PAVEMENT THICKNESS CHART FOR VARIOUS ROADS

DZONGKHAG ROADS (Feeder Roads)

CBR	TRAFFIC IN MILLION STANDARD AXLES					
	0.3 - 0.7	0.7 - 1.5	1.5 - 3	3 - 6	6 - 10
3 - 4%	WBM 150	WBM 150	WBM 200	WBM 200	WBM 200
	SB 150	SB 200	SB 175	SB 225*	SB 275*
	SR 200	SR 200	SR 200	SR 200	SR 200
5 - 7%	WBM 150	WBM 150	WBM 200	WBM 200	WBM 200
	SB 200	SB 250	SB 225	SB 275*	SB 325*
8 - 14%	WBM 150	WBM 150	WBM 200	WBM 200	WBM 200
	SB 125	SB 175	SB 150	SB 200	SB 250
15 - 29%	WBM 150	WBM 150	WBM 175	WBM 200	WBM 225
	SB 100	SB 100	SB 100	SB 125	SB 250
30% +	WBM 150	WBM 150	WBM 175	WBM 200	WBM 225

Note

WBM = Water Bound Macadam (50 - 20 mm aggregate)

SB = Sub Base (63 - 40 mm aggregate)

SR = Soil Replacement (preferably quary materials)

** = up to 100mm of SB may be subsituted with SR provided the SB is not reduced to less than WBM thickness or 200mm whichever is greater.*

SECONDARY NATIONAL HIGHWAY

CBR	TRAFFIC IN MILLION STANDARD AXLES											
	0.7 - 1.5			1.5 - 3			3 - 6			6 - 10		
3 - 4%	AC		50	AC		50	AC		50	AC		50
	WMM		175	WMM		175	WMM		175	WMM		200
	GSB		175	GSB		225*	GSB		275*	GSB		300*
	SR		200	SR		200	SR		200	SR		200
5 - 7%	AC		50	AC		50	AC		50	AC		50
	WMM		175	WMM		175	WMM		175	WMM		200
	GSB		225	GSB		275*	GSB		325*	GSB		350*
8 - 14%	AC		50	AC		50	AC		50	AC		50
	WMM		175	WMM		175	WMM		175	WMM		200
	GSB		150	GSB		200	GSB		250	GSB		275*
15 - 29%	AC		50	AC		50	AC		50	AC		50
	WMM		150	WMM		175	WMM		175	WMM		200
	GSB		100	GSB		125	GSB		150	GSB		175
30% +	AC		50	AC		50	AC		50	AC		50
	WMM		150	WMM		175	WMM		200	WMM		225

Note

AC = Asphaltic Concrete (mix design required)

WMM = Wet Mix Macadam (40 mm down aggregates, mix design required)

GSB = Granular Sub Base (63 - 40 mm aggregate or 70mm down aggregates)

SR = Soil Replacement (preferably quary materials)

** = up to 100mm of SB may be subsituted with SR provided the SB is not reduced to less thanWMM thickness or 200mm whichever is greater*

For shoulders 150mm thick GSB to be applied which shall be flushed with BT surface

PRIMARY NATIONAL HIGHWAY

CBR	TRAFFIC IN MILLION STANDARD AXLES															
	3 - 6				6 - 10				10 - 17				17 - 30			
3 - 4%	AC		40		AC		40		AC		50		AC		50	
	DBM		60		DBM		60		DBM		75		DBM		100	
	WMM		200		WMM		200		WMM		225		WMM		250	
	GSB		200		GSB		225		GSB		225		GSB		250	
	SR		200		SR		200		SR		200		SR		200	
5 - 7%	AC		40		AC		40		AC		50		AC		50	
	DBM		60		DBM		60		DBM		75		DBM		100	
	WMM		200		WMM		200		WMM		225		WMM		250	
	GSB		225		GSB		250		GSB		250		GSB		275	
8 - 14%	AC		40		AC		40		AC		50		AC		50	
	DBM		60		DBM		60		DBM		75		DBM		100	
	WMM		200		WMM		200		WMM		225		WMM		250	
	GSB		150		GSB		175		GSB		175		GSB		175	
15 - 29%	AC		40		AC		40		AC		50		AC		50	
	DBM		60		DBM		60		DBM		75		DBM		100	
	WMM		200		WMM		200		WMM		225		WMM		250	
	GSB		100		GSB		100		GSB		100		GSB		100	
30% +	AC		40		AC		40		AC		50		AC		50	
	DBM		60		DBM		60		DBM		75		DBM		100	
	WMM		200		WMM		200		WMM		225		WMM		250	

Note

AC = Asphaltic Concrete (mix design required)

WMM = Wet Mix Macadam (40 mm down aggregates, mix design required)

GSB = Granular Sub Base (63 - 40 mm aggregate or 70mm down aggregates)

SR = Soil Replacement (preferably quary materials)

For shoulders 150mm thick GSB to be applied which shall be flushed with BT surface

If Traffic is <3msa, use thickness adopted for 3-6 msa against design CBR.