

VALIDATION REPORT

Of DISE DATA-2008

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CHAPTER I

INTRODUCTION

District Information System for Education requires collection and maintenance of school level data in all the states of India in accordance with the prescribed guidelines of the National University of Educational Planning and Administration (NUPEA). As per NUEPA norms a five per cent sample checking of data collected under DISE, is required to be conducted every year. The State Implementing Society of SSA entrusted to Tripura University the sample checking of DISE data for the year 2008 vide letters No. F.11 (8-10) - SE/ SSA/07/7209 dated, 15 .12.08 and F.11 (8-10) SE/SSA/07 dated 21.03.09. The present report is based on the sample checking of DISE data for the year 2008.

1.1 METHODOLOGY

1.1.1 Selection of Sample Units

The districts were selected for the sample checking as per the terms of reference. West Tripura District with mixed population and tribal population dominated Dhalai district, as Special Focused District, were selected by the State Implementing Society of SSA.

Schools were selected from all the blocks in the two districts from the block wise school list supplied by the State Implementing Society of SSA. Random selection was followed to ensure inclusion of all types of schools in the sample. The final analysis is based on data from 79 (seventy nine) schools from which data were collected.

The list of schools along with the dates of visit to the schools in West Tripura District and Dhalai District are given in Table 1.1 and Table 1. 2.

1.1.2 Methods of Data Collection

Data were collected through canvassing the ‘Special DCF for Post Enumeration Survey’ (henceforth referred to as Special DCF) for five per cent sample check which was duly countersigned by the Headmaster of the respective school.

The Special DCF for Post Enumeration Survey consists of two parts. The **first part** contains five group of questions related to

A. School Location Particulars (consisting of 04 queries)

B. School Particulars (consisting of 14 queries)

C. Staff Details (consisting of 02 queries)

D. Facilities in School (consisting of 13 queries) and

E. Student Enrolment (consisting of 5 tables)

The second part consists of a feedback schedule of the investigator regarding different aspects of record maintenance at school level, teacher attendance and other particulars.

1.1.3 Methods of Analysis

In order to check the validity, data collected through the Special DCF are matched with the School Information Schedules obtained from the District Education Office of the respective districts for each school surveyed. Numbers of discrepancies for each school are noted and discrepancy rates are calculated for blocks, type of schools (primary, upper primary, secondary and higher secondary) and groups of questions (as mentioned in section 1.2).

1.1.4 Calculation of Discrepancy Rates:

Step I: Total discrepancy for district, blocks, each type of schools is obtained by adding number of discrepancies in the surveyed schools of the district, blocks and of each type.

Step II: (a) To obtain **discrepancy rate for district**, total discrepancy in all surveyed schools in the district is divided by number of schools surveyed in the district.

(b) To obtain **discrepancy rate for blocks**, total discrepancy in all surveyed schools in the block is divided by number of schools surveyed in the block.

(c) To obtain **discrepancy rates according to school type**, total discrepancy in all surveyed schools of the type, is divided by number of schools of the type (primary, upper primary, secondary and higher- secondary) surveyed.

In addition to discrepancy rates for district, block and school type, **the discrepancy rate is also calculated for groups of question**, in order to identify where most of the discrepancies occur in recording data. Group wise discrepancy rate is calculated by dividing the total number of discrepancies in the group by the product of number of schools and number of queries in the group. This is expected to help in devising better methods for data collection and record.

1.2 LAYOUT OF CHAPTERS

The Report consists of four chapters. Chapter I contains the terms of reference, methodology and coverage of the study. It also provides the list of the schools visited for the purpose. Chapter II and Chapter III provides the data validation outcome for West Tripura District and Dhalai District respectively. Finally, Chapter IV provides a comparative analysis of the two districts and also makes some concluding observations and suggestion.

