Morang District Profile & Annual Report

2061/62 Fiscal Year

Editor Nawa Raj Subba

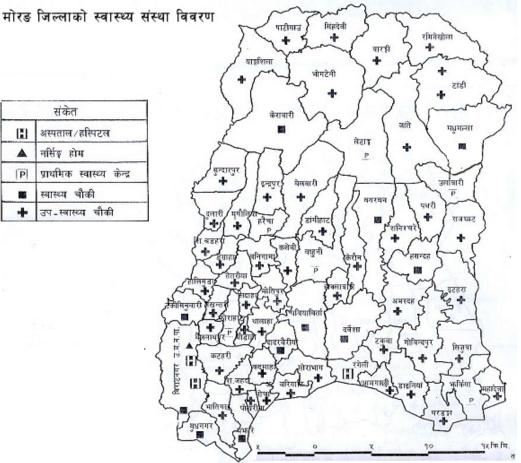
Ministry of Health Department of Health Services Eastern Regional Heath Directorate **District Public Health Office** Morang, Nepal

CHAPTER 2

INTRODUCTION

MORANG: General Background

Historically, Morang district has been derived from *Mawarang*, the name of *Kirati* administrative zone during regime of *Kirati* king *Hang*.¹ *Gograha* was its older name of present Biratnagar; headquarter of the district and Koshi zone, coined during *Ranna* regime which is connected with the name of King *Birat* of *Mahabharat* era. Now people believe that the capital of King *Birat* of that Mahabharat era was located at present Budhanagar V.D.C. which is 10 Km south east from Biratnagar. Morang district is one of the Eastern Terai district comprising 65 VDCs where 66 governmental health institutions are available for providing Primary Health Care services.



Geographical Location

- ✤ Eastern Terai district
- Adjoining districts: Panchthar, Ilam, Jhapa, Sunsari, Dhankuta
- ✤ Area : 1,855 S.Km.
- Total Population: 914,799
- Biratnagar Sub-metropolitan Population: 181,000
- Number of VDCs
- Sub-Metropolitan City : 1
- ✤ Number of Ilakas∶ 17

: 65

:7

Electoral Constituencies

Health Institutions

- Hospitals: 2 (Koshi Zonal, Rangeli Hospital)
- Primary Health Care Centres: 6
- (Jhorahat, Haraicha, Mangalbare, Letang, Bahuni, Jhurkia)
- ✤ Health Posts: 11
- (Babiyabirta, Bayarban, Rani, Ranjani, Budhnagar, Dadarbairiya, Hasandaha, Kerabari, Madhumalla, Majhare, Tankisinwari)
- ✤ Sub Health Post: 49
- ✤ FCHV: 655 (VDCs=585, Biratnagar Sub metro=70)
- ✤ TBAs= 336, EPI-ORC= 303
- ♦ PHC-ORC= 281 (Fund raised Rs. 33,718.00)
- ✤ Ayurvedic= 2, Nursing Home: 7, Pvt. Hospital =2

S.No.	Indicators	Morang	National
1.		67.28 Yrs	60.98 Yrs
2.	Life Expectancy (Female)	67.78 Yrs	61.5 Yrs
3.	Life Expectancy (Male)	66.85 Yrs	60.5 Yrs
4.	Adult Literacy	52.3%	48.6%
5.	Adult Literacy (Female)	39.9 %	34.9%
6.	Adult Literacy (Male)	64.9%	62.7%
7.	Human Development Index (HDI)	0.531	0.471
8.	Proportion of Malnourished Children under 5 years	41.5%	50.5%
9.	Access of Safe drinking water	94.07%	20.48%
10.	Proportion of below poverty line	34.4%	39.6%
11.	Average duration of School stay		
12.	Average duration of School stay (Female)	2.58 Yrs	1.95 Yrs
13.	Average duration of School stay (Male)	4.31 Yrs	3.56 Yrs
14.	Proportion of Income (Female)	0.363	0.345
15.	Proportion of Income (Male)	0.527	0.485
16.	Gender Development Index	0.511	0.452
17.	Gender Development Index/Human Development Index	0.963	0.959
18.	Women involvement in local level election	18.78%	19.33%
19.	Women involved in any occupation	18.38%	18.78%
20.	Women involved in administration sector	15.01%	12.71%
21.	Proportion of women income	0.271	0.302
22.	Gender Empowerment Measurement	0.399	0.391
23.	Gender Empowerment status of Morang in country	20 th position	
24.	Number of Factory	2961	
25.	Organizations for social service	912	
26.	Per Capita Income (in market value)	21871 (\$297)	
27.		0.451	0.406
	Economic Empowerment Index	0.506	0.337
29.	Political Empowerment Index	0.919	0.646
	Human Empowerment Index	0.625	0.463
31.	Human Empowerment Index Order in the country	5 th	

MORANG: Human Development Indicators 2001²

As per Human Development Indicators published by UNDP, Morang district is found in first position in Eastern development region.

CHAPTER 2

ANNUAL REPORT (F.Y. 2061/62)

_Population:	914799
Male:	458772
Female:	456027
Under 1 year's population:	22870
Under 3 year's population:	70352
Under 5 year's population:	118289
MWRA:	174510
Expected Pregnancy:	34945

Table 1 Target Population (Programme wise)

Major Achievements

1. CHILD HEALTH

1.1 Expanded Programme on Immunization (EPI)

1.1.1 Background:

EPI is a priority national programme of HMG/N which has been running nation wide since 1989. Active surveillance system is weak; therefore it is difficult to measure the impact of the programme. However, there is no doubt that the programme has contributed significantly towards reduction of infant and child mortality as evidence by reduction of IMR and U5MR over the last decade³. According to the Annual Report published by Ministry of Health, Department of Health Services⁴ noted that measles vaccine coverage rate of Rauthahat was 120 percent, National 85 percent, Eastern development region 88 percent and Morang 95 percent in FY 2060/61. However the BCHIMES⁵ survey conducted in early 2000 and DHS survey 2001⁶ indicate that the actual coverage is lower than the reported coverage by 5-10%. The Multi Year Plan of Action 2002-2007 (MYPOA) has set six objectives: 1) increasing routine immunization coverage to >90% and maintain the level; 2) eradication of poliomyelitis by 2005; 3) elimination of MNT by 2005; 4) reduction of measles cases and deaths; and 5) introduction of Hep-B vaccine and 6) promotion of safe injection practices in immunization programme.

1.1.2 Objectives:

- To eliminate neonatal tetanus (less than 1 cases per 1000 live births) by the year 2005;
- To reduce measles cases by 90% and measles death by 95% from the previous level by the year 2005.
- To obtain certificate of poliomyelitis eradication by the year 2005.
- To introduce new vaccine (Hepatitis B).

1.1.3 Targets:

The target population for BCG, DPT, OPV, and Measles vaccines is all infants under one year (12 months) of age. For TT+, the target population is all pregnant women. The EPI covers all the 16 districts in eastern region. It aims to have uniform coverage in all the districts and sustain high levels of coverage (i.e. at least 80% for BCG, DPT 3, OPV 3, and Measles in children under one year and 80% coverage for TT+ vaccine in pregnant women.

1.1.4 Strategies:

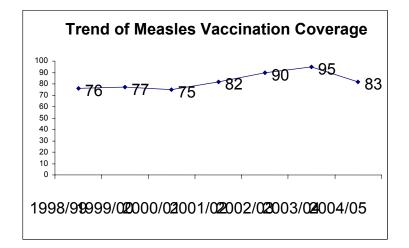
- Immunization service delivery mainly through outreach sessions, provision of immunization services by conducting 3-5 sessions per VDC per month, in the district.
- Use of all fixed sites to increase immunization coverage. EPI services provided through fixed health facilities including Hospitals, PHC, HP, SHP and other health clinics.
- Supplementary immunization activities (NIDs, SNIDs, Mopping up) for polio eradication and MNTE activities for maternal and neonatal tetanus elimination.
- Control of outbreak of VPDs through appropriate interventions.

1.1.5 Analysis:

Program/ Activities	Units	Target	Achievement	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
BCG	Person	22550	21451	94		1. Measles
DPT3	"	22550	16704	73		Campaign, 2. Frequent
Polio3	>>	22550	18368	82		training for
Hep-3	"	22550	20593	91		health workers due to piloting
MEASLES		22550	18363	81	75.0	programmes,
TT2		35006	21673	62	75.8	3. Shortage in supply of
Cold Chain training	Times	1	1	100		vaccine for 3 months.
Micro Planning/ DDC	"	1	1	100		
U	22	1	1	100		montifs

Table 2 Target Vs Achievement

Graph 1 Trend of Measles vaccination coverage



Trend of measles vaccination seems running above 75 percent over past 7 years. This year coverage was dropped to 82 percent due to measles campaign, frequent movement of health workers due to series of trainings, and shortage of vaccine supply for three months.

