# Performance Framework Years 3,4&5: Indicators, Targets, and Periods Covered

(formerly Attachment A) Program Details

Program Details	
Country:	Bhutan
Disease:	ТВ
Grant number:	BTN-607-GO4-T
Principal Recipient:	Ministry of Health, Royal Government of
	Bhutan

### A. Periods covered and dates for disbursement requests and progress updates

	Period 9	Period 10	Period 11	Period 12	Period 13	Period 14	Period 15	Period 16	Period 17	Period 18	Period 19	Period 20
Period Covered: from	1-Jan-10	1-Apr-10	1-Jul-10	1-Oct-10	1-Jan-11	1-Apr-11	1-Jul-11	1-Oct-11	1-Jan-12	1-Apr-12	1-Jul-12	1-Oct-12
Period Covered: to	31-Mar-10	30-Jun-10	30-Sep-10	31-Dec-10	31-Mar-11	30-Jun-11	30-Sep-11	31-Dec-11	31-Mar-12	30-Jun-12	30-Sep-12	31-Dec-12
Date Progress Update due (typically 45 days after end of period)	15-May-10	14-Aug-10	14-Nov-10	14-Feb-11	15-May-11	14-Aug-11	14-Nov-11	14-Feb-12	15-May-12	14-Aug-12	14-Nov-12	14-Feb-13
Disbursement Request ? (Y,N)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

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 Audit Report Due Date:
 31-Dec-11
 31-Dec-12
 31-Dec-13

#### B. Program Goal, impact and outcome indicators

## Goals:

To increase case detection and provide services among special population and patient groups

Impact / outcome Indicator	Indicator		Baseline					Targets		Comments*
		value	Year	Source	Year 1	Year 2	Year 3	Year 4	Year 5	
Impact	TB prevalence rate (all forms) - Estimated number of all active TB cases per 100,000 population per year	122/100,000		WHO regional workshop/ estimation 2009		-5% over the baseline		-8% over the base line	-10% over the baseline	Targets have been updated according to latest WHO estimations (2009 data). This will be further validated by the ARTI survey at the end of 2009.
Impact	TB mortality rate- Estimated number of deaths due to TB	18/100,000	2007	WHO regional workshop/ estimation 2009	N/A	-11% over the baseline			-26% over the baseline	Targets have been updated according to latest WHO estimations (2008 data).
	Case detection rate (new smear positive) - Percentage of new smear positive TB cases detected among the new smear positive TB cases estimated to occur countrywide each year	74.7%	2006	NTCP Report 2006	371/475.5 (78%)	381/475.5 (80%)	425/531 (80%)		434/511 (85%)	Numerical targets for years 3-5 have been updated according to latest WHO estimations (2008 data). Targets for treatment success rate are for the cohort that started treatment in the previous year.
Outcome	Treatment success rate (new smear positive - Percentage of new smear positive TB cases that successfully complete their treatment (treatment completed plus cured) among the new smear positive TB cases registered during a specified period	83%	2005 Cohot	NTCP Report 2006		331/371 (89.22%)	90%	91%	92%	Numerical targets for years 3-5 have been updated according to latest WHO estimations (2008 data). Targets for treatment success rate are for the cohort that started treatment in the previous year.

\* please specify source of measurement for indicator in case different to baseline source

#### C. Program Objectives, Service Delivery Areas and Indicators

Objective Number	Objective description
1	To detect at least 80% of the estimated new smear positive cases
2	To cure at least 90% of the diagnosed new smear positive cases
3	By 2015, to have halted and begun to reverse the TB incidence in Bhutan