Table 1.1: List of Schools Visited -West District

Serial No.	Name of School	Date of Visit	CRC
1	Kalika mura JB School	18.04.09	Bamutia Binodini JR
2	Taranagar High School	16.04.09	Mohanpur Girls' High School
3	Madhya Taranagar SKC JB School	16.0.09	Mohanpur Girls' High School
4	Chhachhuria SB School	9.04.09	Bamutia Binodini JR High School
5	Kamal Ghat HS School	16.04.09	Phatikchhara TE SB School
6	Durgapur SB School	17.04.09	Durgapur SB School
7	Gabtali JB School	18.04.09	Durgapur SB School
8	Paschim Charipra JB School	18.04.09	SL Vidyaniketan SB School
9	Jhilikmara Hathai JB School	17.04.09	Chandpur High School
10	BarKathalia - HS school	17.04.09	BarKathalia - HS School
11	Madhudasa para JB School	17.04.09	BarKathalia - HS School
12	Kutnabari SB School	17.04.09	Chandpur High School
13	Twikarma JB School	31.03.09	Balaram Kobra HS School
14	Biladhan ReangChowpara SB School	31.03.09	Biladhan ReangChowpara SB School
15	Maharanipur HS School	31.04.09	Metherai Reangbari High School
16	Amarabati SB school	25.03.09	Ratanpur SB School
17	Bararush para JB School	25.03.09	Jampajjala Col. SB School
18	Kachu chhara Model JB School	25.03.09	North Takar Jala SB
19	Jampui GTpara High School	25.03.09	Jampajjala Col. SB School
20	Nazrulpally JB School	11.04.09	Kalamchowra HS School
21	Putia High school	11.04.09	Veluarchar High School
22	Ratan Dola JB School	11.04.09	Nagar SB School
23	South maheshpur JB school	13.04.09	Katahalia Girls' SB School
24	Barnarayan HS School	11.04.09	TariniSundari SB School
25	Uttarmanarchak SB School	11.04.09	Uttarmanarchak SB School
26	Srimantapur SB School	13.04.09	Uttarmanarchak SB School
27	Tuichindrai bari HS School	1.04.09	Howaibari sb School
28	Gamaibari SB School	1.04.09	Gamaibari SB School
29	MK Gandhi JB School	1.04.09	Thapidayal High School
30	Niranjan Sardarpara SB School	01.04.09	Ghilatali Bazar HS School
31	Murabari JB School	31.03.09	Utabari SB School
32	Madhyabishram KP JB School	20.04.09	T.E. College High School
33	T.E. College High School	20.04.09	T.E. College High School
34	Barjala Sb School	20.04.09	T.E. College High School
35	Behalabari HS School	2.04.09	Bidyabil SB School
36	North Jamtila JB School	3.04.09	Naliabari Model SB School
37	Dakahalsingbari Model SB School	2.04.09	Karanji Chhara SB School
38	North Chebri Ichhamayee JB School	26.03.09	Chebri SB School
39	Khawai Tea Garden SB School	27.03.09	Ajararh tilla SB School
40	Barnarayan JB School	11.04.09	Thakurmura High School
41	Bejimara ONGC Chowmuhani JB School	13.04.09	Thakurmura High School
42	Jolaibari JB School	11.04.09	Thakurmura High School
43	Rangamatia(north) SB School	11.04.09	Thakurmura High School
44	Ranagamatia(south) HS School	11.04.09	Thakurmura High School
45	Old Agartala HS School	18.04.09	Old Agartala HS School

Table 1.1(Contd)

Serial No.	Name of School	Date of Visit	CRC
46	East Champamura JB School	18.04.09	Old Agartala HS School
47	Rajarbandh JB School	18.04.09	DC para Hemanta Smriti HS Vidyalay
48	Budhai Saha JB School	18.04.09	DC para Hemanta Smriti HS Vidyalay
49	Baldakhal SB School	18.04.09	Old Agartala HS School
50	Debipur High School	25.04.09	Debipur High School
51	Purnasenapti Para JB School	11.04.09	NC Nagar (N) Janapriya SB School
52	Miahpara SB School	13.04.09	Debipur High School
53	Bhati Abhoynagar (PP) SB School	18.04.09	
54	Indranagar Harijan JB School	18.04.09	