									Г
S.N.	VDCs	Taget	Achievment	%		S.N.	VDCs	Taget	
1	Aamgachhi	137	313	228		34	Hasandaha	292	
2	Rangeli	406	733	181		35	Madhumalla	522	
3	Nocha	104	137	132		36	Mahadewa	122	
4	Dainiya	328	407	124		37	Urlabari	698	
5	Bardanga	265	318	120		38	Tankisinuwari	447	
6	Budhanagar	327	383	117		39	Singdevi	74	
7	Jhurkiya	267	305	114		40	Katahari	509	
8	Sorabhag	278	316	114		41	Bhaudaha	168	
9	Warangi	92	104	113		42	Tetariya	151	
10	Amahibariyati	163	183	112		43	Keroun	337	
11	Thalaha	205	227	111		44	Bayarban	549	
12	Sis. Jahada	194	213	110		45	Indrapur	465	
13	Sub Metro Brt	4540	4932	109		46	Govindapur	406	
14	Pokhariya	75	81	108		47	Motipur	141	
15	Dadarbairiya	215	229	107		48	Rajghat	345	
16	Majhare	242	249	103		49	Takuwa	198	
17	Dangraha	136	139	102		50	Sanischare	642	
18	Tandi	265	270	102		51	Darbesha	453	
19	Yangsila	182	186	102		52	Jante	196	
20	Baijanathpur	122	122	100		53	Haraicha	172	
21	Belbari	530	529	100		54	Dangihat	526	
22	Sijuwa	308	305	99		55	Mirgouliya	350	
23	Sis. Badahara	130	128	99		56	Amardaha	384	
24	Letang	456	447	98		57	Itahara	422	
25	Hoklabari	127	124	97		58	Pathari	586	
26	Dulari	277	267	96		59	Babiyabirta	393	
27	Kadmaha	195	188	96		60	Bahuni	333	
28	Hattimuda	215	207	96		61	Pati	65	ſ
29	Bhatigachha	306	289	94]	62	Sundarpur	423	ſ
30	Banigama	218	200	92	1	63	Ramitekhola	86	
31	Jhorahat	131	116	88]	64	Kaseni	195	Γ
32	Kerabari	425	369	87]	65	Sidraha	102	ſ
33	Lakhantari	109	93	86		66	Bhogteni	150	
							District	22870	

Achievment

%

Table 3 VDC wise BCG coverage in Morang

BCG coverage is heterogeneous which ranges from Aamgachi 222 percent to Bhogteni 55 percent in the district.

S.N.	VDCs	Taget	Achievment	%	S.N.	VDCs	Taget	Achievment	%
1	Aamgachhi	137	287	210	34	Kerabari	425	295	69
2	Jhurkiya	267	329	123	35	Bhaudaha	168	113	67
3	Sorabhag	278	339	122	36	Jante	196	130	66
4	Mahadewa	122	133	109	37	Warangi	92	60	65
5	Rangeli	406	436	108	38	Jhorahat	131	85	65
6	Dainiya	328	348	106	39	Katahari	509	326	64
7	Nocha	104	110	106	40	Hoklabari	127	81	64
8	Thalaha	205	210	102	41	Hasandaha	292	180	62
9	Dadarbairiya	215	219	102	42	Yangsila	182	112	61
10	Majhare	242	246	102	43	Haraicha	172	105	61
11	Kadmaha	195	197	101	44	Takuwa	198	120	61
12	Dangraha	136	133	98	45	Tandi	265	158	60
13	Bardanga	265	259	98	46	Bayarban	549	318	58
14	Pokhariya	75	73	97	47	Sanischare	642	370	58
15	Amahibariyati	163	151	92	48	Motipur	141	81	58
16	Baijanathpur	122	112	92	49	Hattimuda	215	122	57
17	Belbari	530	459	87	50	Pati	65	37	57
18	Lakhantari	109	94	86	51	Babiyabirta	393	222	57
19	Budhanagar	327	278	85	52	Kaseni	195	108	55
20	Sis. Jahada	194	159	82	53	Bhogteni	150	82	55
21	Banigama	218	177	81	54	Madhumalla	522	284	54
22	Sub Metro Brt	4540	3663	81	55	Pathari	586	317	54
23	Sijuwa	308	244	79	56	Rajghat	345	186	54
24	Sis. Badahara	130	102	79	57	Govindapur	406	217	53
25	Bhatigachha	306	240	78	58	Itahara	422	225	53
26	Tankisinuwari	447	345	77	59	Sidraha	102	54	53
27	Dulari	277	207	75	60	Singdevi	74	39	53
28	Keroun	337	250	74	61	Ramitekhola	86	44	51
29	Letang	456	328	72	62	Dangihat	526	259	49
30	Indrapur	465	332	71	63	Bahuni	333	160	48
31	Darbesha	453	319	70	64	Amardaha	384	181	47
32	Tetariya	151	106	70	65	Sundarpur	423	197	47
33	Mirgouliya	350	245	70	66	Urlabari	698	318	46
						District	22870	16716	73

Table 4 VDC wise DPT 3 Coverage in Morang district

DPT 3 coverage is heterogeneous which ranges from Aamgachi 210 percent to Urlabari 46 percent in the district.

Table 5 VDC wise Measles vaccine coverage in Morang

S.N.	VDCs	Taget	Achievment	%		S.N.	VDCs	Taget	Achievment	%
1	Aamgachhi	137	247	180		34	Bahuni	333	280	84
2	Warangi	92	144	157		35	Bhaudaha	168	139	83
3	Sorabhag	278	422	152		36	Tankisinuwari	447	368	82
4	Mahadewa	122	142	116		37	Ramitekhola	86	71	82
5	Belbari	530	601	113		38	Sanischare	642	518	81
6	Amahibariyati	163	181	111		39	Sis. Jahada	194	156	80
7	Jhurkiya	267	294	110		40	Lakhantari	109	86	79
8	Jante	196	215	110		41	Sub Metro Brt	4540	3572	79
9	Rangeli	406	440	109		42	Bhogteni	150	116	77
10	Dadarbairiya	215	230	107		43	Bhatigachha	306	235	77
11	Pokhariya	75	79	105		44	Pati	65	50	77
12	Yangsila	182	187	102		45	Tandi	265	200	76
13	Hoklabari	127	129	101		46	Madhumalla	522	393	75
14	Baijanathpur	122	121	99		47	Indrapur	465	347	75
15	Banigama	218	214	98		48	Pathari	586	430	73
16	Hasandaha	292	287	98		49	Jhorahat	131	96	73
17	Kadmaha	195	187	96		50	Sijuwa	308	224	73
18	Bardanga	265	254	96		51	Urlabari	698	497	71
19	Letang	456	436	96		52	Katahari	509	356	70
20	Dainiya	328	311	95		53	Budhanagar	327	224	68
21	Nocha	104	98	94		54	Dangihat	526	354	67
22	Dangraha	136	128	94		55	Govindapur	406	271	67
23	Sis. Badahara	130	122	94		56	Babiyabirta	393	257	65
24	Dulari	277	259	94		57	Singdevi	74	47	63
25	Hattimuda	215	198	92		58	Takuwa	198	119	60
26	Kerabari	425	391	92		59	Itahara	422	253	60
27	Rajghat	345	317	92		60	Amardaha	384	223	58
28	Keroun	337	306	91		61	Kaseni	195	110	56
29	Majhare	242	215	89		62	Darbesha	453	250	55
30	Mirgouliya	350	304	87		63	Sidraha	102	54	53
31	Thalaha	205	175	85] [64	Haraicha	172	86	50
32	Tetariya	151	128	85		65	Sundarpur	423	200	47
33	Bayarban	549	463	84		66	Motipur	141	63	45
							District	22870	18870	83

DPT 3 coverage is heterogeneous which ranges from Aamgachi 180 percent to Motipur 45 percent in the district.

Measles Campaign 2061



Measles campaign 2061 was introduced first time in the country. Campaign was three week long. Many rumors raised during campaign by which programme was affected. DPHO Morang, health workers, volunteers, teachers, students, civil society, human right activist, NGOs and media played important role. Overall coverage of measles vaccination was 85% in the district.

Category 1	Category 2	Category 3	Category 4
Low Drop Out Rate (<10)	High Drop Out Rate (>10)	Low Drop Out Rate (<10)	High Drop Out Rate (>10)
High Coverage (>80)	High Coverage Rate (>80)	Low Coverage Rate (>80)	Low Coverage Rate (<80)
Bhaudaha, Bahuni,	Thalaha,	Sidraha,	Motipur, Sundarpur,
Bayarban, Tetariya,	Majhare,	Kaseni,	Haraicha, Ranjani,
Mirgouliya, Keroun,	Nocha,	Babiyabirta,	Amardaha, Itahara,
Kerabari, Hattimuda,	Dainiya,	Pathari,	Takuwa, Singdevi,
Dulari, Sis. Badahara,	Bardanga,	Indrapur,	Govindapur, Dangihat,
Dangraha, Letang,	Rangeli, Aamgachhi,	Pati,	Budhanagar, Katahari,
Kadmaha, Hasandaha,	District	Bhogteni,	Urlabari, Sijuwa,
Banigama, Baijanathpur,		Lakhantari, Sanischare,	Jhorahat, Tandi A+B,
Madhumalla, Hoklabari,	(7 Health Facilities)	Ramitekhola,	Bhatigachha, Rani,
Yangsila, Pokhariya,		Tankisinuwari	Siswani Jahada,
Dadarbairiya, Jante,			
Jhurkiya, Amahibariyati,		(11 Health Facilities)	(20 Health Facilities)
Belbari, Mahadewa,			
Sorabhag, Warangi,			
(28 Health Facilities)			
No Problem	Priority 3	Priority 2	Priority 1

Table 6 VDCs Categorized with Problems and priority 2060/61

About half of VDCs of Morang district is having coverage more than 80 percent and drop out rate less than 10 percent. District average falls under the category 2.

1.1.6 Problems/Constraints And Action To Be Taken

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
Shortage of vaccine	Requested RMS and	DPHO, EPIS	ASAP
supply for 3 months	LMD		
Frequent Bandhs affected			
vaccine supply			
Frequent trainings	Action has taken to	DPHO	ASAP
affected service flow	minimize the effect		

1.2 Nutrition

1.2.1 Background:

Malnutrition is a major health problem among the children and women of childbearing age in the country. Growth monitoring, micro-nutrients distribution, de-worming, Vitamin "A" distribution, promotion of breastfeeding and control of anemia are being carried out in order to promote health of child and women under the nutrition program.

1.2.2 Objectives:

- To reduce protein malnutrition among the children under 3 years of age through multi sartorial approach.
- To eliminate Iodine deficiency disorder and vitamin a deficiency by 2005;
- To reduce prevalence of anemia to less than one third by the year 2010;
- To reduce the incidence of low birth –weight to less than 10% of all births by the year 2005.

