nandi Foundation, Baster; Educational Development Centre, Raipur; Pratham, Korea. These NGOs have been conducting Post Enumeration Survey to bring out this report.

**Mission Director
State Project Office
Rajiv Gandhi Shiksha Mission,
Chhattisgarh, Raipur**

Introduction

With the aim of providing free and compulsory education, among the various programs undertaken by the Govt. of India, Sarva Shiksha Abhiyaan (S.S.A) is the most recent one.

In the context of effective implementation of the large scale program involving collecting of massive information, analyzing the results, identifying and adopting of corrective course of action based on actual situation, an elaborate M.I.S has also been laid to monitor the implementation of the program.

At the Project Authority level i.e. at the state level, regular monitoring reports are being prepared and submitted to the Ministry of MHRD, Govt. of India at periodic intervals.

Need and Relevance

In addition, a similar survey i.e. DISE (District Information System for Education); a software is used to ensure the accuracy of the information provided by the project authorities.

DISE is based on 5% sample survey and in essence approximately guards the SSA.

The 5% sample check of DISE data was based on the data collected in 2 districts namely Korea and Kanker.

A 12-day survey was conducted by the following NGO's after their one – day training.

- Nandi Foundation, Baster conducted the survey for Kanker District.
- Pratham, Raipur for Korla District.

10% of the total 16 districts were taken, so 2 districts in addition to 1 were taken as model districts .

The number of blocks in each district is as follows:

Korea – 5 blocks.

Kanker- 7 blocks.

The samples survey was conducted among with 137 schools in 2 districts.75 schools were surveyed in Kanker district and 62 in Korea District. All districts were selected on basis of literacy level, also extreme northern and southern Districts were targeted for survey.

Here some of the schools could not be considered for survey as the formats were incomplete. It was difficult to consider that data for comparison. This also resulted in the difference in that actual data surveyed and that DISE data.

Acronyms

SSA	-Sarva Shiksha Abhiyan
DISE	-District Information System for Education
PES	-Post Enumeration Survey
DCF	-Data Collection Format
GoI	-Government of India
NUEPA	-National University of Educational Planning and Administration
SC	-Scheduled Castes
ST	-Scheduled Tribes
OBCs	-Other Backward Classes

Procedure Adopted

Due to time constraints, lack of MIS staff, there was certain delay in getting data from districts. The Department circulated Expression of Interest (EoI). We requested existing NGOs working in the field of education to conduct the survey ultimately work done by two has been compiled.

Three NGOs from the state accepted the proposal ultimately work done by 2 has been compiled. Mission Director held the meeting with the NGOs and training of the NGOs was conducted for a day. All the templates of the survey formats were distributed. NGOs held field work and submitted their report to the Department. This report was cross-checked and came out with this conclusion report.

NGOs formed team of 5 to 7 members for survey they were chosen according to number of blocks in selected districts. All members of NGO had been involved and worked for similar type of activities; they had monitored educational program; Read India Program and many other similar projects. All the members were trained to conduct proper survey.

Recommendations

Based on the results of the survey some of the recommendations were arrived at for improving MIS, and these are as follows:

- More emphasis should be laid on issues like enrolment, retention, dropout and attendance rate in the data capture format resulting in effective enumeration of vital statistics.
- Certain aspects/variables found in DISE format like school establishment particulars, post sanctioned, budget releases, school management are generally not available at school level. As a result, the DISE format suffers from vacuum in capturing such data.
- Collection of data through DISE format may be ensured by October of each academic year so that the Five Percent Sample Check can be attempted by December of the same academic year so that the results can be appropriately utilized for planning the activities for next academic year.
- After collection of DISE data, there should be a proper scrutiny at school complex level as well as block level for ensuring data lapses.
- Effective supervision and monitoring should be ensured at Block and District level.
- Support of statistical expertise should be utilized at the block level for scrutiny, processing and development of database. Convergence should be established with Chief Planning office at District level and at Block level with Statistical section of block Revenue office for ensuring quality.