Objective / Indicator Number	Service Delivery Area	Indicator	Base	eline (if applicat	ole)	Ph	nase 1					Per	iodical target	ts for year 3 -	5					Directly tied (Y/N)	included in	Targets cumulative (Y - over program term / Y - cumulative annually / N	Comments
Number			Value	Year	Source	Targets (P8)	latest available results (P8)	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20		(Y/N)	not cumulative)	
1.1	High Quality DOTS	Number of new smear positive TB cases detected among the new cases estimated to occur countrywide each year	74.70%	2006	NTCP report 2006	190	468	95	170`	270	381 (80% of 475)	81	174	283	390 (82% of 475)	84	180	283	404 (85% of 475)	Ν	Ν	Y - cumulative annually	Targets are cumulated by calendar year (Jan-Dec). The estimated new smear positive cases per year in Bhutan is 475 based on the ARTI of 1.5, i.e. 75 cases per 100,000. ARTI survey was conducted in 1991 and 2009. The result from the 2009 survey is due in April 2010. Year 4 & 5 target will be revised based on the updated ARTI. Population of Bhutan= 634,982 (Population and Housing Census of Bhutan 2005).
1.2	High Quality DOTS	Number of new smear positive TB cases that successfully completed their treatment (treatment completed plus cured) among the new smear positive TB cases registered on treatment in the previous year.	83%	2005 Cohort	NTCP report 2006	165 90% of 184 (Q5 of R6)	93/104 (89%)	92	202	307	421/468 (90%)	86	154	246	347/381 (91%)	75	160	260	359/390 (92%)	N	Y	Y - cumulative annually	Targets are cumulated by calendar year (Jan-Dec). The year 3 target is based on actual cases registered under DOTs in year 2009. The year 4 and 5 targets are based on the estimated cases enrolled in 2010 and 2011 under indicator 1.1, taking into account a 12-months delay in reporting.
1.3	High Quality DOTS	Number of Monastery DOTS providers trained	N/A	N/A	N/A	90	198	198	198	218	218	238	238	238	238	258	258	258	258	Y	Ν	Y - over program term	

