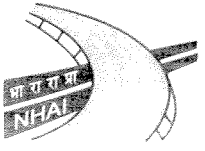


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## भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Shipping, Road Transport & Highways)

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

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June 3, 2005

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### **POLICY MATTERS: TECHNICAL ( 53/2005)**

[Decision taken on CM Division's Note dated 28.05.2005]

#### **Sub: Maintenance of entrusted highways during monsoon – Regarding.**

In view of coming monsoon season, all Project Directors are advised to take necessary preventive / precautionary measures and be in state of preparedness to meet any eventuality arising out of heavy rains and floods during the monsoon. All the National Highways which have been entrusted to NHAI for widening and strengthening or completed corridors under CM Division should be kept in traffic-worthy condition under all circumstances.

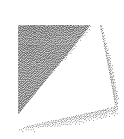
The responsibility for works of maintenance in the sections where widening and strengthening work is in progress is of the civil contractor. The O&M contractors / operators are responsible for the sections under CM Division.

The following guidelines may be kept in view while formulating and finalizing the action plan on the subject:

#### **1. Sections under Corridor Management Division:**

- a. All cross drainage works must be inspected immediately and it may be ensured that there is no debris / dismantled material / any other obstruction in the water way.
- b. All pucca drains, kaccha drains, median drains, sub-surface drains, drainage spouts on bridges and drainage pipes in the kerb between the main road and service road etc. are properly cleaned and maintained so that there is no ponding of water on the carriageway or service road.

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- c. Embankment protection and stone pitching etc. at all Cross Drainage Works may be checked in advance and rectified if required.
- d. Special attention / vigilance needs to be given to cross drainage structure and embankment at the location of major rivers and canals where there is a past history / precedent of flood damages.
- e. Regular movement of route patrol vehicle during the rainy season may be ensured and staff on route patrol vehicle should be educated and trained for reporting of any unusual observation during patrolling to the Project director immediately. The Project Director should also make frequent inspection of the sections during monsoon period specially during the days when there is heavy downpour.
- f. Contact telephone no. of ambulance services should be displayed at regular intervals specially near the accident / flood prone locations so as to provide immediate help in case of any emergency.

2. **Sections / packages under construction:**

- a. It may be ensured that no dismantled or construction material is lying in the water way of any C.D. works which is under construction or has been completed recently.
- b. For the bridge / C.D. works which are under construction, adequate arrangements for drainage by providing suitable numbers of pipes at the time of staging /shuttering be ensured at site.
- c. No construction material / debris / loose soil should be dumped on road surface.



- d. The surface of embankment or sub-grade should at all times during construction be maintained at such a cross fall as will shed water and prevent ponding.
- e. The placement of construction material / earth in median / carriageway should be checked and ensured that there is no spillage of such materials or mud due to flow of water on the carriageway under use so as to avoid any slippery surface causing accidents.
- f. The key personnel of contractor / consultant and staff of NHAI should maintain a comprehensive list of service provider of ambulance, hospitals and trauma care centers which have the facilities to take care of the accident victims. Such details should also be readily available at the camp site of the contractor, office of the consultant and PIU office of NHAI and displayed at accident prone locations.

3. **Preparedness for all sections:**

- a. Inventory of all equipment and machinery which are required during floods / rainy season along with their availability should be prepared in advance and kept handy in each PIU/CMU.
- b. Necessary liaison and co-ordination with district administration / flood control centre of the concerned district / state government should be maintained.
- c. At critical locations / flood prone sites, arrangements for required material / gunny bags and labour etc. may be made in advance to meet any emergency requirements.



- d. Advance warnings signs regarding portions of any of the highways closed / damaged or diversion or any other information which needs to be advised to the road users should be prepared in advance.
- e. Each PIU/CMU will designate one officer in charge for liaison and monitoring of the flood related activities. Further, each PIU/CMU shall maintain liaison and co-ordination with adjoining PIU/CMU to meet any emergency situation.
- f. All contractors working on the highway projects in NHAI must be advised to take all necessary safety measures, precautions during construction to protect the work and ensure safety of the road users during heaving rains and floods. Further, the area under excavation / trenching should be properly cordoned off by providing suitable barricading and arrangement for providing lighting, retro-reflective tapes, sign boards should be made at such hazardous locations.

  
(G.P. Chand)  
General Manager (Admn.)

To :

All PIUs/ CMUs/SPVs

Copy to :

1. PS to Chairman
2. PS/PA to all Members / CGMs
3. All GMs / DGMs

