

GOVERNMENT OF HARYANA
PUBLIC WORKS ROADS DEPARTMENT
HARYANA ROAD MAINTENANCE POLICY

Notification

No. 9/239/2016-3RR(L) Dated 28-7-2016

Whereas, it appears to the Governor of Haryana that Haryana road Maintenance Policy as mentioned below for a public purpose.

In exercise of the power vested, Governor of Haryana is pleased to approve Haryana road maintenance policy.

This policy is to provide a guiding framework for establishing the objective making arrangement and establishing sets of procedures for the maintenance and repair of roads by Public Works Roads Department, Government of Haryana.

The policy:

1. **Purpose:** The purpose of the policy is to provide a guiding framework for establishing the objectives, making arrangements for and establishing sets of procedures for the maintenance and repair of roads by Public Works Roads Deptt. Govt. of Haryana.
2. **Objectives:** The roads that fail, crack, get deformed or disintegrate present a danger to road users in addition, they impose the wear and tear imposed on vehicles, increased consumption of POL, delays in travel and various other economic costs. There is a need for the concerned agencies and organizations to effect repairs and restoration of the roads in a timely systematic manner.

The objectives of the Policy are to enable:

- i) Adequate, timely and sound maintenance of roads to provide safe, convenient and efficient access and usage to road users in Haryana;
- ii) Judicious and optimal utilization of available funds and resources for the maintenance and repair of the roads;
- iii) Efficient maintenance by using appropriate technology, state of the art and effective repair treatments by inducting new technology and equipment in road repair and maintenance work.
- iv) Appropriate procedures of inspection, checks and technical audit.
- v) Keeping history sheet of maintenance (like, health chart) of every road, kilometer-wise and year-wise, in a suitable format.

- vi) Capacity building and organizational development of the manpower and agencies engaged in roads construction, primarily maintenance & repair in the State for efficient discharge of road development & maintenance function.

3. **Definition:** In this Policy.

- i) **Annual Road Maintenance Plan** means the Annual Roads Maintenance & Operations Plan for the State of Haryana for the roads maintained by PW(B&R) Deptt.
- ii) **Defect** means any form of failure in the road surface including cracks, deformation & disintegrations. These types of failure can be structural or visual in nature.
- iii) **Maintenance with respect to roads** means repairs or remedial treatment to road formation and pavement failures. The purpose being to make the road trafficable until reconstruction works can be carried out by the deptt.
- iv) **Pavement Condition Index (PCI)** is numerical index used to indicate the condition of a pavement. It is a statistical measures and requires manual/mechanical survey of the pavement.
- v) **State Highways** means arterial routes of a state linking district headquarters and important cities, tourist centres and ports within the State and connecting them with National Highways.
- vi) **Major District Road** means the roads within a district serving areas of production and markets and connecting them with each other or with other highways.
- vii) **Other District Roads** are roads serving rural areas of production and providing them with outlet to market centers, taluka/tehsil headquarter, block development headquarter, or other main roads.
- viii) **Village Roads** are roads connecting villages or groups of villages with each other and to the nearest road of a higher category.
- ix) **Rural Roads** cover the categories earlier known as "Other District Roads" (ODRs) and "Village Roads" (VRs). Other District Roads are roads serving the rural areas of production and providing them with outlet to market centers, Block, taluka/tehsil headquarter or main roads. Village Roads are roads

connecting villages and group of villages with each other or to the market centers and with the nearest road of higher category.

4. **Implementation:** Public Works Roads Department, Govt. of Haryana shall be responsible for the implementation of this Policy through Haryana Public Works (B&R) Department. The organization set up for maintenance already exists.

1. Planning Unit
 - i) Survey & data base (inventories)
 - ii) Prioritization
2. Delivery Unit
 - i) Contract procedures.
 - ii) Contract documentation
 - iii) Contracting arrangement
 - iv) Execution of Works & supervision
3. Monitoring and Supervision
 - i) Monitoring
 - ii) Review & evaluation
 - iii) Technical & financial auditing

5. **Evaluation & prioritization of roads:**

- i) Hr.PW (B&R) Deptt. shall carry out evaluation of the existing road pavement in terms of its physical condition, structural capacity, roughness etc. through Road Condition Surveys. Such surveys shall assess type, magnitude, location of the distressed roads and other physical parameters like roughness, skid resistance etc. It shall evaluate Pavement Condition Index (PCI) and take up Prioritization of roads on the basis of the PCI.
- ii) At least one condition survey should be conducted on each stretch of road every year during the month of January. The data collected should be recorded methodically road-kilometer wise.
- iii) Traffic data on SH, MDR and important ODR should be collected, as per the procedure to be laid down by Hr.PW (B&R) Deptt. The traffic data should show classification of motorized, non-motorized, commercial vehicles, etc. The traffic volume data shall also be used as an input in prioritization of maintenance works.
- iv) The Hr.PW (B&R) Deptt. shall identify different types of Road maintenance activities and prepare a manual of technical practices to carry out the same.
- v) The planning of the various maintenance operations will be correlated and looked upon as a total system rather than each activity being considered in

isolation. Based on the condition evaluation, the causes for various defects observed should be examined in detail and a decision taken whether to initiate a particular maintenance activity.