1.2.3 Target:

- Reduction of sever and moderate malnutrition among children under 3 years of age to half of the 1990 level by the year 2005;
- Reduction of iron deficiency anemia of expected pregnancies by one third of the 1990; Level by the year 2005.
- Reduction of vitamin "A" deficiency among children under five years of age by 90% in all districts by preventive measures by the year 2005.

1.2.4 Strategies:

- Promote, facilitate and utilize community participation and involvement for all nutrition activities.
- Integrate/incorporate EPI/FP/MCH and related activities in the nutrition plans.

1.2.5 Analysis:

Program/ Activities	Units	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Growth Monitoring	Person	70352	35369	50		1. Measles
Deworming	"	93862	106230	100		Campaign, 2. Frequent
Anemia	>>	29755	17372	58		training for
Vitamin "A" Distribution	"	105595	120643	100		health workers due to piloting
Treated by Vitamin "A"	"	10560	2191	21		programmes
Albendazole Distribution for Pregnant Mother	>>	10501	8774	84	75	
Supervision	Time	2	2	100		
Nutrition Review meeting	"	3	0	0.0		
Logistic Supply	22	2	2	100		
Breast Feeding week celebrate	"	1	1	100		
Iodine month Celebration	Time	1	1	100		

Table 7 Nutrition: Target Vs Achievement

Table 8 VDC wise New growth monitoring in Morang

S.N.	VDCs	Taget	Achievment	%		S.N.	VDCs	Taget	Achievment	%
1	Dulari	852	1314	154		34	Tetariya	464	270	58
2	Singdevi	228	300	132		35	Madhumalla	1604	910	57
3	Motipur	432	539	125		36	Sis. Jahada	596	330	55
4	Hasandaha	899	1055	117		37	Belbari	1630	894	55
5	Yangsila	561	629	112		38	Kadmaha	600	326	54
6	Dangraha	418	450	108		39	Dainiya	1009	537	53
7	Banigama	670	678	101		40	Dangihat	1616	831	51
8	Aamgachhi	421	404	96		41	Sundarpur	1303	664	51
9	Kaseni	601	571	95		42	Sorabhag	856	427	50
10	Thalaha	631	590	94		43	Bhaudaha	517	252	49
11	Tandi	814	749	92		44	Indrapur	1432	688	48
12	Babiyabirta	1209	1109	92		45	Bardanga	815	388	48
13	Amahibariyati	502	455	91		46	Letang	1403	668	48
14	Mahadewa	375	336	90		47	Ramitekhola	266	123	46
15	Majhare	743	649	87		48	Mirgouliya	1077	482	45
16	Sis. Badahara	399	348	87		49	Takuwa	608	261	43
17	Warangi	282	229	81		50	Keroun	1037	439	42
18	Rajghat	1061	848	80		51	Jhorahat	404	159	39
19	Bhogteni	462	350	76		52	Baijanathpur	375	140	37
20	Bahuni	1024	761	74		53	Bayarban	1688	628	37
21	Amardaha	1181	877	74		54	Sijuwa	947	338	36
22	Tankisinuwari	1375	1006	73		55	Kerabari	1307	452	35
23	Pokhariya	231	169	73		56	Lakhantari	334	108	32
24	Budhanagar	1007	733	73		57	Govindapur	1249	397	32
25	Urlabari	2148	1545	72		58	Haraicha	528	166	31
26	Hoklabari	392	279	71		59	Katahari	1567	473	30
27	Nocha	320	206	64		60	Bhatigachha	941	283	30
28	Darbesha	1393	880	63		61	Itahara	1298	387	30
29	Hattimuda	661	412	62		62	Sanischare	1974	485	25
30	Jhurkiya	821	502	61		63	Pathari	1801	439	24
31	Dadarbairiya	660	401	61		64	Sidraha	313	70	22
32	Jante	603	364	60		65	Rangeli	1247	215	17
33	Pati	201	120	60		66	Sub Metro Bir	13965	2298	16
					•		District	70348	35386	50

New growth monitoring coverage is heterogeneous which ranges from Dulari 154 percent to Biratnagar 16 percent in the district.

Growth monitoring for 0-3 yr. children was done by 60 percent. Likewise, 0-5 yrs. children were covered by 100 percent in Vitamin A and deworming. Prevalence of anaemia under three year children was 58 percent in the district. According to Nepal Micro Nutrient Survey 1998⁷, the prevalence of current night blindness was high among pregnant women (6.1%) with the highest rates recorded in East Terai (13.4%) and East hills (9.3%). The survey noted that more than 1% of all school aged children had night blindness with the prevalence increasing with age. There has been little improvement in the nutritional status of children as measured by stunting over the last 23 years. The prevalence of stunting among 6-59 months has reduced by only 15.3 percentage points, from 69.4% to 54.1%. Thus, it is clear that past programmes and policies have not been sufficient and/or appropriate.

Iodine Month Observed



Iodine Month was observed in the district in the collaboration with partners. Awareness programmes such as displaying banners, posters, producing pamphlets, conducting orientations, use of print and electronic media were held as a part of the programme. DPHO Morang was joined by Salt Trading Corporation, Nursing Campus, Aama Milan Kendra, Red Cross, Help Group, BNMT and Plan Nepal during Iodine month.

Breast Feeding Week Observed



Breast feeding week was observed in the district with different women groups and mother groups. *Sancharika Samuha*, a women journalists group which is active in awareness programme and income generation programme in Biratnagar sub-metropolitan ward number 15. Articles were published in local newspapers and FM programme was also conducted awareness programme on the breast feeding week.

1.2.6 Problems/Constraints and Action to be Taken

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
Shortage of Weighing	Requested Supporting partners	DPHO	ASAP
machine in HIs			
Inadequate supervision	DPHO supervisors and	DPHO	ASAP
	supervisors from supporting		
	partners attempted		

1.3 Control of Diarrhoeal Disease (CDD)

1.31 BACKGROUND:

Diarrhoeal disease is one of the major public health problems among under 5 years of children in the region and holds 3rd. position in OPD visit. Death rate is also quit high among less than 5 years of age. Case management service is provided through all health facilities. Community volunteers are serving as primary ORS providers at the community level. ORT corners are being established gradually in PHC/HP/SHP.

1.3.2 OBJECTIVES:

- To reduce the mortality due to diarrhoea and dehydration (from estimated 30000 deaths per year) to a minimum and
- To reduce morbidity from 3.3 episodes per child per year to a minimum.

1.3.3 TARGETS:

- To reduce mortality rate due to diarrhoeal disease by 50% in under 5 years of children
- To reduce morbidity rate due to diarrhoeal disease by 20% in under 5 years of children.
- To raise accessibility of ORS to target population by 90%.
- To raise awareness about ORS use in the treatment of diarrhoea

1.3.4 STRATEGIES:

- By increasing awareness in the community through mobilization of community health workers and volunteers.
- By ensuring availability of ORS packets and antibiotics.
- By establishing ORT corners in all peripheral health institutions.

1.3.5 ANALYSIS OF ACHIEVEMENT BY MAJOR ACTIVITIES:

Control of diarrhoeal diseases is one of the priority programmes. Table 3 indicates treatment of diarrhoeal cases has exceeds its target. U5 children are estimated to get sick from diarrhoea three times a year. Targets are set accordingly. Table suggests good access to health care. FCHVs working at every ward of VDCs are to be accounted for the good result.

Program/ Activities	Unit	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Treated of Diarrhea cases/	Person	20522	41695	100		
Supervision ORS Purchase	Pkt.	93760	48000	51		
ORS Supply	"	93760	37000	39		

Table 9 Target Vs Achievement

DPHO Morang failed to achieve the target to purchase ORS. It has taken initiative for purchasing ORS from Royal Drugs Limited (RD) in time. But RD and its suppliers informed inability of supply very late. After getting the report from RD and its suppliers, DPHO Morang adopted another option of purchasing ORS from free market. Suppliers from open market also proved to be unable for supplying the full requirement of ORS. We asked for support from Logistic Management for additional supply. Nepal Family Health Programme (NFHP) played important role by supporting to maintain the EOP level of store located in all institutions around the year. With the help of NFHP we took 5000 packets of ORS from

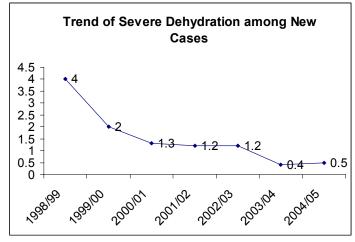
District Health Office Sunsari to maintain the buffer stock of ORS. Under these circumstances, DPHO Morang issued letters to all under health institutions to maintain their EOP level by purchasing ORS by their CDP programme as per required. Health institutions used to buy ORS from market as a part of CDP programme following its regulation.

Coverage

Table 10 Incidence of CDD			
Indicators	2059/060	2060/061	2061/062
Incidence of Diarrhea/1,000	349	398	385
% of Severe Dehydration among new cases	1.2	0.4	0.5

It is noted that incidence of diarrhoeal diseases per 1000 population and percentage of severe dehydration among new cases is in decreasing trend in Morang district. In FY 2060/61, Morang was second highest in reporting Incidence of diarrhoea per 1000 U5 population and was lowest in reporting percentage of severe dehydration among new cases⁸. This indicates the good level of awareness on control of diarrhoeal diseases in community.

Graph 2 Trend of Severe Dehydration among New Diarrhoeal Cases



Trend of severe dehydration among new diarrhoeal cases is in decreasing trend over past seven years in Morang district.

1.2.6 Problems/Constraints and Action To Be Taken

Problem/Constraints	Action to be Taken	Responsibility	Time Frame	
ORS supply was inadequate	Support taken from LMD	DPHO	ASAP	
to meet demand				

1.4 Acute Respiratory Infection (ARI) Program:

1.4.1 Background:

Acute Respiratory Infections are one of the commonest causes of death in children under 5 years of age. It is also a major public health problem and control of ARI is an integral part of primary health care. The program recognizes an important role of mothers and caretakers in Identification, Home care and Referral of pneumonia cases. Clinical experience and intervention studies have indicated that early treatment with antibiotics can reduce mortality from pneumonia. Many pneumonia deaths occur at home, some after only a few days of illness. The key to reducing ARI mortality is to ensure better access to and timely use of

correct case management of pneumonia. Morang has got community based pneumonia program, where FCHVs treat the pneumonia cases with first line drug (Cotrimoxazole Pad. Tabs) and if child had any danger signs they would refer to the nearest Health facilities.