Observations

**Table 1.1: Management-wise Educational Institutions
In The 3 Districts of Chhattisgarh**

KANKER	1	Central	0	0	0	0	0
	2	Sch. Edn. Dept.	0	383	49	1	5
	3	Tribal Dept.	0	578	222	33	27
	4	ICDS	1019	0	0	0	0
	5	SSA	0	524	247	0	0
	6	Private-aided	0	1	1	0	0
	7	Private-Unaided	13	44	26	12	8
	8	Local body	0	0	0	0	0
	9	Madarsa	0	5	0	0	0
	10	Janbhagidari Samiti	0	0	6	28	10
		Total	1032	1535	551	74	50

KOREA	1	Central	3	3	3	3	3
	2	Sch. Edn. Dept.	0	262	39	4	12
	3	Tribal Dept.	0	398	120	14	19
	4	ICDS	949	0	0	0	0
	5	SSA	0	333	235	0	0
	6	Private-aided	0	8	1	0	0
	7	Private-Unaided	27	118	79	18	16
	8	Local body	0	0	0	0	0
	9	Madarsa	0	0	0	0	0
	10	Janbhagidari Samiti	0	0	2	10	4
		Total	979	1122	479	49	54

Source: District Annual Work Plan

Table 1.2: Habitation by Population

SN	District	Habitations with Population					TOTAL
		>500	500-250	250-200	200-100	<100	
1	Kanker	565	514	433	341	94	1947
2	Korea	250	463	290	435	373	1811

Table 1.3: Area and other Information

S.No.	Name of District	Area (Sq.Km)	No. of Clusters	No. of Panchayats	No. of Villages	No. of Habitations
1	Kanker	5285.01	124	389	1080	1947
2	Korea	5977.79	70	250	657	1811

Table 1.4: Gross Access Ratio (in percentage)

S.No.	Name of District	Primary	Upper-Primary
1	Kanker	92.81	86.80
2	Korea	99.79	99.50

38 % population of above three districts is having scattered population. And the people live in jungle.

Population access could not be achieved to 100% because of scattering nature of people.

Table 1.5 Gross Enrolment (at Primary stage 6-11)

All Management i.e. Edu+TWD+EGS+Pvt. Aided+Pvt. Non-Aided)

Kanker	SC	2329	2259	4588	2428	2467	4895	104.25	109.21	106.69
	ST	26869	26747	53616	27757	28183	55940	103.30	105.37	104.33
	OBC	10735	10986	21721	11083	11483	22566	103.24	104.52	103.89
	GEN	7824	8012	15836	8191	8484	16675	104.69	105.89	105.30
	Total	47757	48004	95761	49459	50617	100076	103.56	105.44	104.51
Korea	SC	4124	4241	8365	4539	4635	9174	110.06	109.29	109.67
	ST	22551	21202	43753	24942	23299	48241	110.60	109.89	110.26
	OBC	17978	16950	34928	19397	18486	37883	107.89	109.06	108.46
	GEN	5533	4863	10396	6160	5476	11636	111.33	112.61	111.93
	Total	50186	47256	97442	55038	51896	106934	109.67	109.82	109.74

$$\text{ST percent in Population} = \frac{\text{Total ST}}{\text{Total Population}} * 100$$

$$\text{ST percent in Enrollment} = \frac{\text{Total Enrollment}}{\text{Total Enrollment}} * 100$$

Tough Gender disparity is not idle but it is at its minimum level in these districts of Chhattisgarh.

Table 1.6 Enrolment (Upper Primary)

(at Upper Primary stage -All Management i.e. EDU+TWD+Pvt. Aided+Pvt. Non-Aided)

Name of District	Category	No. of Children (age group 11-14)			Enrolment (VI-VIII)			GER		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Kanker	SC	1043	1048	2091	1086	1104	2190	96.04	94.93	95.48
	ST	10678	9960	20638	10712	10163	20875	99.68	98.00	98.86
	OBC	4844	5058	9902	4887	5104	9991	99.12	99.10	99.11
	GEN	3585	3751	7336	3637	3870	7507	98.57	96.93	97.72
	Total	20150	19817	39967	20322	20241	40563	100.85	102.14	101.49
Korea	SC	2094	1990	4084	2206	2101	4307	94.92	94.72	94.82
	ST	8996	7914	16910	9164	8061	17225	98.17	98.18	98.17
	OBC	7283	6445	13728	7896	7176	15072	92.24	89.81	91.08
	GEN	2877	2432	5309	3040	2654	5694	94.64	91.64	93.24
	Total	21250	18781	40031	22306	19992	42298	104.97	106.45	105.66

