

EFile No.:RW/NH-35083/05/2021-S&R(P&B) (Computer No.-192770)

Government of India

Ministry of Road Transport & Highways
(S&R (P&B/New Technology) Zone)

1100.38

Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated: 30th March 2026CIRCULAR

To

1. The Chief Secretaries of all the State Governments/ UTs.
2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department/ Road Construction Department/ Highways Department (dealing with National Highways and other centrally sponsored schemes).
3. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
4. The Managing Director, NHIDCL, World Trade Centre, New Delhi-110029.
5. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.
6. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs/ Road Construction Department/ Highways Departments (dealing with National Highways and other centrally sponsored schemes).
7. The Secretary General, Indian Roads Congress.
8. The Director, IAHE, Noida, UP.
9. All CE-ROs, ROs and ELOs of the Ministry.

Subject: Inventories and Condition Assessment of Reinforced Soil (RS) Wall in National Highways (NHs) Projects- Reg.

Ref: (i) Ministry Circular EFile No.:RW/NH-35083/05/2021-S&R(P&B) (Computer No.-192770) Code 1100.37 dated 16th March 2026.

Madam/Sir,

Ministry had issued policy circular vide under reference regarding 'Standard Operating Protocol (SoP) for Use of Reinforced Soil (RS) Wall Technology'. In continuation of the same, it was decided to inventories and conduct condition assessment of RS Wall retaining structure in National Highways (NHs) projects so that predictive/pro-active repair/rehabilitation measures will be taken. In this regard, following has been decided:

- 100% inspection of RS wall structures shall be completed before the monsoon season, focusing on structures completed in last 1 year or currently under construction.
- The inspection of RS wall structures needs to prioritized as under: -
 - a) RS wall structures completed in the last one year.
 - b) RS wall structures under construction in brownfield areas.
 - c) RS wall structures under construction in greenfield areas.

2. Accordingly, an inventory and condition assessment format has been enclosed at **Appendix**. It is requested that PD of the PIUs shall conduct this condition survey. All the details should be recorded with geo-tagged locations and with date & time stamped

Bidur Kant Jha

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photographic evidence of type, extent and severity of the distress. All such reports shall be uploaded on Data lake.

3. The inspection reports of RS walls will be reviewed and monitored by the ROs and at HQ level by the ADGs/Member, NHAI/Director, NHIDCL.

4. It is requested that the contents of the circular may be brought into the notice of all concerned for needful compliance.

5. This issues with the approval of the Competent Authority.

Yours sincerely,

Bidur Kant Jha
30.03.2026

(Bidur Kant Jha)

Director

(New Technology for Highway development)

For DG (RD) & SS

Enclosure: Appendix- RS Wall Condition Survey Format (03pages).

Copy to:

1. All CEs in the Ministry of Road Transport & Highways
2. All ROs of the Ministry of Road Transport & Highways
3. All CE(NH) of PWD/R&B dealing with National Highways
4. Technical circular file of S&R (P&B) Section
5. NIC-for uploading on Ministry's website under "What's new" & "Comprehensive Compendium Circulars with CODE 1100.38.

Copy for kind information to:

1. PS to Hon'ble Minister (RT&H)
2. PS to Hon'ble MOS (RT&H)
3. Sr. PPS to Secretary (RT&H)
4. Sr. PPS to DG (RD) & SS
5. Sr. PPS/ PPS to Addl. Secretary (Road Safety)/ Addl. Secretary (RT&H & LA)
6. Sr. PPS/ PPS to AS&FA
7. Sr. PPS/ PPS to all ADGs/CEs
8. Sr. PPS/ PPS to JS (RT&MVL)/ JS (EIC) / JS (Logistics)/ JS (NHIDCL)

Visual Assessment of RS Wall

1.1. RS Wall Condition: (If answer is 'yes', give details, like locations, respective value if applicable)

- Deformation Monitoring:
 - Facing panel bulging: Yes/ No
 - Tilting of Wall: Yes/ No
- Noticeable Gap between Joints: Yes/ No
- Cracking of Panels: Yes/No
- Panel mis-alignment: Yes/No
- Evidence of Washing of Fines through Panel Joints: Yes/No
- Vegetation growth on Wall Facing: Yes/ No
- Potholes /Cracking/Rutting on the Supported Road: Yes/ No

1.2. Drainage Performance: Internal & External: (In case of adverse remarks, give details)

- Are Drainage Outlets present on Road: Yes/ No
- Are Road Drainage Outlets Connected Properly to local Drainage Outlet: Yes/ No
- Are Drainage Outlets or Local Drainage Outlets blocked: Yes/ No
- Is Internal Drainage system connected to local Drainage outlet: Yes/No
- Is Internal Drainage system working satisfactorily as evident from water flow: Yes/No
- Evidence of Washing of Fines through Internal drainage outlets: Yes/No

1.3. RS wall-Abutment Junction: (Give answers as applicable; In case of adverse remarks, give details)

- Is Closing Wall resting on Pile Cap at the base: Yes/ No
(If yes, give details, such as slip joint, clear gap, settlement, ground improvement)
- Is clear gap between dirt wall and closing wall more than 4m: Yes/ No
(If yes, give details of end support and if it is designed as true bridge abutment)
- Adequate Gap between the bottom of gap/approach slab and the top of closing wall: Yes/ No
(Give amount)
- Is transition from Bridge to RS wall smooth without jerk and bump: Yes/No
(if 'No', give details and reasons thereof)
- What type of junction it is – One with both approach and gap slab type, monolithic slab type or LVUP/Minor Bridge type
- Is intermediate pedestal footing is present and is it resting on RS wall facing: Yes/ No
(If Yes, give its distance from closing RS wall)
- Are Crash barrier and Friction slab independent unit without any monolithic connection with gap/approach slab and/or pedestal: Yes/ No

(If no, give details and justification)

- Are Crash barrier and Friction slab independent units without any monolithic connection with monolithic gap cum approach slab, or gap/approach slab and pedestal: Yes/ No
(If no, give details and justification)

1.4. Observation Points in case of Partial Height RS walls

- Condition of top slope
(Give details about slope - hard facing or vegetative facing; outward bulging; erosion gullies, slippage/lifting-up of tiles, undulations/settlement of top horizontal surface directly over slope)
- Are Drainage outlets meant for draining top slope working satisfactorily: Yes/No
- Is water ponding and seeping through slope: Yes/No

1.5. Frequency of Inspection & Maintenance

Road, RS wall Condition and RS wall-Abutment Inspection: Every 3 months

Drainage Inspection: Every month during Monsoon

Drainage Maintenance Checklist: Every month during Monsoon

- Cleaning of Drainage Inlet on Road and Local Drains
- Cleaning of Local drain connected to Internal drainage system
- Check Ponding of Water on Road Surface

Mandatory Inspection of All Above (1.1 to 1.4) in the following events

- Approximately One Week before Arrival of Monsoon
- Heavy Rainfall Event
- Flood Event
- Seismic Event (above Magnitude = 4)