1.4.2 Objectives:

• To improve the situation of child health in Nepal by reducing mortality and morbidity due to ARI among under 5 years of children.

1.4.3 Targets:

- To reduce mortality from pneumonia in under 5 years of children.
- To reduce morbidity due to ARI in under 5 years of children.

1.4.4 Strategies:

• Raising public awareness through mobilization of community health workers and volunteers by ensuring availability of antibiotics.

1.4.5 Analysis of Achievement by Major Activities:

Table 11 Target Vs achievement

Program/ Activities	Unit	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Treated of Pneumonia Cases	Person	11417	30498	100.0	64.6	

Like CDD programme, the achievement of treated Pneumonia cases is higher than its target. A reason of this is access of service provided by FCHV at community level. It is clear that community based pneumonia can be done, and in Nepal, has resulted in a dramatic increase in the percent of expected cases treated. There is good evidence showing that quality of care is good, that misdiagnosis is unlikely, that correct treatment is usual, and that referral patterns improve. It also appears that the model used for this programme is likely to establish a foundation, which will allow community based treatment to be sustained. The relationship between the community workers providing the treatment and the communities they serve becomes strong, providing an incentive for the worker and ongoing service to the community.⁹

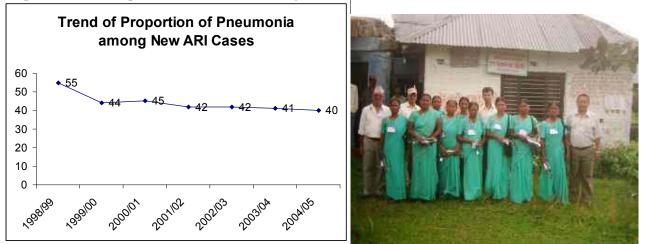
Coverage

Table 12 Incidence of ARI and Pneumonia

Indicators	2059/060	2060/061	2061/062
Incidence of ARI/1000	591	657	648
% of pneumonia among new cases	1.0	0.8	0.8

Both incidence of ARI and percentage of Pneumonia among new cases are in decreasing trend in Morang district. The contribution of FCHV in this programme has been felt and appreciated by community in Morang.

Graph 3 Trend of Proportion of Pneumonia among New ARI Cases



ARI is one of the major causes of child morbidity and mortality in the district. FCHV are playing vital role in serving ARI suffering children in the community. FCHV are trained for diagnosis and treatment of ARI. FCHV examines a child with her timer by counting respiration rate. She offers counseling for home treatment or treats with Cotrimoxazole or refers to health institutions.

1.5 Neonatal Health Programme or Morang Initiative for Neonatal Intervention (MINI)

Of the 130 million babies born every year, about 4 million die in the first 4 weeks of life-the neonatal period. A similar number of babies are stillborn.¹⁰ The time has come for these health interventions for newborn babies to be integrated into maternal and child health programmes, which in turn need to be strengthened and expanded. Proven cost-effective interventions, delivered through a continuum-of-care approach, can prevent millions of needless deaths and disabilities. In Nepal 3-4 neonates dies every hour.¹¹ Direct causes for neonatal deaths in Nepal are Infection, Birth Asphyxia trauma, Pre-maturity and Hypothermia. DPHO Morang is proud to note that the district has been selected for piloting for Neonatal health intervention. Since, Infant mortality rate still high in the country and major proportion of its has been comprised by Neonatal deaths. So, infant mortality will be down until and unless decrease in neonatal mortality. Reviews of literatures and researches have established the strategy as Neonatal intervention. Ministry of Health has formulated policy and guidelines for neonatal health programmes in the country. The success of Morang district's neonatal health programme opens horizon for replication of the programme in other district of the country. DPHO Morang has made joint effort in collaboration with JSI R&T under Morang Innovative Neonatal Intervention (MINI) since 2004.



Of course, to treat a neonate is challenging. Programmes demands hard working of health workers and FCHVs. Health workers are offering additional effort for home treatment. The treatment with Gentamycin has cured infected neonates. Community has paid due recognition to the service providers. Community is also getting aware even to take out their neonates from the home for treatment. However, FCHVs are taking this programme as both opportunity and challenge. Series of trainings at different levels completed. Health workers and FCHVs are now well trained for neonatal health care. The preliminary data analysis explains its effectiveness and acceptance.

1.6 Community Based –Integrated Management of Child Illness (CB-IMCI)

The IMCI intervention is integrated case management of the five most important causes of childhood deaths – ARI, Diarrhoea, Measles, Malaria and Malnutrition. The strategy includes a range of other preventive and curative interventions, which aim to improve practices both in the health facilities and at home.



Ten batches of twenty peoples in each batch training concluded resulting more than 200 trained health workers for IMCI. Plan Nepal supported financially. NEPAS and Koshi Zonal Hospital supported technically for the training. Evaluation of the training was also concluded with the help of NEPAS and Plan Nepal.

The result of the training is expected to be reflected into the quality care of U5 children. It can be measured by qualitative method and takes time. However, recommendation from the evaluation noted that there is still room to improve the practices of health workers.

1.2.6 PROBLEMS/CONSTRAINTS AND ACTION TO BE TAKEN

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
More time of HWs was	Tried to minimized the	DPHO	ASAP
consumed by trainings	effect		

2. Reproductive Health

2.1 Family Planning

2.1.1 BACKGROUND:

The main thrust of the National Health Policy (1991) related to the National Reproductive Health and Family Planning (RH/FP) Programme is to expand and sustain adequate quality family planning services to the community level through all health facilities. The policy also aims to encourage NGOs, social marketing organizations, as well as private practitioners to complement and supplement government efforts. Community-level volunteers (TBAs, FCHVs) are to be mobilized to promote condom distribution and re-supply of oral pills. Awareness on RH/FP is to be increased through various IEC/BCC intervention as well as active involvement of FCHVs and MGs as envisaged by the National Strategy for FCHVs.

In this regard, FP services are designed to provide a constellation of contraceptive methods that reduce fertility, enhance maternal and neonatal health, child survival, and contribute to bringing about a balance in population growth and socio-economic development, resulting in an environment that will help the Nepalese people to improve their quality of life.

2.1.2 **OBJECTIVES:**

Within the context of RH, the main objectives of FP Programme are to assist individuals and couples to:

- Space and/or limit their children;
- Prevent unwanted pregnancies;
- Manage infertility and
- Improve their overall reproductive health.

2.1.3 TARGETS:

- To reduce TFR from 4.1 per women to 3.5 by the end of 10th Five Year Plan and to 3.05 in 2017
- To rise the CPR to 47% by the end of 10th 5 Year Plan period and to 58.2% by 2017.
- To achieve approx. 2,293,000 couples using modern contraception by end of 10th Five Year Plan.
- To achieve approximately 536,288 Family Planning Current Users and 23,025 Voluntary Surgical sterilizations cases in Eastern development region in 2060/61

2.1.4 STRATEGIES:

- Increasing the knowledge and understanding of the benefits of delayed marriage, birth spacing, and a well planned family norm across the region through integrated RH/ FP/IEC and BCC activities;
- Increasing accessibility and availability of RH/FP services through a combination of approaches;
- Expanding regular year-round and mobile VSC outreach services;
- Expanding IUCD services with special emphasis on thorough counseling and follow-up services;
- Training service providers in collaboration with NHTC;
- Improving the quality of care in accordance with the NMS for contraceptive services;
- Establishing management & treatment services for complications of abortion, including FP services;
- Ensuring adequate supply & distribution of contraceptives at regional, district & below district level;
- Strengthening HMIS for better management of FP programmes;
- Ensuring effective monitoring and supervision of FP programmes and
- Re-supplying pills and distributing condom through FCHV.

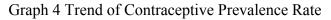
2.1.5 ANALYSIS OF ACHIEVEMENT:

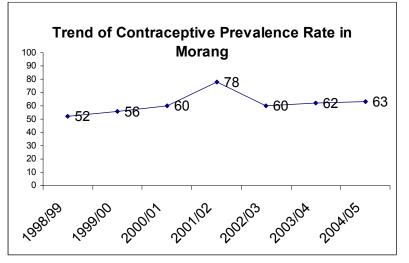
Table 13 Achievement of Programme

Program/ Activities	Unit	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Current users	Person	146000	110487	75.7		
Sterilization	>>	6840	8160	100.0	66.1	

Table 14 Trend of Family Planning Programme Coverage

Indicators	2059/060	2060/061	2061/062
Contraceptive Prevalence Rate (CPR as % of MWRA)	65.0	62.94	63.3
Condom(%CPR Method Mix)	2.7	2.1	2.0
Pills(%CPR Method Mix)	5.02	3.16	3.1
Depo(%CPR Method Mix)	14.70	12.39	11.9
IUCD(%CPR Method Mix)	1.10	1.42	1.6
Norplant(%CPR Method Mix)	1.52	1.81	1.4
VSC(%CPR Method Mix)	40.0	42.0	44.7
Total number of VSC	7456	8270	8160
Male	182	167	120
Female	7272	8103	8040
Total number of VSC in GO sector	3183	3622	3314
Total number of VSC in NGO sector	4273	4848	4846





CPR of Morang which is third highest in Nepal and highest in EDR which is reached 63 percent in FY 2061/62.