COMPARATIVE DATA ANALYSIS BETWEEN PES AND DISE DATA

As cited elsewhere in the report, the principal mandate of the report is to establish the accuracy of DISE survey in respect of various components of SSA in Chhattisgarh. However, the Data Collection Formats (DCF) used for PES survey consists of additional information than the Data Collection Formats (DCF) through which data were collected for DISE survey. Further, certain institutions like private and un-aided schools were not covered under DISE survey. However, given the mandate of the study and the methodology followed, each and every category of schools was covered under PES survey. As a result, 137 schools were selected randomly for the study and survey was carried out through trained and qualified research investigators. Further, as the PES data format has additional information than DISE survey data, the additional components were also presented separately and for the purpose of comparison only common variables were taken up.

In essence, this chapter contains a comparative analysis of common variables existing between PES and DISE survey data among the common schools covered.

As the report is aimed at confirming the data collected through DISE survey the common variables where deviation were established is furnished below:

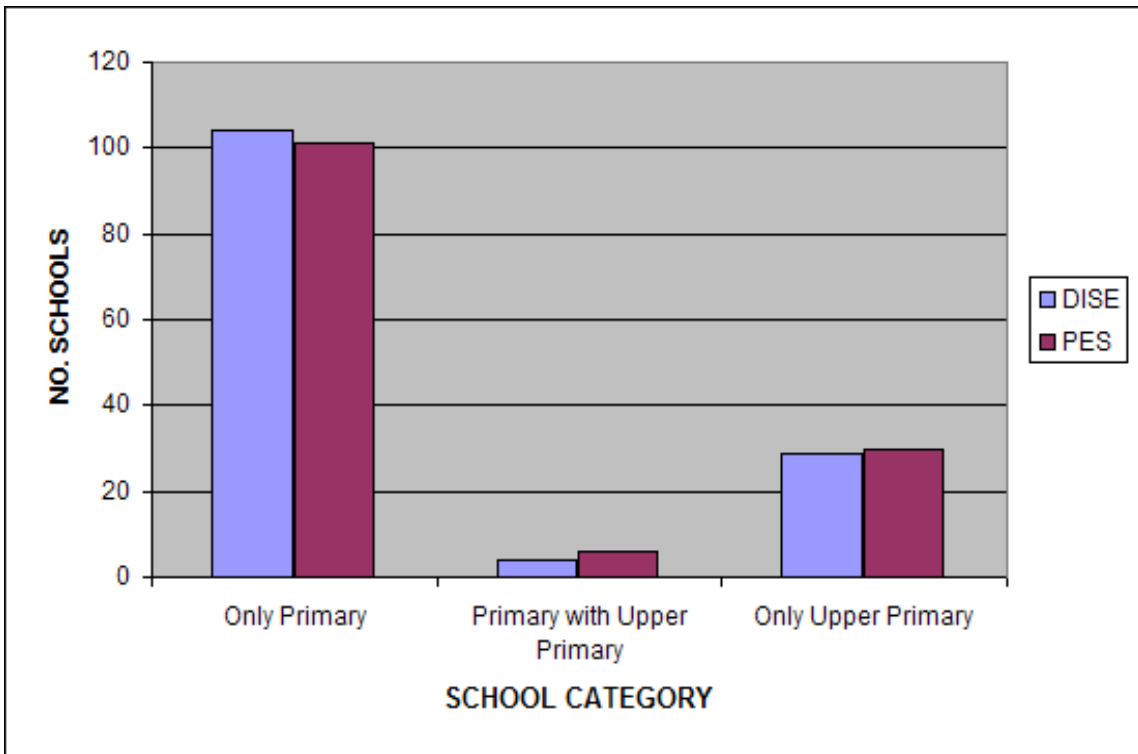
- Location of Schools;
- Type of Schools
- Category of Schools;
- Lowest Class in Schools;
- Highest Class in Schools;
- Management of Schools;
- Residential status of Schools;
- Part of Shift Schools;
- Sanctioned Teachers;
- In Position Teachers;
- Status of School Building;
- Number of Blocks in Schools;
- Condition of Class Rooms;
- Electricity in Schools;
- Separate Toilets for Girls in Schools;
- Common Toilets in Schools;
- Condition of Boundary Walls in Schools;
- Source of Drinking Water in Schools;
- Availability of Play Ground in Schools;
- Availability of Computers in Schools;
- Availability of Furniture in School; and
- Children's Enrolment in 2005-06 and 2006-07.

