



His Majesty's Government
MINISTRY OF PHYSICAL PLANNING & WORKS
Department of Roads

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Ref. No.:

Your Ref. No.:



Date:

Recurrent Maintenance Norms

For

Paved Highways and Feeder Roads

Approved by HMG (Minister Level) on 2057 / 11 / 24

Norms for Recurrent Maintenance of Paved Road



His Majesty the King
Ministry of Physical Planning
Department of Road
Babbar Mahal

Per year per kilometer Recurrent Maintenance work				
S.N.	Road Element	Recurrent work Description	Norms	
1	Black top Surface	Pot hole/Patch/Edge Repair		
		Asphalt Concrete Surface	0% - 0.2% of paved surface area	
		Surface Dressing/ Premix	0% - 0.75% of paved surface area	
		Penetration Macadam	0% - 0.30% of paved surface area	
		Crack Sealing		
		Asphalt Concrete Surface	0% - 0.3% of paved surface area	
		Surface Dressing/ Premix	0% - 0.2% of paved surface area	
		Penetration Macadam	0% - 0.1% of paved surface area	
2	Shoulder	Reshaping Levelling and Compacting of GR shoulder#		
		Single Lane	0% - 0.5% of GR shoulder area	
		Double Lane	0% - 0.2% of GR shoulder area	
		Sealing of prime coat, SBST or BT macadam shoulder#	0% - 0.15% of Sealed shoulder area	
3	Access Road	Gravel Access Road Pot hole Repair	0% - 0.40% of GR Access road area	
		BT Access Road Pot hole Repair	0% - 0.30% of BT Access road area	
4	Culverts	Damaged Headwall/Wingwall/Catchpit/Abutment and Base minor Repair (Masonry Work)	0 - 0.1 m3 per culvert	
		Damaged Checkdam and Scour protection Work minor Repair (Masonry Work)		
5.a	Gabion Wall	Damaged Dry/Gabion/Masonry wall minor Repair (Masonry/Gabion Work)	0 - 1 m3 per 1000m length	
5.b	Masonry Wall		0 - 0.5 m3 per 1000m length	
6.a	Earthen Drain	Reshaping (Earth Work)	0 - 5 m3 per 100m length	
6.b	Masonry Drain	Damaged Masonry work and Water proofing base work Repair (Masonry Work)	0 - 2 m3 per 1000m length	
6.c	Concrete Cover Drain	Replace Concrete Cover	0 - 0.25 m3 per 100m length	
7.a	Embankment	Filling Rain Cuts	0 - 2% of embankment area	
		Turfing	0 - 1% of embankment area	
8	Cause Way	Damaged slab/parts repair		
9	Bridge	Damaged Hand Rail Repair/Replace		
10.a	Road Sign	Repair/Replace/Paint damaged/stolen/faded road furniture	Add 20% of the total cost of above items.	
10.b	Deliniators			
10.c	Masonry Parapet			
10.d	Concrete Parapet			
10.e	Drum Parapet			
10.f	Guard rails			
10.g	Gabion crash barrier			
10.h	Km post			
10.i	CL/ Edge line painting			Paint wornout road marking

Note: For non existing road element corresponding quantity should be excluded.
According to the shoulder type one out of these two quantities should be included.

Recommended Cycle			
Traffic (vpd)	Surface Condition		
	Good 0 - 1.7 SDI	Fair 1.8 - 3.0 SDI	Poor 3.1 - 5 SDI
Low (<250)	1	2	Ad-hoc maintenance waiting Rehabilitation or Reconstruction
Moderate (250 - 1500)	2	2	
High (>1500)	2	3	

DIRECTOR GENERAL