2.1.6 PROBLEMS/CONSTRAINTS AND ACTION TO BE TAKEN

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
Shortage of Medical	Requested RHD and	DPHO	ASAP
doctors for VSC	FHD for doctors		

2.2 Safe motherhood

2.2.1 BACKGROUND:

The MoH's Safe Motherhood Programme is the HMG's main thrust to reduce maternal and neonatal mortality by addressing the high rates of death and disability caused by the complications of pregnancy and childbirth. The past strategy of carrying out FP/MCH in an integrated manner, promoting attendance birth through TBAs and promoting ANC visits were not adequate in addressing the issues of MMR. Experience also showed that the avoidance of the three delays was imperative to achieve goal of reduction of maternal mortality. Recognizing that every pregnancy is at risk, two major strategies have been adopted, providing around the clock emergency obstetric care (either comprehensive or basic) and ensuring the presence of skilled attendants at deliveries, especially in the home setting.

However, because the majority of women do not have access to maternal healthcare services due to social, economic, and political factors, medical interventions alone are not sufficient to reduce MMR. Specific non-health approaches are needed. Therefore, the Safe Motherhood Programme takes a multi-sectoral approach to include both health and non-health interventions that promote access to and utilization of services. The long-term goal of the 15-year National Safe Motherhood Plan (2002-2017) envisages establishment of BEOC and CEOC services in all 75 districts, skilled attendance of births & increased access to emergency fund & transport services.

2.2.2 OBJECTIVES:

- To reduce the mortality and morbidity among pregnant women and new born during childbirth and the postnatal period through the adaptation of a combination of health and non-health related measure.
- To improve the quality of antenatal, natal, postnatal and neonatal care through appropriate training of health personnel, including emergency obstetric care.
- To advocate and raise public awareness about safe motherhood related issues.
- To strengthen referral care.
- To improved legal and socio-economic status of women.

2.2.3 **TARGETS:**

- To contribute to the reduction of the maternal mortality rate from estimated rate of 539/100000 live birth to 300/10000 live birth end of Tenth Five year plan.
- To reduce neo-natal mortality rate from 39-to32 per1000 live births by the end of Tenth five year ٠ plan.
- To increase delivery by health workers to 18% by the end of Tenth plan. ٠
- To increase % of woman attending antenatal care 4 times to 25% by end of Tenth plan.

2.2.4 **STRATEGIES:**

- Promoting inter-sect oral collaboration at regional district and community level. ٠
- Strengthening and expanding basic maternal care services. •
- Supporting activities that raise the status of women. •

% **Program**/ Unit Target Achiev % expenditure wrt **Reasons for not** Activities Achieved released budget achieve 100% ement ANC New visit (56%) Person 19603 26938 100.0 Delivery trend HW (16%) 5284 7468 100.0 ,, PNC first visit (18%) 5945 13131 100.0 • •

2.2.5 ANALYSIS OF ACHIEVEMENT:

Table 15 Achievement of Safe motherhood programme

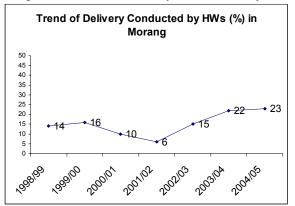
Table 16 Coverage of Safe motherhood programme

Indicators	2059/060	2060/061	2061/062
ANC first visit as a % of expected pregnancy	79.4	72.2	77.1
% of women with 4 th visit among 1 st visit	40.0	54.0	35.4
% of delivery conducted at health institutions (Hospital/PHCC/HP/SHP)	7.5	15.5	16.9
Number of delivery conducted in Hospital	1371	3050	4350
Number of delivery conducted in PHCC	941	1045	1562
% of home delivery attended by HW	9.2	6.7	4.5
Delivery conducted by Health Workers	15	22	23
PNC first visit as % of expected pregnancy	32.2	40.4	38.4

workers is 1 trend which coming year

Trend of del

Graph 5 Trend of Delivery conducted by Health Workers



Trend of delivery conducted by health workers is 22 percent which is in increasing in Morang district.

S.N.	VDCs	ANC First	4 visit	%		S.N.	VDCs	ANC First	4 visit	%
1	Rangeli	196	352	180		34	Sijuwa	549	234	43
2	Govindapur	254	287	113		35	Indrapur	371	157	42
3	Lakhantari	86	93	108		36	Jhorahat	350	147	42
4	Amahibariyati	251	242	96		37	Aamgachhi	194	79	41
5	Tankisinuwari	264	250	95		38	Sis. Badahara	251	96	38
6	Kadmaha	249	205	82		39	Haraicha	454	173	38
7	Rajghat	128	104	81		40	Tandi	217	82	38
8	Darbesha	207	168	81		41	Pathari	339	128	38
9	Dangraha	208	165	79		42	Tetariya	100	37	37
10	Letang	485	369	76		43	Sundarpur	199	72	36
11	Banigama	285	212	74		44	Itahara	338	122	36
12	Amardaha	278	196	71		45	Dadarbairiya	549	180	33
13	Jhurkiya	454	309	68		46	Sis. Jahada	156	50	32
14	Ramitekhola	145	98	68		47	Sub Metro Brt	4383	1390	32
15	Budhanagar	347	233	67		48	Mirgouliya	253	78	31
16	Bhogteni	125	65	19		49	Madhumalla	391	117	30
17	Bardanga	268	164	61		50	Hoklabari	119	35	29
18	Dainiya	338	199	59		51	Bahuni	919	268	29
19	Warangi	103	60	58		52	Dulari	529	154	29
20	Dangihat	203	116	57		53	Takuwa	211	60	28
21	Belbari	621	353	57		54	Keroun	216	61	28
22	Jante	83	45	54		55	Bhaudaha	184	51	28
23	Hattimuda	280	151	54		56	Baijanathpur	141	39	28
24	Pokhariya	126	67	53		57	Katahari	326	86	26
25	Pati	244	123	50		58	Majhare	812	209	26
26	Hasandaha	444	223	50		59	Sidraha	68	17	25
27	Thalaha	380	189	50		60	Urlabari	2788	608	22
28	Bhatigachha	208	99	48		61	Motipur	299	59	20
29	Kerabari	408	194	48		62	Singdevi	97	19	20
30	Mahadewa	95	45	47		63	Kaseni	202	38	19
31	Sanischare	563	265	47		64	Bayarban	1007	187	19
32	Yangsila	50	22	44		65	Sorabhag	709	131	18
33	Nocha	105	46	44		66	Babiyabirta	491	76	15
		•					District	26693	10949	41

Table 17 VDC wise status of 4 ANC visits in Morang

Status of 4 ANC visits in VDCs of Morang district is heterogeneous which ranges from Rangeli 180 percent to Babiyabirta 15 percent in the district.

S.N.	VDCs	Taget	Achievment	%	S.N.	VDCs	Taget	Achievment	%
1	Jhurkiya	408	283	69	34	Tandi	404	28	7
2	Urlabari	1067	692	65	35	Sis. Jahada	296	18	6
3	Biratnagar	6937	4327	62	36	Warangi	140	8	6
4	Pokhariya	115	50	44	37	Majhare	369	21	6
5	Amahibariyati	249	87	35	38	Sis. Badahara	198	11	6
6	Darbesha	692	217	31	39	Hoklabari	195	10	5
7	Haraicha	262	74	28	40	Mahadewa	186	9	5
8	Kadmaha	298	69	23	41	Sundarpur	647	31	5
9	Rangeli	620	135	22	42	Ramitekhola	132	6	5
10	Bahuni	509	110	22	43	Madhumalla	797	32	4
11	Thalaha	313	57	18	44	Mirgouliya	535	21	4
12	Aamgachhi	209	36	17	45	Bardanga	405	13	3
13	Letang	697	119	17	46	Banigama	333	9	3
14	Hasandaha	447	76	17	47	Belbari	810	21	3
15	Dangraha	208	35	17	48	Sidraha	155	4	3
16	Dadarbairiya	328	53	16	49	Yangsila	279	6	2
17	Sorabhag	425	68	16	50	Kaseni	298	6	2
18	Motipur	215	32	15	51	Pathari	895	17	2
19	Bhogteni	229	34	15	52	Babiyabirta	600	11	2
20	Tetariya	230	29	13	53	Singdevi	113	2	2
21	Jante	300	36	12	54	Rajghat	527	8	2
22	Sijuwa	471	56	12	55	Takuwa	302	4	1
23	Nocha	159	17	11	56	Sanischare	980	12	1
24	Lakhantari	166	17	10	57	Amardaha	587	7	1
25	Govindapur	620	63	10	58	Dangihat	803	8	1
26	Pati	100	9	9	59	Keroun	515	5	1
27	Budhanagar	500	43	9	60	Bhatigachha	467	4	1
28	Dainiya	501	43	9	61	Indrapur	711	5	1
29	Dulari	423	33	8	62	Bhaudaha	257	1	0
30	Kerabari	649	49	8	63	Hattimuda	328	1	0
31	Baijanathpur	186	14	8	64	Katahari	778	0	0
32	Tankisinuwari	683	50	7	65	Jhorahat	201	0	0
33	Bayarban	838	61	7	66	Itahara	645	0	0
						District		7413	21

Table 18 VDC wise status of Delivery conducted by Health Workers in Morang

Status of delivery conducted by health workers is heterogenous which ranges from Jhurkia 69 percent to Katahari, Jhorahat, Itahara, Hattimudha and Bhaudha 0 percent in the district.