Table 1.2: List of Schools Visited -Dhalai District

Serial No.	Name of School	Date of Visit	CRC
1	Suknachhara J.B School	02.04.09	North Nalichhara High School
2	Kulaiganga CPJB School	28.03.09	North Nalichhara High School
3	Ajudhya Bahadur MP JB School	02.04.09	Kamalachhra SB School
4	Shivbari JB School	02.04.09	Kamalachhra SB School
5	Purba Para JB School	02.04.09	Hatimarachhara SB School
6	Balaram High School	02.04.09	Balaram High School
7	Birendra D.B Para JB School	03.04.09	Chailengta HS School
8	Binanda D.B Para SB School	06.04.09	Hokutwisa HS School
9	Mainama JB School	04.04.09	Madhabchandra HS School
10	Debipur Colony SB School	04.04.09	Kalamchhara High School
11	Kittingpurna R/P SB School	06.04.09	Hokutwisa HS School
12	Sindhu Kumar Para JB School	04.04.09	Manu HS School
13	Dakshin Mainama K.K D.B JB School	04.04.09	Lalchhara TMC High School
14	West Avanga SB School	27.03.09	Mharanipur High School
15	West Halhali JB School	26.03.09	Halahali HS School
16	Manikbhandar Village JB School	25.03.09	Duri Shib Bari High School
17	Kaimaichhara SB School	26.03.09	Shib Bari High School
18	Bichitra CP JB School	27.03.09	Mharanipur High School
19	Kanailal Halam Para SB School	29.03.09	Debichhara High School
20	Kamalpur E.M HS School	27.03.09	K.C. Girls' HS School
21	Baligaon High School	26.03.09	K.C. Girls' HS School
22	Hezachhara SB School	04.04.09	Hezachhara SB School
23	Ultachhara Colony SB School	31.03.09	Jagabandhupara High School
24	Joychandrapara JB School	31.03.09	Mach Kumbir
25	Gandachhara HS School	31.03.09	Kabiguru RSV High School

CHAPTER II

DATA VALIDATION OF WEST TRIPURA DISTRICT

2.1: Discrepancy Rates at the Block Level

The data are collected from 54 (fifty four) schools covering 38 CRC s in the West Tripura District as given Table 1.1. The discrepancy rate for each block is given in Table 2.1 arranged in ascending order along with the discrepancy rate for the district

Table 2.1: Discrepancy Rate for West Tripura District & Blocks

	Block Name	Discrepancy Rate	Rank
West Tripura District	Teliamura	2.33	1
	Mungiakami	2.67	2
	Hezamara	3.25	3
	Kathalia	3.50	4
	Bishalgarh	3.67	5
	Mohanpur	3.80	6
	Jirania	3.80	7
	Dukli	4.00	8
	Mandwi	4.00	9
	Boxanagar	4.33	10
	Melaghar	4.40	11
	Jampuijala	4.75	12
	Kalyanpur	5.00	13
	Tulashikar	5.00	14
	Khowai	5.50	15
	AMC	3.50	
Total		3.93	

Source : Field Investigation.

West District figure includes selected schools in Agartala Municipality area.

It is observed that the eight blocks have higher discrepancy rate compared to the discrepancy rate of the district (3.93) as a whole. While Khowai Block has the highest discrepancy rate, it is lowest for Teliamura Block.

2.2 Discrepancy Rate According to School Type

Table 2.2 shows that primary schools have lowest discrepancy rate which is even lower than the district figure.

Table 2.2 Discrepancy Rate According to School Type
West Tripura District

School Type	No. of Schools	Discrepancy Rate
Primary	26	3.15
Upper Primary	15	4.53
Secondary	05	5.2
Higher Secondary	08	4.5
Total: Field Investigation.	54	3.93

2.3 Group wise Discrepancy Rate

Analysis of item wise discrepancy helps to locate the queries which are mostly incorrectly answered. Table 2.3 provides an idea about the discrepancy level in each group of questions.

Table 2.3 Item wise Discrepancy Rate
West Tripura District

Items	Discrepancy Rate
A :School Location Particulars	0.078704
B: School Particulars	0.037037
C: Staff Details	0.25
D: Facilities in School	0.188272
E: Student Enrolment	0.066667

Source: Field Investigation.

Table 2.3 reveals that discrepancy rate so calculated is highest in item C which records the staff details. This is followed by facilities in school. Discrepancy rate is lowest in item B regarding school particulars.

CHAPTER III

DATA VALIDATION OF DHALAI DISTRICT

3.1: Discrepancy at the Block Level

Block level discrepancy for Dhalai district is calculated from the surveyed schools as given in Table 1.2. While Ambassa Block has the lowest average discrepancy it is highest in Dumburnagar Block.

Table 3.1 Discrepancy Rate for Dhalai District & Blocks

Dhalai District	Block Name	Average Block Level Discrepancy	RanK
	Ambassa	2.16	1
	Manu	2.57	2
	Salema	5.44	3
	Dumburnagar	6.33	4
Total		3.96	

Source : Field Investigation.

3.2 Discrepancy Rate According to School Type

Table 3.2 shows that discrepancy in data is lowest in primary schools which are even lower than overall discrepancy rate.

**Table 3.2 Discrepancy Rate According to School Type
Dhalai District**

School Type	No. of Schools	Discrepancy Rate
Primary	13	3.00
Upper Primary	08	4.75
Secondary	02	4.00
Higher Secondary	02	7.00
Total	25	3.96

Source : Field Investigation.