For each component of comparable variables, as cited above, the analysed data is presented against PES and DISE data actual and then deviation, if any, irrespective of positive or negative trends is presented. The comparative study is also presented in graphical as well as tabular format for better understanding of the results.

COMPARATIVE ANALYSIS OF DISE DATA WITH PES DATA

COMPARISON OF DISE DATA WITH PES ON SCHOOL CATEGORY

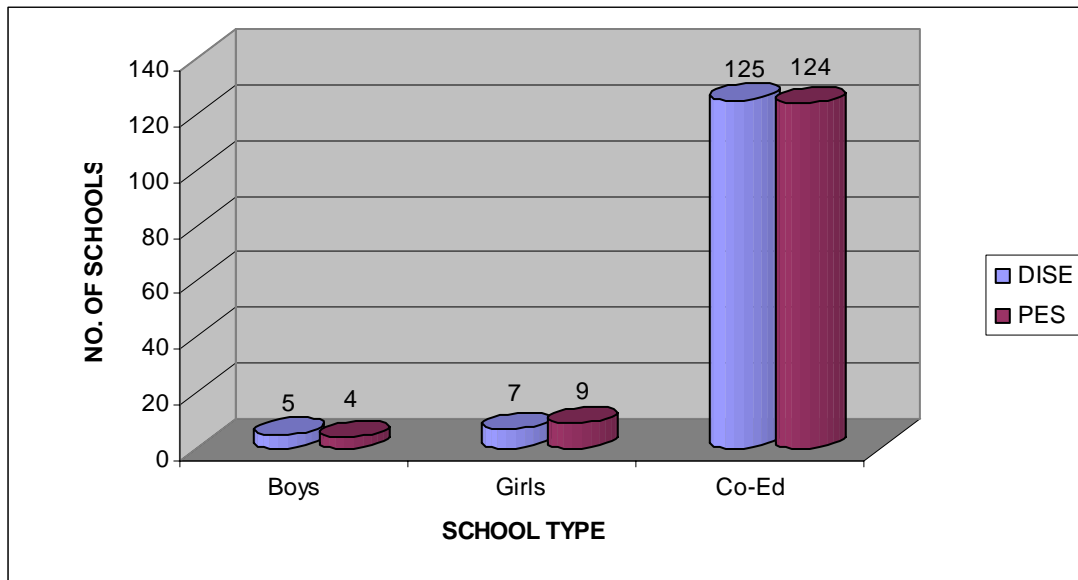
Korea	Category	DISE	PES	Deviation
	Only Primary	47	46	1
	Only Upper Primary	15	16	1
Kanker	Only Primary	57	55	2
	Primary with Upper Primary	4	6	2
	Only Upper Primary	14	14	0
Over all	Only Primary	104	101	3
	Primary with Upper Primary	4	6	2
	Only Upper Primary	29	30	1



- a) Quantitative Value of items as per DISE Data - 137
- b) Quantitative Value of items as per PES Data - 137
- c) Quantitative Value of deviations ignoring \pm signs - 6
- d) Percentage deviation of DISE Data with PES Data - 4%
- e) Precision level of DISE data with relation to PES Data - 96%