S.N.	VDCs	Taget	Achievment	%	S.N.	VDCs	Taget	Achievment	%
1	Kadmaha	298	258	86.6	34	Katahari	778	250	32
2	Jhorahat	201	149	74.2	35	Hoklabari	195	61	31
3	Amahibariyati	249	183	73.4	36	Hasandaha	447	136	30
4	Jhurkiya	408	289	70.9	37	Kerabari	649	183	28
5	Sorabhag	425	299	70.3	38	Rangeli	620	166	27
6	Dadarbairiya	328	223	68	39	Hattimuda	328	86	26
7	Urlabari	1067	724	67.9	40	Warangi	140	36	26
8	Tankisinuwari	683	448	65.6	41	Jante	300	74	25
9	Dangraha	208	132	63.6	42	Letang	697	170	24
10	Sub Metro Brt	6937	4391	63.3	43	Keroun	515	124	24
11	Belbari	810	482	59.5	44	Sundarpur	647	155	24
12	Budhanagar	500	296	59.2	45	Itahara	645	150	23
13	Thalaha	313	182	58.1	46	Haraicha	262	59	23
14	Lakhantari	166	93	56	47	Mirgouliya	535	110	21
15	Mahadewa	186	99	53.1	48	Pathari	895	183	20
16	Ramitekhola	132	70	53.1	49	Tandi	404	78	19
17	Babiyabirta	600	314	52.3	50	Baijanathpur	186	34	18
18	Pokhariya	115	60	52.2	51	Dainiya	501	89	18
19	Bhatigachha	467	243	52	52	Bardanga	405	70	17
20	Aamgachhi	209	98	46.8	53	Dangihat	803	130	16
21	Dulari	423	185	43.7	54	Bhaudaha	257	40	16
22	Pati	100	41	41.1	55	Bhogteni	229	33	14
23	Darbesha	692	268	38.7	56	Madhumalla	797	105	13
24	Sanischare	980	377	38.5	57	Sis. Jahada	296	37	12
25	Sis. Badahara	198	74	37.4	58	Singdevi	113	14	12
26	Banigama	333	123	36.9	59	Govindapur	620	76	12
27	Nocha	159	58	36.5	60	Kaseni	298	36	12
28	Tetariya	230	82	35.6	61	Takuwa	302	35	12
29	Sijuwa	471	165	35.1	62	Bayarban	838	95	11
30	Majhare	369	128	34.7	63	Indrapur	711	73	10
31	Bahuni	509	176	34.6	64	Rajghat	527	41	8
32	Motipur	215	73	34	65	Yangsila	279	8	3
33	Sidraha	155	52	33.5	66	Amardaha	587	16	3
						District	34945	13788	39

Table 19 VDC wise status of PNC 1st Visits in Morang

Status of delivery conducted by health workers is heterogenous which ranges from Kadmaha 87 percent to Yangsila, Amardaha 3 percent in the district.

2.1.6 PROBLEMS/CONSTRAINTS AND ACTION TO BE TAKEN

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
ANC check up with	Refresher Training	DPHO	ASAP
counseling is poor	given		

2.3 Adolescent health



With the help of supporting partners Aama Milan Kendra five VDCs are taken as conducting piloting Youth friendly clinics in the districts. Health workers have given training for organizing separate clinics in different days for boys and girls in the health institutions. Now, hopeful results are coming.

3 DISEASES CONTROL

3.1 National Tuberculosis Programme

3.1.1 BACKGROUND:

Tuberculosis is one of the major public health problems in Nepal and is a leading cause of death in adults. Introduction of treatment by Directly Observed Treatment Short Course (DOTS) has already reduced the number of deaths in Nepal from 8000-11000 to 5000-7000. Expansion of this cost-effective and highly successful treatment strategy, which already has proven its efficacy in Nepal, will have a reflective impact on mortality and morbidity. The National Tuberculosis Programme's (NTP), long term goal is to reduce the transmission of TB to such a level that it is no longer a public health problem. The NTP operates its diagnostic and treatment services within the general health services of the country. The basic unit of management for diagnosis and treatment of TB patients is the district hospital and the Primary Health Centre. Health Post acts as sub-centre for supervision of patients on DOTS in selected health posts in different districts. Region provides support in managing TB control activities of the districts.

3.1.2 OBJECTIVES:

- To achieve 85% cure rate in new smear positive pulmonary tuberculosis
- To achieve 70% case detection ratio in new pulmonary tuberculosis
- To implement the DOTS activities in phased manner in all districts

3.1.3 TARGET:

- 85% cure rate in new smear positive cases
- 80% conversion rate in new smear positive cases
- 70% case detection rate
- Expansion of DOTS in all districts

3.1.4 STRATEGIES:

- To promote early case detection of infectious pulmonary cases through sputum smear examination
- To ensure effective chemotherapy
- Involvement of community for planning, Implementation and monitoring of T.B. control services.

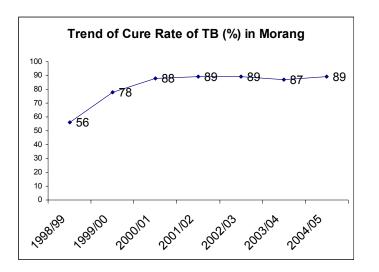
3.1.5 ANALYSIS OF ACHIEVEMENT BY MAJOR ACTIVITIES:

Program/ Activities	Units	Target	Achiev ement	% Ach	% expenditure wrt released budget	Reasons for not achieve 100%
Sputum examination for Suspected cases.	Per.	6000	5866	97.8	8	
New sputum examination	Slide	18000	17291	96.1		
Follow up sputum examination	Slide	2804	2639	94.1		
New sputum +ve	Per.	600	574	95.7		
New sputum -ve	"	480	340	70.8		
Extra pulmonary	"	125	294	100.0		
Retreatment case		137	98	71.5		
TB Pts to Pts family health Ed. on DOTS	"	150	150	100.0	74.3	
Dhami Jhakri orientation	"	20	20	100.0		
DOTS center evaluation Workshop	Times	6	6	100.0		
World TB day	"	1	1	100.0		
Supervision	"	60	36	60.0		
School Health programme	School	25	17	68.0		
TB/DOTS orientation for social Workers	No.	20	20	100.0		
TB/DOTS orientation for Mothers group	"	20	20	100.0		

Table 20 Achievement of TB programme

Table 21 Performance Indicators of TB programme

Indicators	2059/060	2060/061	2061/062
Case Detection Rate	56	64	63
Cure Rate on DOTS	90	88	89
Treatment Success Rate (Cured+Completed)	89	88	90
Sputum Conversion Rate	87	87	93



TB Cure rate is in increasing trend in Morang.

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
Problem in Urban DOTS	Operational research	DPHO/BNMT	ASAP
	conducted with BNMT		

3.2 Leprosy

3.2.1 BACKGROUND:

Leprosy is one of the major public health problems of eastern region. It is aimed to provide diagnostic and therapeutic services of leprosy within the general health services. MDT service is available in all health institutions of the region. Leprosy burden is high in Terai district where as low or eliminated in hill districts. The regional prevalence rate of leprosy is continually in decreasing trend but the new case detection rate is not declined as expected. In 1982 leprosy PR was 17.3 per 10000 populations and finally this value reduced to 2.81. This indicates the achievement of reduction is 83.76% and leprosy elimination is in the positive trend.

3.2.2 OBJECTIVES:

- Elimination of leprosy by the year 2005 AD (Prevalence rate below 1 cases per 10,000 population) at national level
- Provision of MDT to all registered cases
- Prevention of disability by early detection and treatment of cases
- Reduction of social stigma by increasing awareness about the disease

3.2.3 TARGET:

- To reduce the present registered prevalence rate to < 1 per 10000 population by the middle of FY 062/063 (end of December 2005)
- To reduce impairment and disability due to leprosy resulting reduction of WHO defined disability proportion around 5%
- To prevent leprosy transmission by early case detection and increase patient volunteer submission more than 90%

3.2.4 STRATEGY:

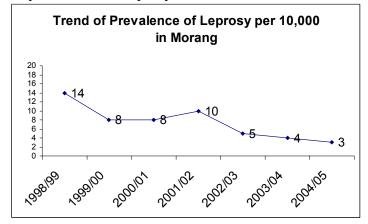
- High priority will be given to undetected cases and treatment
- Increased co-operation and coordination between HMG and I/NGOs will be maintained

3.2.5 ANALYSIS OF ACHIEVEMENT BY MAJOR ACTIVITIES:

	Program/ Activities	Units	Target	Achieve ment	% Achieved	% expenditu released bu		Reasons for not achieve 100%
Scho	ol Health education	Times	17	17	100.0			
Rapi	d inquiry survey	VDC	10	10	100.0	95.5		
Supe	rvision	Times	40	40	100.0			
S.N	Indicators		MB			PB		
		2059/60	2060/61	2061/	62 2059/	60 2060/61	2061/6	2
1.	New Case	2.6	2.6	1.1	4.1	3.1	1.3	
	Detection Rate							
2.	RFT	91.8	87.0	98.9	98.7	94.0	100.0	
3.	Prevalence Rate	3.15	2.5	2.1	2.09	1.29	1.5	

Table 22 Performance of Health Education Prog	gramme
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Graph 7 Trend of Leprosy Prevalence Rate



Trend of prevalence rate of Leprosy is in decreasing trend but still far from its elimination stage.

Problem/Constraints	Action to be Taken	Responsibility	Time Frame
Prevalence rate is still	Awareness campaign conducted in	DPHO/NLR	ASAP
high in Morang	municipality with the help of NLR		

3.3 Malaria Program

3.3.1 Background:

Malaria eradication program was started in the year of 1962 in this region and was continued up to the year 1977. But since the year of 1978 eradication program eventually become Malaria Control Program as recommended by WHO. At present, this program is carried out in all districts except Solukhumbu district in the region.