- vi) Hr.PW (B&R) Deptt. shall establish guiding rules for prioritization of road maintenance works, taking into account the evaluation carried out under this Policy.
6. **Modalities for implementation:** Apart from existing procedures in carrying out Road Maintenance Works, Hr.PW (B&R) Deptt. may adopt various modalities including Performance Based Maintenance Contracts, Private Public Partnerships and Concession Agreements for various kinds of arrangement including incorporation of tolls and distance based rates etc. to be paid by road users etc.
7. **Classification of Maintenance operations:** The intervention and rectification standards for various maintenance activities shall be finalized for different categories or roads Maintenance operations may be classified in four group:
- i) **Routine repair/maintenance** Ordinary repairs and maintenance include pothole repairs, crack sealing, pavement edge and shoulder repair, clearance of side drains, maintenance of embankment, cross-drainage repair works, repair or replacement of road-side furniture and road signage, bridge and culvert repairs, vegetation control, clearance of litter and debris etc.
 - ii) **Periodic repair/maintenance** Periodical renewals include leveling the surface, path repairing, and providing black-topping by way of surface dressing or premix carpet or mixed seal surfacing (or white topping, where required).
 - iii) **Special repair/maintenance** Special repairs and flood damage repairs include (i) special repairs like pavement riding quality improvement (PRQI) including any profile correction (ii) treatment of damages caused by floods, cyclones and other natural calamities (iii) special repair of bridges.
 - iv) **Emergency repair/maintenance** refers emergency conditions like collapses or severe damages of road any other matter emergent in nature. This excludes the work of emergent nature that can be taken up under State Disaster Response Fund (SDRF).
8. **Classification of Roads:** Hr.PW (B&R) Deptt. shall classify the roads under its jurisdiction as State Highways, Major District Roads, Other District Roads and Village

Roads. Latest recommendations of Indian Road Congress through its codes and special publication in respect of quality and specifications as regards quality with regard to surface and width of each class of roads along with that of the shoulders, bridges, culverts, slip roads, signage, safety requirement, crossing and other relevant features or appurtenances as required for safe and efficient use of the road shall be followed. However, Hr. PW(B&R) Deptt. shall be at liberty to make any diversion to these recommendations by issuing separate instructions.

9. **Periodicity of Renewal:** The following broad guidelines, for the type and periodicity of renewals, may be utilized as a guide for working out the requirement of fund for the annual programme on different sections of roads.

(i) **Renewal Interval for State Highways (No. of years)**

Type of Treatment/Category of Road	Traffic Intensity in CVD	**SD-I/SD-II	PC+SC	20mm MSS	25 MM SDBC	25 mm BC	@40 mm BC
SHs(Normal)	>4500	-	-	-	-	5	5
	1500-4500	-	-	-	5	5	-
	450-1500	-	-	5	5	-	-
	< 450	-	5	5	-	-	-
SHs(Urban)	>450	-	-	-	-	4	4
	1500-4500	-	-	-	-	4	-
	450-1500	-	4	4	-	-	-
	< 450	-	4	4	-	-	-
SHs(Hilly)	>1500	-	-	-	4	4	4
	450-1500	-	-	4	4	4	-
	<450	-	5	5	-	-	-

Note:

(i)** This treatment of SD-I /SD-II is to be used under condition of severe resource crunch only. (ii)@ For Exceptionally heavy traffic corridors.

Renewal Interval for MDR/ODR/VR(No. of years)

Type of Treatment/Category of Road	Traffic Intensity in CVD	**SD-I/SD-II	PC+SC	20mm MSS	25 MM SDBC	25 mm BC
MDR/ODR/VR(Normal)	>1500	-	-	-	5	5
	450-1500	-	-	5	5	5
	150-450	-	-	5	5	-
	< 150	5	5	-	-	-
MDR/ODR/VR(Urban)	>1500	-	-	-	4	4
	450-1500	-	-	4	4	-
	150-450	-	4	4	-	-
	< 150	3	4	4	-	-
MDR/ODR/VR(Hilly)	>1500	-	-	-	4	4
	450-1500	-	-	4	4	4
	150-450	-	5	5	-	-
	< 150	4	-	-	-	-

Note:

A) ** This treatment of SD-I/SD-II is to be used under condition of severe resource crunch only.