COMPARISION OF DISE DATA WITH PES ON SCHOOL TYPE

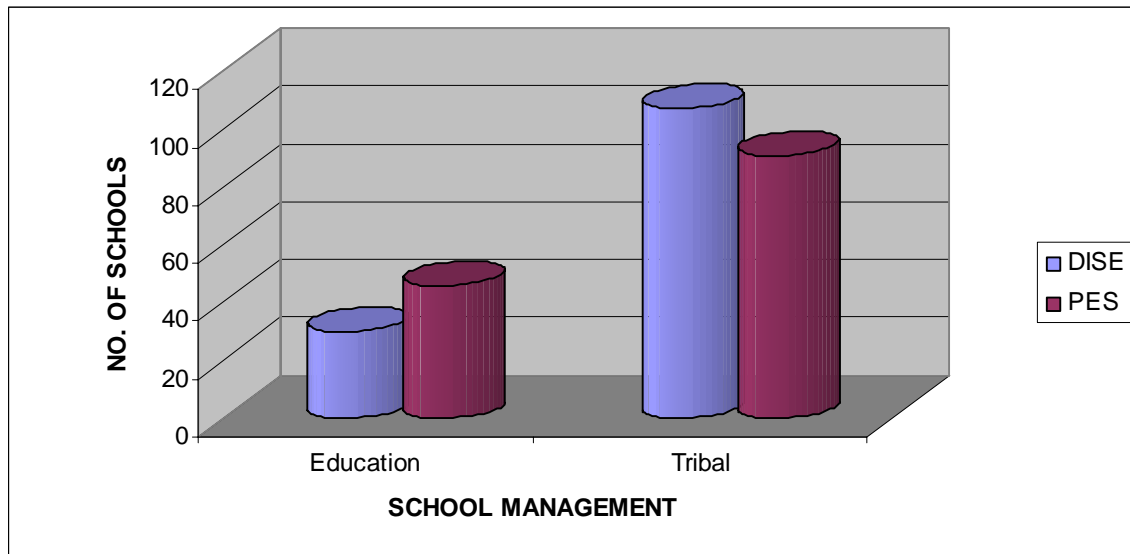
Type	Korea		Kanker		Over all		
	DISE	PES	DISE	PES	DISE	PES	Deviation
Boys	2	3	3	1	5	4	1
Girls	3	5	4	4	7	9	2
Co-Ed	57	54	68	70	125	124	1



- a) Quantitative Value of items as per DISE Data - 137
- b) Quantitative Value of items as per PES Data - 137
- c) Quantitative Value of deviations ignoring \pm signs - 4
- d) Percentage deviation of DISE Data with PES Data - 3%
- e) Precision level of DISE data with relation to PES Data - 97%

COMPARISION OF DISE DATA WITH PES ON SCHOOL MANAGEMENT

MGT	Korea		Kanker		Over all			% Deviation
	DISE	PES	DISE	PES	DISE	PES	Deviation	
Education	14	20	16	26	30	46	16	
Tribal	48	42	59	49	107	91	16	
Total	62		75		137	137	32	23



COMPARISION OF DISE DATA WITH PES ON LOWEST AND HIGHEST CLASS

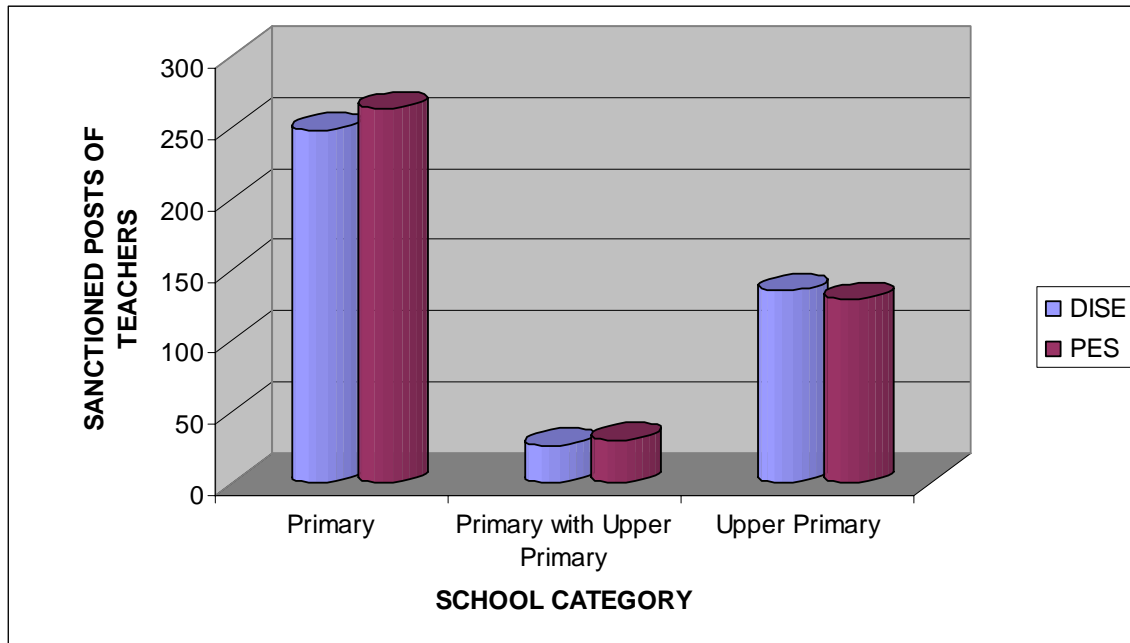
Lowest class	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
1	48	47	61	61	109	108	1	0.93
6	14	15	14	14	28	29	1	3.45
Highest class								
5	46	45	55	55	101	100	1	1.00
8	16	17	20	20	36	37	1	2.70