3.3.2 OBJECHVES:

- Prevention of mortality due to malaria.
- Reduction in malaria morbidity.
- Prevention and control of P. Falciparum epidemics

3.3.3 TARGETS:

• To reduce the annual parasite incidence to 3 cases/1000 population

3.3.4 STRATEGIES:

- Early diagnosis and prompt treatment of malaria cases through health facilities
- Selective application of indoor residual spraying in case of epidemic prone areas
- Promotion of personal protective measures
- Improving target setting of blood slide collection and lab facilities for strengthening early diagnosis of malaria in service outlets of malaria endemic districts
- Training for increased competence of puerperal level health staff in malaria control

3.3.5 ANALYSIS OF ACHIEVEMENT BY MAJOR ACTIVITIES:

Program/ Activities	Units	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Slide collection	No.	6000	14662	100.0		
Malaria Spraying	Times	2	2	100.0	96.5	

Table 23 Malaria: Target Vs Achievement

Table 24 Malaria Incidence

Indicators	2059/060	2060/061	2061/062
Malaria Parasite Incidene/1,000	0.2	0.2	0.1
Slide Positively Rate	2.5%	1.6%	1.2%
% of PF	15.2	9.9	12.4
Clinical Malaria Incidence Per/1,000 risk population	3.7	5.2	5.7

3.3.6 Problem/Constraints and Action to be taken

SN	Problem/ Constraints	Action to be taken	Responsibility	Deadline
2	Increasing SPR	Re-activate the PCDV Programme.	EDCE/DoHS	ASAP
3	Delay budget release	Requested DoHS	DoHS	ASAP

3.4 Kala-azar Program

3.4.1 Background:

Kala-azar has been reported from six districts in this region. This disease is also a public health concern due to high case fatality rate among the infected cases. It is mostly prevalent in rural area with low socio economic group of the people.

3.4.2 Objectives:

- To reduce morbidity and mortality due to Kala azar.
- To prevent epidemic due to Kala azar.

3.4.3 Targets:

- To reduce the Kala azar incidence in the region.
- Prevention of epidemic.

3.4.4 Strategies:

- Early diagnosis and prompt treatment of Kala-azar through strengthening of referral services at the • peripheral health Institution.
- Early detection and timely containment of epidemics. ٠
- Protection of risk population with indoor residual spraying. •

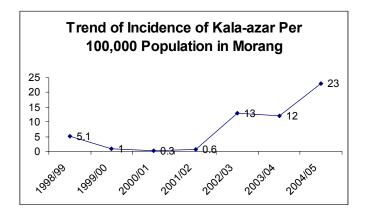
3.4.5 Analysis Of Achievement By Major Activities:

Program/ Activities	Units	Target	Achievemen t	% Achieved	% expenditu re wrt	Reasons for not achieve 100%
Spraying	Times	2	2	100.0		

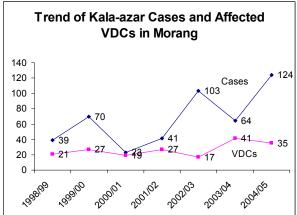
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Target 26 Incidence of Kala-azar

Indicators	2059/060	2060/061	2061/062
Case Incidence/10000 of Population	13.7	12.4	11.4
Number of death due to Kala-azar	1	1	2



Graph 8 Kala-azar is in increasing trend in Morang district.



Graph 9 The trend of Kala-azar, is increasing. Total 41 VDCs are being affected by Kala-azar.

3.5 JE Program

Table 27 Target Vs Achievement

Program/ Activities	Unit	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Spraying, Fogging	time	2	2	100		

Table 28 Incidence of JE

Indicators	2059/060	2060/061	2061/062
Case Incidence/100000	6.6	6.4	3.0
Number of death due to JE	6	8	3

3.6 AIDS and STDs Programme Targeted Activities.

Program/ Activities	Units	Target	Achievement	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
HIV/AIDS day	time	1	1	100	NA	
DACC meeting	time	2	2	100	NA	

Table 29 Performance in HIV/AIDS programme



World AIDS day was observed in Morang in collaboration with DDC, Schools and NGOs on 1st December 2004.

Morang	Male	Female	Total
HIV/AIDS	196	112	308
IDU	-	-	558

3.7 Curative Service through OPD Service

3.7.1 BACKGROUND:

Curative health services aims to provide appropriate diagnosis, treatment and referral through the network of PHC outreach to specialized hospitals. It is one of the important and highly demanded services. Services are provided through all health facilities.

3.7.2 OBJECTIVES:

• To provide curative services to all patients reporting to the health facilities or PHC outreach sites to reduce duration of illnesses, mortality and improved quality of life.

3.7.3 TARGETS:

• To provide service to all clients attending health facilities with appropriate diagnosis, treatment and/or referral to specialized facilities.

3.7.4 STRATEGIES:

- Establishment and service delivery through of SHP in all the VDCs.
- Establishment and service delivery through PHCs in all electoral constituencies.
- Establishment of 3-5 out reach clinics in all VDCs for EPI and PHC-ORC.

3.7.5 ANALYSIS OF ACHIEVEMENT BY MAJOR ACTIVITIES:

Table 30 Coverage of OPD 2059/060 2060/061 2061/062 Indicators 2059/060 18.9 19.18

3.8 Epidemics control

Table 31	Epidemics or Out breaks	
	Lipidennes of Out breaks	

Epidemics	Number of VDCs	Affected Number	Episode
Measles, Diarrhoea, Skin	5	200	5

4. SUPPORTING PROGRAMMES

4.1 Partners Defined Quality

Supporting Partners	No. of Health Institutions	Benefited Participants	Outcome	
SCF US	50	500	HFMC strengthened	

4.2 HMIS

4.2.1 BACKGROUND:

To develop skill in record keeping, analysis and use of information for planning and supervision, integrated HMIS implementation strategies started in 1993. Efforts are being done to utilize HMIS information in planning, monitoring, supervision and evaluation at regional and district level.

4.2.2 **OBJECTIVES:**

- To monitor the coverage, continuity and quality of the health services and to assist service provider and managers to use the data at the service delivery level.
- To assess the progress of district health programmes.
- To help districts in preparation of work plan.

4.2.3 STRATEGIES:

- Collection of information, analysis and use for planning, monitoring and management.
- Initiate bottom-up planning.
- To organize programme performance review meeting.

4.2.4 ANALYSIS OF ACHIEVEMENT OF MAJOR ACTIVITIES:

- Monthly reports are monitored and feed back given to the concerned VDCs or HIs.
- District level programmes performance review workshop completed.
- Work plan and integrated supervision plan was prepared to cover all 17 Ilakas.

FY	District	Hosp	РНС	HP	SHP	PHC /ORC	FCHV	NGO
059/060	100	33	100	100	99	95	96	98
060/061	100	100	100	100	99	92	920	98
061/062	100	100	100	100	98	86	95	98

 Table 33 HMIS Reporting Status by Institutions (%) FY 2059/060-2061/062

Table 34 Status of number of Monthly Meeting conducted FY 2061/062.

Number of monthly meeting conducted	Name of District	Number of Meeting
at district level based on the Monthly	Morang	12
Monitoring sheets FY 2061/062		

Table 35 Average number of People Served by type of health facilities per months

	<u> </u>		-	2 2 1		1			
FY	District	Hosp	PHC	HP	SHP	PHC/ORC	FCHV	NGOs	
059/060	40	184	963	663	206	30	24	409	-
060/061	57	187	1009	706	238	27	34	422	
061/062	51	192	1311	584	248	29	43	432	

S.N. Problems/ constraints Action to be taken Responsibility Deadline

1	Delay reporting from	Feedback given to	Incharges of ASAP
	Health Institutions	concerned institutions	HIs
2	Incomplete and	-Proper person not	Health ASAP
	Inconsistent reporting	always involved in	Institutions
		report making	Incharges
		-Feedback given	
3	Lack of training for newly	Provision of basic and	MD/ NHTC/ ASAP
_	recruited health workers.	refresher training.	DoHS

4.3 LMIS

Table 36 Reporting Status by Institutions (%) FY 2061/062

	Hospital	PHCC/HC	HP	SHP
District	-			
100.0%	75.0%	100.0%	100.0%	98.5%

Table 37 Health Institutions wise ASL, EOP of Essential Commodities

1 4010 5	uolo 57 moutui institutions (1850 1852, 201 of 2850multi Commoutles														
F.Y.	Health	Cone	lom	De	epo	Pi	lls	OR	S	Vita	. A	Cot	rim	Iron ta	ublets
	Institution	ASL	EOP	ASL	EOP	ASL	EOP	ASL	EOP	ASL	EOP	ASL	EOP	ASL	EOP
2060/61	PHC/HP/ SHP	139715	27943	23530	4706	18325	3665	54445	10889	102355	20471	313305	62661	572275	114455
	District	279430	83829	47060	14118	36650	10995	108890	32667	204710	61413	626610	187983	1144550	343365
2061/62	PHC/HP/ SHP														
	District														

4.4 Female Community Health Volunteer (FCHV)

4.4.1 Background:

To acquire support and active participation of the community in primary health services, the FCHV programme was initiated in the year of 1988/89 At present FCHVs are involved in the distribution of condoms, pills, Vitamin "A" Capsules, ORS and also initial management of ARI cases in selected district. They are also responsible for the dissemination of information and education in the community on FP, EPI, Nutrition and Sanitation.

4.4.2 Objectives:

- To empower rural women with basic knowledge and skill.
- To develop in every word at least one FCHV as a health resource person who is knowledgeable, trained and well supported by local mothers.

4.4.3 Strategies:

- Training of FCHVs basic and refresher.
- Review meeting for FCHVs trimester.
- Orientation of VDCs members for selection of FCHVs.

4.4.4 Analysis of Achievement:

Program/ Activities	Units	Target	Ach	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
HFI quarterly meeting	Times	3	2	66.7		
Quarterly review meeting	Person	1755	1170	66.7		
TBA refresher meeting	"	405	342	84.4	72.7	
FCHV Day	Times	1	1	100.0		

Table 38 Performance of FCHV programme

Table 39 Service Indicators

Indicators	2059/060	2060/061	2061/062
Average number of Mothers Group meeting held in a year per FCHV	9	11	10
No of Pills cycle distribution by FCHV	10766	18436	26576
No. of person receiving Condoms	51204	54381	196584
No. of ORS Pkt. distribution by FCHV	31781	43824	48476

Problems / Constraints and Action to Be Taken

S.N.	Problem/ Constraints	Action to be taken	Responsibility	Deadline
1	Delay Release of Budget	Provision of release of budget on time	FHD/DoHS	ASAP
2	Inadequate encouragement & motivational scheme for FCHV	Establish linkage with DDC, VDC hospitals & supporting partners and develop appropriate motivational scheme (district/center)	DHO/DPHO	ASAP

4.5 PHC Outreach- clinic Programme.

4.5.1 Background:

Primary Health Care (PHC) Out reach Services are extension of primary health care from PHC/HP/SHP to the community level. Services are provided to clients / patients at per determined time and place once in a month in three to five places of each VDCs. It aims to provide services to people residing in remote areas with community involvement.