2.4	2.3	2.2	2.1	1.9	1.8	1.7	1.6	1.5	1.4
M&E	M&E	HSS: Health Workforce	Improving diagnosis	ACSM (Advocacy, communication and social mobilization)	MDR-TB	MDR-TB	MDR-TB	High-risk groups	High-risk groups
Number of reporting units (BHU and hospitals) with functioning electronic TB registers	Number of health facilities (BHUs and hospitals) submitting timely reports according to national guidelines	Number of lab technicians trained	Laboratories showing adequate performance of QA (more than 90%) for smear microscopy slide re-checking results	Number of radio/TV programmes about TB disease, its transmission, diagnosis and treatment broadcasted/aired	Number and percentage of laboratory confirmed MDR-TB patients still receiving treatment among those enrolled in second line anti-TB treatment during a specified time period	Number of lab-confirmed MDR TB patients successfully treated among those enrolled in second line anti TB treatment	Number of people enrolled on MDR-TB treatment (2nd line drugs)	Number of transport workers reached through advocacy/tailor made TB messages	Number of migrants (expatriate workers) screened for TB at the three border entry points (using X-rays)
0	30	37	30	131	n/a	83% treatment success rate	15 per year	0	N/A
2008	2009 (P6 of phase 1 of R6)	2006	2009 (Rd4 P 20)	2006	n/a	2006-2007 cohort	2006	2009	N/A
Activity reports	NTP	NTP Round 4 Report	NTP	NTCP report	n/a	NTCP Report	NTCP report	Activity reports	N/A
30	30	NA	N/A	261	not applicable	n/a	30	N/A	57'000
0	30	NA	N/A	293	not applicable	n/a	19	N/A	86'116
30	30	0	30 (100%)	28	not applicable	2	0	0	93'000
30	30	41	30 (100%)	28	not applicable	2	5	500	93'000
30	30	41	30 (100%)	28	not applicable	4	10	750	97'000
30	30	41	30 (100%)	28	not applicable	5	15	1'000	104'000
30	30	81	30 (100%)	28	TBD	2	5	1'250	110'000
30	30	81	30 (100%)	28	TBD	2	10	1'500	117'000
30	30	81	30 (100%)	28	TBD	4	15	1'750	124'000
30	30	81	30 (100%)	28	TBD	6	20	2'000	132'000
30	30	121	30 (100%)	28	TBD	3	5	2'250	138'000
30	30	121	30 (100%)	28	TBD	5	10	2'500	145'000
30	30	121	30 (100%)	28	TBD	6	15	2'750	152'000
30	30	121	30 (100%)	28	TBD	8	20	3'000	160'000
Y	N	Y	Ν	Y	Y	N	Y	Y	Y
Ν	Ν	Ν	Y	N	Ν	Ν	Ν	Ν	Ν
Y - over program term	N - not cumulative	Y - over program term	N - not cumulative	N - not cumulative	Y - cumulative annually	Y - cumulative annually	Y - cumulative annually	Y - over program term	Y - over program term
Upon the establishment of TB electronic reporting systems, it will be introduced in the reporting centers in phases. Once all the reporting centers have functional TB electronic registers, the manual system will be phased out. 'Functional' also implies that district data entry operators and statisticians will have been trained on the electronic TB register (66 in total).	The report from total of 30 reporting centers will be submitted quarterly according to national guidelines.	In phase 2, a total of 121 lab technicians will be trained. Out of 121, the number for new lab technicians trained will be 45. 70 will be refresher training and 6 attachment training. The number of new lab technicians trained will be 45 because RIHS has the capacity to produce only 15 lab technicians per year.	All positive slides and 20 % of negatives are re-checked by the Public Health Laboratory. This QA activity was supported by R-4 and will be continued through R-6. Since there are only 30 hospitals in the country, the QA program will ensure that all the labs submit slides for rechecking and should have the results of more than 90%.	Indicator was previously reported cumulatively over quarters (but not over years). As per Bhutan Living Standard Survey (2007), there are 125,000 households in Bhutan. The average household size is 5. The Survey shows that there are 37.7 percent of the households own TV and 62 percent own Radio. Therefore, we expect to reach to 235,625 people (37.7 % of 125,000 X5) through TV and to about 387,500 people (62 % of 125,000 X5) through Radio. The frequency of airing is every quarter and that is 14 times radio and 14 times TV for each quarter.	Reporting of patients still on treatment 6 months after enrollment will be with a 12 months delay (as with DOTS cohort) and is reported cumulative annually (per calendar year). PR will provide targets at the beginning of year 4, based on experience with implementation in year 3.	Targets are cumulated by calendar year (Jan-Dec). Number of patients successfully treated are reported with <u>a 36</u> <u>months delay</u> . These numbers refer to those patients put on treatment supported by government funds in 2007-2009. The treatment success of those 50 patients put on GLC treatment under Phase 2 will not be reported under Phase 2 due to the delay in reporting.	Targets are cumulated by calendar year (Jan-Dec). As of Dec 2009, 19 MDR patients have been enrolled for treatment through government funding (2008-2009). GLC approved enrollment of initial cohort of 50 patients in June 2009 (patients will be enrolled in Phase 2). Those 19 MDR-TB patients who were put on treatment in Phase 1 will be continuing the existing regimen. All new MDR-TB cases will be enrolled on new regimen supported through the GF/GLC.	The truck drivers will be reached at the boarder areas. The taxi drivers will be reached through taxi drivers association.	The number of migrant workers screened has increased from the original targets mentioned in the proposal because of increase in construction works (expansion of national highway and several hydro power projects). In Phase 1 the target was achieved with the existing facilities. In Phase 2, additional X- Ray machines will be procured, which will increase the screening. Screening of migrant laborers is the government policy in Bhutan. The migrants are mostly the construction laborers from India who are being screened for TB before entering the country. The employers usually pay for the tests. If the workers are found TB positive at the border, they are referred for treatment to cross referral Indian DOTS centers. The migrant laborers who develop TB while in Bhutan are put on treatment as per the Bhutanese treatment regimen (6 months) and the treatment is provided free of charge. The target for P9 was changed retrospectively (after the P9 extension was agreed) in light of the results achieved at P8.