**COMPARISON OF DISE DATA WITH PES ON
RESIDENTIAL/NON-RESIDENTIAL TYPE**

Resi_YN	Korea		Kanker		Over			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Residential	0	1	1	1	1	2	1	
Non-Residential	62	61	74	74	136	135	1	
Total					137	137	2	2

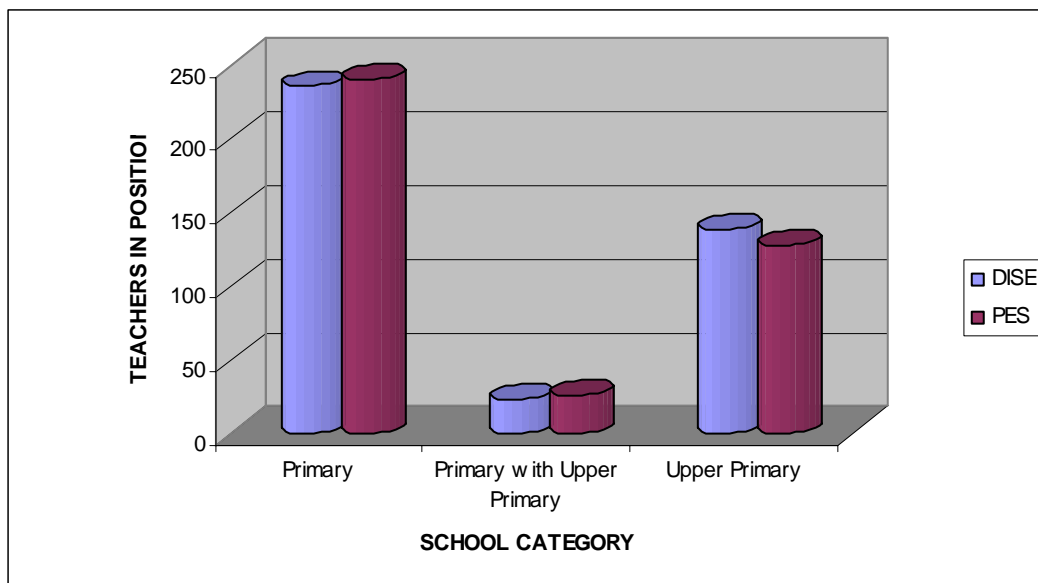
**COMPARISON OF DISE DATA WITH PES ON SANCTIONED POSTS OF
TEACHERS**

School Category	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Primary	113	118	135	145	248	263	15	
Primary with Upper Primary			26	30	26	30	4	
Upper Primary	55	58	80	71	135	129	6	
Total					409	422	25	6.11



COMPARISION OF DISE DATA WITH PES ON TEACHERS IN POSITION

School Category	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Primary	103	103	133	138	236	241	5	
Primary with Upper Primary			23	26	23	26	3	
Upper Primary	50	50	89	78	139	128	11	
Total					398	395	19	4.77



COMPARISION OF DISE DATA WITH PES ON CLASS ROOM CONDITION

Classroom condition	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Good	241	245	238	245	479	490	11	
Need Major Repair	21	29	43	47	64	76	12	
Need Minor Repair	38	37	45	40	83	77	6	
					626	643	29	4.63

COMPARISION OF DISE DATA WITH PES ON SCHOOLS WITH ELECTRICITY

Component	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Schools with Electricity	9	7	10	10	19	17	2	
Schools without Electricity	53	55	65	65	118	120	2	
Total					137	137	4	2.92