3.3 Itemwise Discrepancy Rate

As revealed in Table 3.3, item wise discrepancy rate in Dhalai District is highest in item C, i.e. in record of staff details. This is followed by item E i.e. in record of student enrolment.

**Table 3.3 Itemwise Discrepancy Rate
Dhalai District**

Items	Discrepancy Rate
A :School Location Particulars	0.03
B: School Particulars	0.028571
C: Staff Details	0.54
D: Facilities in School	0.173333
E: Student Enrolment	0.24

Source: Field Survey.

CHAPTER IV

A COMPARATIVE VIEW & CONCLUDING OBSERVATIONS

4.1 A Comparative Analysis

The present Chapter provides a comparative analysis of the two districts with respect to validation of DISE data, makes some concluding observations and offers a few suggestions. A total of 79 schools were surveyed in 20 blocks of the two districts of West Tripura (54 schools) and Dhalai (25 schools) for the data validation exercise. The details are given in Table 4.1.

Table 4.1 Number and Types of Schools Surveyed

School Type	Number of Schools		
	West Tripura	Dhalai	Total
Primary	26	13	39
Upper Primary	15	08	23
Secondary	05	02	07
Higher Secondary	08	02	10
Total	54	25	79

Source: Field Survey.

A comparison of discrepancy rate between the two districts shows that (Table 4.2) it is marginally higher in Dhalai District

School Type	Discrepancy Rate		
	West Tripura	Dhalai	Total
Primary	3.15	3.00	3.10
Upper Primary	4.53	4.75	4.60
Secondary	5.2	4.00	4.85
Higher Secondary	4.5	7.00	5.00
Total	3.93	3.96	

Table 4.2 Discrepancy Rate According to School Type (West Tripura & Dhalai)

Source: Field Survey.

The discrepancy rate also differs according to type of schools. In both the districts the rate is lowest in primary schools. In West Tripura District discrepancy rate highest in Secondary Schools and in Dhalai District discrepancy rate is highest in Higher Secondary Schools.

Analysis of item wise discrepancy reveals that there is variation in the validation outcome in the two districts (Table 4.4)

**Table 4.3 Itemwise Discrepancy Rate
(West Tripura & Dhalai)**

Items	Discrepancy Rate	
	West Tripura	Dhalai
A :School Location Particulars	0.078704	0.03
B: School Particulars	0.037037	0.028571
C: Staff Details	0.25	0.54
D: Facilities in School	0.188272	0.173333
E: Student Enrolment	0.066667	0.24

Source : Field Survey

Discrepancy in the record of staff details (item C) and student enrolment (item E) is higher in Dhalai District than West Tripura District. In all other items Dhalai has lower discrepancy rate.

4.2 Concluding Observations

1. Comparing the 19 blocks in the two districts it is observed that the block with lowest discrepancy rate (2.16), is Ambassa Block in Dhalai District (Table 3.1).
2. Among the 19 blocks the highest discrepancy (5.5) is observed in Khowai Block in West Tripura District (Table 2.1).
3. Discrepancy rate is lowest in primary schools in both the districts and all schools taken together.
4. Record of Staff details involves highest number of discrepancies in both the districts.

5. Discrepancy is also high in record of school facilities and enrolment in various years.

6. Regarding school location and school particulars discrepancies are comparatively lower in both the districts.

4.3 Suggestions

The investigators feedback schedule reveals that only in 53 percent of schools surveyed in West District, the year end summary details of all grades were available with the principal. Twenty per cent of all schools could not provide data from a single register. Seventy one percent of total schools surveyed did not have the photocopy of the DCF in the school. **In view of the above, it is observed that more training is needed at the school level for the proper maintenance of records.**

The queries in the investigators feedback schedule are to be answered mostly with yes and no. However, a reformulation of the questions may lead to interesting details. For example, instead of asking whether teachers come regularly in school, one may ask the number of teachers present in the school on the date of survey. Then an indicator like average attendance rate of teachers may be calculated and comparisons may be made at various levels. **Similar modifications or reformulations may be made in with respect to many other questions in the Investigator's Feedback Schedule.**

Because of time gap between initial data record by the school and the sample check exercise, the staff details undergoes changes and this is reflected in data discrepancy. In item E queries on enrolment are posed in the form of five tables. As a result discrepancy in one entry causes multiple discrepancies. Discrepancy is also high regarding facilities in school. This also appears to be due to the time gap, as many facilities have come up at the time of the sample check, which were recorded as absent

initially. **A system should be developed so that the data validation exercise is conducted routinely in time.**