4.5.2 Objectives:

• To improve access and coverage of primary health care through a network of 3 to 5 out reach clinics per VDC per month.

4.5.3 Strategies:

- Operation of outreach clinics by place and schedule involving community with basic minimum servile package.
- Utilize the services of VHWs and MCHWs.
- Increase community involvement.

4.5.4 Analysis of Achievement:

Program/ Activities	Unit	Target	Achiev ement	% Achieved	% expenditure wrt released budget %	Reasons for not achieve 100%
Clinic conducted	time	3372	2913	86.4	-	
Management committee reorientation	time	1	1	100	SCF support	

Table 40 Target Achievement of PHC-ORC

Table 41 Performance Indicators of PHC-ORC

Indicators	2059/060	2060/061	2061/062
% of PHC/ORC clinic conducted	95.2	92.0	86.4
Average number of clients served per clinic	30	27	29

4.6 Community Drug Programme (CDP)

4.6.1 Background

CDP programme in Morang district has been started since 2057/58 with the help of UNICF. Now UNICEF has no programme for monitoring of this programme in the district. BNMT has its programme on Drug Scheme Programme but only limited VDCs are taken so far till now. But by the end of FY 2061/62 district has got data of all 66 health institutions with 10 million rupees in their respective funds in Morang district.

5.6.2 Objective

- To make essential drugs available round the year with the participatory cost sharing approach.
- ✤ To ensure poor and disadvantaged patient with free drugs when needed.

5.6.3 Strategies

- Drug management committee will ensure all indent and procurement as per needed.
- Committee will be responsible for overall management including auditing budget.

5.6.4 Analysis of the achievement

Graph 10 Trend of the CDP fund

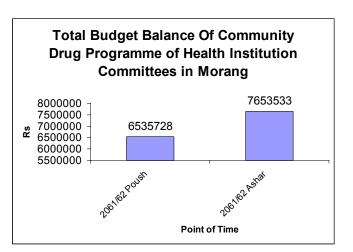


Table 42. Status	of Fund of Commun	ity Drug Programme
llaka	2061/62 Poush	2061/62 Ashar
Jhurkiya	349810	400532
Haraicha	686648	766707
Mangalbare	617875	713294
Letang	70472	158696
Bahuni	525825	631714
Jhorahat	476117	589295
Rani	266537	272879
Babiyabirta	222830	280538
Ranjani	463242	419340
Budhnagar	45311	199498
Dadarbairia	587121	622277
Hasandaha	258057	290307
Kerabari	648790	724412
Madhumalla	512786	504342
Majhare	60770	298967
Tanki	234127	267155
Bayarban	509410	513580
Total	6535728	7653533

4.7 Training Activities

4.7.1 Background:

Information Education Communication is one of the important components for the supporting health program. Since 1994, IEC activities have been decentralized and districts are involved in preparing in work-plan and developing IEC materials locally as per guideline of NHEICC.

4.7.2 Objectives:

- To raise health awareness of the people as to promote improved health status.
- To prevent disease through the effort of people themselves and through utilization available resources.

4.7.3 Strategies:

- Promotion of IEC activities in all governmental and non-governmental agencies.
- Dissemination of information, education and communication on health issues through health and health related workers.
- Use of individual group and mass media in health education, information and communication.

4.7.4 Analysis of Achievement of Major Activities:

Program/ Activities	Units	Target	Achievem ent	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
FCHV (Biratnagar Municipality)	person	70	70	100	BRT M.	
Neonatal Health	HWs	400	400	100	MINI	
Neonatal Health	FCHVs	585	585	100	MINI	
CB-IMCI	HWs	110	110	100	Plan Nepal	

Table 43 Target Achievement of Training Programme

4.8 National Health Information Education & Communication Programme Target Activities.

4.8.1 Annual Activities assigned by Centre

Table 44 Target Achievement of IEC

Program/Activities	Unit	Target	Achiev ement	% Achieved	% expenditure wrt released budget	Reason for not ach. 100%
Gender awareness workshop for health worker	No.	1	0	0.0		
Slide shows in cinema halls	Time s	910	310	34.1		
Health education exhibition in Community	"	3	1	33.3		
Street drama	"	9	2	22.2		
FM Radio programme	,,	180	195	100.0		
School Health Programme	"	173	69	39.9		
Interaction programme between press and concerning personal	"	16	12	75.0	46.0	
District Health Education review	Dist.	1	1	100.0		
Health education material distribution	Time s	3	2	66.7		
IEC material production	Piece	20000	20000	100.0		
Health education materials publication/prize	"	2	2	100.0		
Health education Corner	times	53	38	71.7		
Health Ed. promotion campaign	"	53	53	100.0		

S.N.	Problems/ constraints	Action to be taken	Responsibility	Deadline
1	Delay release of budget		MoH, DoHS	ASAP
2	Distributed targets were not achieved by HIs	Delay reporting resulted poor performance	District, HIs	ASAP

4.8.2 Health Related Special Days Observed

	Special days	Date
1.	World Population day (DPHO Morang stood first position in this occasion on district	July 11
	wide stall competition organized by UNFPA and Purbanchal University at Biratnagar)	
2.	World Breast Feeding Week	August 1-7
3.	Malaria Control Day	August 20
4.	National FCHV day	October 1
5.	World Leprosy day	January 25
6.	Iodine Deficiency Disaoder Month	February
7.	World TB day	March 24
8.	World Health Day	April 7
9.	World No Tobacco day	May 31

Table 45 Special days observed in the collaboration with partners round the year

4.9 Laboratory Services

Table 46 Laboratory Services

Program/ Activities	Units	Target	Achieve ment	% Achieved	% expenditure wrt released budget	Reasons for not achieve 100%
Malaria Slides	Each	45740	9425	21		

4.10 Financial Management

Table 47 Budget Expenditure

Programme /Activities	Allocated Budget	Budget Released	Budget Expenditure 2061/062	% of Irregularities Clearances
Health Education	529	245	245	
Leprosy	66	63	63	
CDD/ARI	570	368	368	
Nutrition	189	141	141	
NHTC	652	473	473	
Family Planning	3960	3277	3277	70.82
Integrated Supervision	578	449	449	
Malaria	940	907	907	
ТВ	150	112	112	
EPI	432	327	327	
Integrated Supervision	578	449	449	
Total>	8644	6811	6811	

4.11 Human Resources Situation

Table 48 Human Resources (Note: S=Sanctioned post, F= F	oned post, $F = Fulfilled Posts$)
---	------------------------------------

Category	DHO/D	PHO	РНСС		HP		SHP	
	S	F	S	F	S	F	S	F
DPHO/Officers	2	2	6	1				
District Assistants	14	14	-	-	-	-	-	-
Nurse/ANM	-	-	24	21	11	11	-	-
HA/AHW	-	-	18	18	33	33	49	49
Lab. personnel's	3	3	6	6	-	-	-	-
VHW/MCHW	-	-	6	4	11	10	98	97
Adm/General staffs	12	12	12	11	22	22	-	-

4.12 Piloting Programmes in Collaboration with EDPs

- 1 Neonatal Health Programme (JSI R&T)
- 2 Health Insurance Programme (Ministry of Health)
- 3 Partners Defined Quality, PDQ (Save the Children)
- 4 FM Radio Programme Production and Broadcasting (Koshi and Saptakoshi FM)

SECTION 3

3 Supporting Partners

3.1 Governmental: Koshi Zonal Hospital, Rangeli Hospital, Biratnagar Sub metropolitan city, district level line offices from Education, Agriculture, Veterinary, and Women development.

3.2 Non Governmental and Private Sector

3.2.1 List of INGO/NGO working in collaboration with DPHO in Morang

1. Merry Stopes Clinic	2. Nepal Red Cross, BRT
3. Help Group	4. CBR Project, Biratnagar
5. Aama Milan Kendra, BRT	6. Birat Nursing Home
7. NATA, BRT	8. FPAN, BRT
9. Adarsa Nirman Mandir, BRT	

3.2.2 External Development Partners

EDPs	Supporting Areas
UNICEF BRT	Immunization campaigns
UNFPA, BRT	HMIS, RH
Polio Eradication(WHO),	Polio and disease surveillance
BNMT, BRT	RH, ED, ID, TB
NFHP, BRT	RH, IMCI
NLR , BRT	Leprosy
SCF(US), BRT	PHC-ORC, LQS, PDQ
Plan Nepal, BRT	CB-IMCI, Cold chain
MINI, BRT	Neonatal Health

3.3 List of Private Hospital/Nursing Homes.

1. Birat Nursing Home.	2. Eye Hospital
3. Abadh Narayan Nursing Home.	4. Koshi Nursing home
5. Purbanchal Nursing Home.	6. Neuro Diagnosis Nursing Home
7. MS Nursing Home.	8. Adarsa Nirman Mandir, Biratnagar

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⁵ Between Census Household Information Monitoring and Evaluation Survey conducted by National Planning Commission, Bureau of Statistics and UNICEF in March-May 2000.

⁶ MoH, DoHS/USAID, Nepal Demographic and health Survey, 2001

⁷ MoH, UNICEF, WHO, New Era, Nepal Micro Nutrient Status Survey, 1998

⁸ ERHD, Annual Report of Eastern Regional Health Directorate Dhankuta, 2060/61(2003/2004)

¹⁰ The Lancet, Newborn health: a key to child survival, 2005

¹¹ MoH, DoHS, National neonatal Health Strategy, 2060