COMPARISION OF DISE DATA WITH PES ON SCHOOLS WITH ELECTRICITY

Component	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Schools with Electricity	9	7	10	10	19	17	2	
Schools without Electricity	53	55	65	65	118	120	2	
Total					137	137	4	2.92

COMPARISION OF DISE DATA WITH PES ON COMMON TIOLET IN SCHOOLS

Component	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
With common Toilet	19	17	18	19	37	36	1	
Without common toilet	43	45	57	56	100	101	1	
Total					137	137	2	1.46

COMPARISION OF DISE DATA WITH PES ON GIRLS TIOLET IN SCHOOLS

Component	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
With girls toilet	20	22	13	13	33	35	2	
Without girls toilet	42	40	62	62	104	102	2	
Total					137	137	4	2.92

COMPARISION OF DISE DATA WITH PES ON DRINKING WATER FACILITY

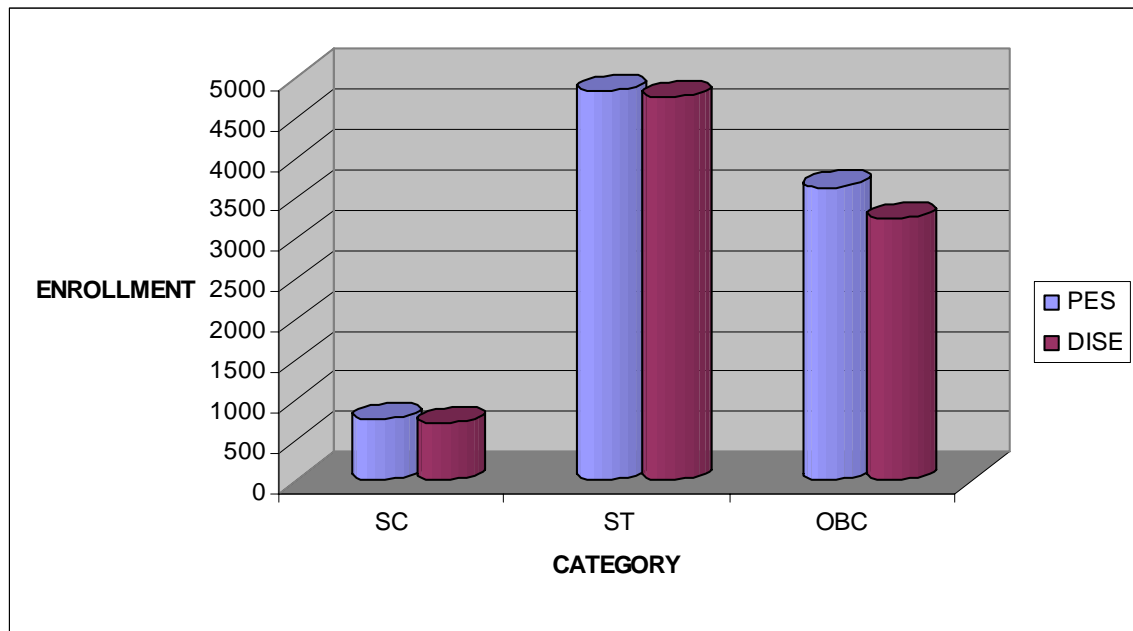
Drinking water facility	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Handpump	51	48	66	63	117	111	6	
Well	1	1	1	2	2	3	1	
Tap	4	3	3	3	7	6	1	
None	6	10	5	7	11	17	6	
Total					137	137	14	10.22

COMPARISION OF DISE DATA WITH PES ON BOUNDARY WALL

Boundary wall	Korea		Kanker		Over all			
	DISE	PES	DISE	PES	DISE	PES	Deviation	% Deviation
Pucca	16	17	25	24	41	41	0	
Pucca but borken	5	5	8	8	13	13	0	
Barbedwire	2	1	2	4	4	5	1	
Hedge			5	2	5	2	3	
No boundary wall	39	39	32	31	71	70	1	
Other			3	6	3	6	3	
Total					137	137	8	5.84