Notes:

1. SD denotes single coat surface dressing as per IRC:17
2. MS denotes Mix seal surfacing as per Ministry of shipping, Roads & Transport's Specifications for Roads & Bridge Works Clause No. 508.
3. For areas to hilly areas with steep side and heavy rainfall the periodicity of renewal may be at closer interval.

The periodicity of the renewal indicated in the table above will only be taken as general guidelines for the purpose of budgeting and determining the extent of renewal programme.

10. Annual Roads Maintenance Operation Plan: Hr. PW(B&R) Deptt. shall prepare Annual Road Maintenance Operation Plan (ARMOP) covering State Highway, Major District Roads, Rural Roads, with due attention to management of the whole programme, based on availability of fund for road maintenance. It will identify the maintenance works on the state road network, for different classes of roads, including roads in urban areas within the jurisdiction of the Hr. PW(B&R) Deptt., taking into account the condition of roads, bridges, culverts, road signs and other road appurtenances. The officers conferred powers to sanction estimates of ordinary repair (Non Plan) vide Finance Department notification dated 20.02.2008 shall take action as per their competency and allocation of funds for execution of these works shall be done by Head of Department by 15th April of every year . The relevant part of this notification mentioned under clause 5(a) serial No.3 in rule 10.5 is reproduced as under:-

Sr. No.	Technical Sanction	Officer	Powers
3	To accord technical sanction to estimates for maintenance and repair, (Non-Plan) only. a) Ordinary maintenance and repairs. b) Electricity, telephone and water and other energy charges. c) Establishment. d) Municipal and other statutory taxes and charges.	i) Engineer-in-Chief. ii) Chief Engineers. iii) Superintending Engineers. iv) Executive Engineers.	Full powers Rs. 100.00 lacs. Rs. 25.00 lacs. Rs.2.00 lacs

11. Environmental Sustainability:

11.1 In development, construction and maintenance of road schemes in rural and urban areas, its supporting infrastructures, appurtenances, safety features etc, the Department shall make best possible efforts to implement technologies that are environmentally friendly, have a low carbon footprint and provide smooth access to all sections of society, including the disabled, in a safe manner.

11.2 The Department shall amend/develop necessary Codes and Manuals to implement construction and maintenance of roads in an environmentally and disabled friendly manner also put into place assessment methodologies to evaluate the environmental and disabled friendliness and safety of various types and classes of roads.

12. **Dedicated Road Maintenance Fund:** State Govt. shall provide funds on a sustainable and dependable basis for maintenance of state roads. Apart from the above sources of fund Hr. PW(B&R) Deptt. may also explore various other modalities including performance based – PPP and Concession Agreement for BOT, BOOT.

Out of funds allocated under non-plan head, first priority shall be given to routine maintenance and second to periodical repair. Special repair shall be given priority after periodical repair.

13. **Monitoring, Testing and Capacity Building.**

13.1 Hr. PW (B&R) Deptt. shall utilize computerized road maintenance management and monitoring systems for continuous monitoring of road condition and maintenance requirements, implementation of road maintenance works and other related activities.

13.2 Hr. PW (B&R) Deptt. may prescribe procedures for testing and evaluation of various materials and technologies involved in road maintenance, quality testing of in progress and finished work and as appropriate and may specify practices or set up necessary testing facilities for the same.

13.3 Hr. PW(B&R) Deptt. shall enable capacity building of its engineers, staff and other human resources in modern technologies, project implementation, monitoring, supervision and quality testing and operational practices.

14. **Budgeting and Financial Resources:**

14.1 Based upon the data supporting the Road condition the annual renewal programme, to be included in ARMOP, will be drawn up by the Hr. PW(B&R) Deptt. well in advance of the implementation period, A schedule of the maintenance operations to be taken up under the ARMOP should also be prepared. The ARMOP and the implementation


schedule should be approved by the Govt. of Haryana and sanction of available financial resources will be made in a timely manner.

14.2 The budgeting for maintenance expenditure under the ARMOP will also be done well in advance by the Govt. of Haryana before the start of the relevant financial year along with allocation of resources to the different operations/components under the Plan

1. **Monitoring of progress and review:**

The Engineer-In-Chief, Hr. PW(B&R) Deptt. shall be responsible for implementation of the ARMOP and he shall exercise all powers delegated to him by the Government in planning, procurement, execution and monitoring of the works included in the ARMOP.

2. Interpretation: If any question arises relating to the implementation of these rules, the same shall be referred to the Government for its decision; which shall be final. The decision of the Government shall be implemented.



(Hardeep Kumar)

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Dated: 23-7-16

Chandigarh