COMPARISION OF DISE DATA WITH PES ON ENROLLMENT DATA

Korea	Source	Primary				Upper Primary			
		SC	ST	OBC	Total	SC	ST	OBC	Total
	PES	362	1335	1238	3000	58	639	462	1063
	DISE	350	1341	1095	2866	59	588	442	1120
	Dev.	12	6	143	134	1	51	20	57
	%Dev.	3.43	0.45	13.06	4.68	1.69	8.67	4.52	5.09
Kanker	PES	207	2099	1485	4466	130	774	462	1505
	DISE	197	2068	1284	4463	117	759	435	1746
	Dev.	10	31	201	3	13	15	27	241
	%Dev.	4.83	1.48	13.54	0.07	10.00	1.94	5.84	16.01
Over all	PES	569	3434	2723	7466	188	1413	924	2568
	DISE	547	3409	2379	7329	176	1347	877	2866
	Dev.	22	37	344	137	14	66	47	298
	%Dev.	3.87	1.08	12.63	1.83	7.45	4.67	5.09	11.60



COMPARISION OF DISE DATA WITH PES ON DISABLED ENROLLMENT

District	School Type	DISE	PES	Deviation	% Deviation
Korea	Primary	55	51	4	7.27
	Upper Primary	19	17	2	10.53
	Primary with Upper Primary				
Kanker	Primary	57	55	2	3.51
	Upper Primary	15	14	1	6.67
	Primary with Upper Primary	4	3	1	25.00
Over all	Primary	112	106	6	5.36
	Upper Primary	34	31	3	8.82
	Primary with Upper Primary	4	3	1	25.00
	Total	150	140	10	6.67

**PERCENTAGE DEVIATION AND PRECISION LEVEL OF DISE DATA FROM /
WITH THE PES DATA TAKEN TOGETHER ALL COMPARABLE ITMES**

S.No.	Description of Comparable items	Quantitative value under			Percentage	
		DISE	PES	Deviation ignoring +/- sign	Deviation	Precision
1	SCHOOL CATEGORY	137	137	6	4	96
2	SCHOOL TYPE	137	137	4	3	97
3	SCHOOL MANAGEMENT	137	137	32	23	77
4	LOWEST CLASS	137	137	2	1	99
5	HIGHEST CLASS	137	137	2	1	99
6	RESIDENTIAL/NON-RESIDENTIAL TYPE	137	137	2	1	99
7	SANCTIONED POSTS OF TEACHERS	409	422	25	6	94
8	TEACHERS IN POSITION	398	395	19	5	95
9	CLASS ROOM CONDITION	626	643	29	5	95
10	SCHOOLS WITH ELECTRICITY	137	137	4	3	97
11	COMMON TIOLET IN SCHOOLS	137	137	2	1	99
12	GIRLS TIOLET IN SCHOOLS	137	137	4	3	97
13	SOURCE OF DRINKING WATER FACILITY	137	137	14	10	90
14	BOUNDARY WALL	137	137	8	6	94
15	ENROLLMENT DATA	10034	10195	161	2	98
16	DISABLED ENROLLMENT	150	140	10	7	93

Feedback from Field Investigators

1. In 75% of schools Principal/Head Teacher were able to provide information of enrolment and details of pass percentage.
2. In 20% of schools all information is on single register.
3. Teachers properly filled the register in 90% of the schools.
4. In 70% of the schools the principal have the information of year end summery details of children for all grades.
5. school report cards available in the 38% of the schools.
6. In 75% of the Schools attendance register is properly maintained.
7. The teachers are punctual in 88 % of the Schools.
8. Only 2% of the schools have photocopy of DISE DCF.
9. In 52 % of the schools, they have Display Board.
10. 100% schools having the provision of Mid-day meal.
11. In 60% of the schools, they provide good quality food and 19% of the schools have average quality food under Mid-day meal.
12. In 7% of the schools, furniture is available in the classrooms and in 72% of the schools; they have tatpattii in the classrooms.

Conclusion

The main reason behind relatively large amount of deviation in school management is basically due to the fact that previously some of the tribal department schools belonged to education department and the some of the educational dept. schools belonged to the tribal welfare dept. Later, all the schools of Tribal blocks were handed over to the Tribal welfare dept. and vice-versa. But the buildings and the teachers were not handed over to respective Departments. So, confusion persists among the teachers and block level offices about the 'school management department' field, which is reflected in the DISE datum.