



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways, Government of India)

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भाराराप्रा/ नीति दिशानिर्देश / गुणवत्ता आश्वासन/2026 नीति परिपत्र सं. 15.13/2026 दिनांक 31st जुलाई, 2026

{(ई-ऑफिस फाइल सं. DESIGN-11/3/2026-Design Division (कम्प्यूटर सं. 321821 पर लिया गया निर्णय))}

NHAI/ Policy Guidelines/ Quality Assurance /2026 Policy Circular No. 15.13/ 2026 dated 31st July, 2026

{(Decision taken on E-Office File No. DESIGN-11/3/2026-Design Division (Comp No.321821))}

विषय: राष्ट्रीय राजमार्ग परियोजनाओं के लिए रॉकफॉल (चट्टानों का गिरना) शमन उपायों हेतु अनिवार्य प्रमाणन और गुणवत्ता आश्वासन सहित विशिष्ट निर्देश पर दिनांक 01.07.2026 के सड़क परिवहन और राजमार्ग मंत्रालय के परिपत्र के कार्यान्वयन के संबंध में।

Sub: Implementation of MoRT&H Circular dated 01.07.2026 on "Specification including mandatory Certification and Quality Assurance for Rockfall Mitigation Measures for National Highways Projects" - reg:-

संदर्भ: सड़क परिवहन और राजमार्ग मंत्रालय परिपत्र संख्या ई-फाइल संख्या आरडबल्यू / एनएच-33044/55/2021-एसएंडआर(पीएंडबी)पार्ट/हिल स्लोप मॉनिटरिंग दिनांक 01.07.2026 (प्रति संलग्न)

Ref: MoRT&H Circular no E-file No. - RW/NH-33044/55/2021-S&R (P&B) pt. /Hill Slope Monitoring dated 01.07.2026 (Copy enclosed)

संवेदनशील और भंगुर संस्तरों वाले कई पहाड़ी क्षेत्रों से लगातार होने वाली रॉकफॉल की घटनाओं के समाधान के लिए, सड़क परिवहन और राजमार्ग मंत्रालय ने संदर्भित पत्र के माध्यम से राष्ट्रीय राजमार्ग परियोजनाओं के लिए रॉकफॉल शमन उपायों हेतु अनिवार्य प्रमाणन और गुणवत्ता आश्वासन सहित व्यापक विशिष्ट निर्देश जारी किए हैं।

To address consistent Rockfall failures reported from numerous Hilly Terrain Sites with sensitive and fragile strata, Ministry of Road Transport & Highways (MoRT&H), vide letter under reference has issued comprehensive specifications including mandatory Certification and Quality Assurance for Rockfall Mitigation Measures for National Highways Projects.

2. इन दिशानिर्देशों में रॉकफॉल शमन कार्यों में उपयोग की जाने वाली सामग्रियों के लिए गुणवत्ता आश्वासन, पता लगाने की क्षमता और प्रमाणन को मानकीकृत करने के लिए एक संरचित दृष्टिकोण को अनिवार्य किया गया है, जिसमें शामिल हैं:

- अनिवार्य प्रमाणन/सत्यापन (उत्पादों के लिए ईटीए प्रमाणपत्र और सीई मार्किंग)
- गुणवत्ता आश्वासन (सामग्री मात्रा अनुरूपता प्रमाणपत्र, बारकोड एकीकरण, और इन-हाउस परीक्षण क्षमताएं, परियोजना दोष दायित्व अवधि (डीएलपी) के दौरान वारंटी दायित्व आदि)
- स्थायित्व
- निष्पादन के दौरान रॉकफॉल उत्पाद आपूर्तिकर्ता की भागीदारी
- स्थापना पश्चात प्रचालन और अनुरक्षण (ओएंडएम) और निरीक्षण प्रोटोकॉल।

Contd.....2/-

The Guidelines mandate a structured approach to Standardize Quality assurance, Traceability and certification for materials used in Rockfall Mitigation Works, covering:

- (i) Mandatory Certification/Validation (ETA certificate and CE marking for products)
- (ii) Quality Assurance (Material Quantities Conformity Certificate, Barcode Integration, and In-house Testing Capabilities, Warranty obligations during the project Defect Liability Period (DLP) etc.)
- (iii) Durability
- (iv) Involvement of Rockfall Products supplier during execution
- (v) Post-Installation Operation & Maintenance (O&M) and Inspection Protocols.

3. सड़क परिवहन और राजमार्ग मंत्रालय ने निर्देश दिया है कि ये विशिष्ट निर्देश पूरे भारत में पहाड़ी क्षेत्रों में सड़क परियोजनाओं के लिए सभी चल रहे और आगामी डीपीआर परामर्श कार्यों के साथ-साथ चौड़ीकरण या नए निर्माण परियोजनाओं के लिए लागू की जाएंगी।

MoRT&H has directed that these specifications shall be made applicable for all ongoing and upcoming DPR consultancy works for Hill Road Projects as well as widening or new construction Projects in Hilly Terrain all over India.

4. तदनुसार, उपरोक्त परिपत्र की एक प्रति सभी तकनीकी प्रभागों, क्षेत्रीय कार्यालयों (आरओ) और परियोजना निदेशकों (पीडी) द्वारा अनिवार्य अनुपालन के लिए इसके साथ संलग्न है।

Accordingly, a copy of the aforesaid Circular is enclosed herewith for strict compliance by all Technical Divisions, Regional Offices (ROs) and Project Directors (PDs).

5. यह सक्षम प्राधिकारी के अनुमोदन से जारी किया जाता है।

This issues with the approval of Competent Authority.

संलग्नक: यथोपरी।

Encl.: As stated above.

(सीएस. संजय कुमार पटेल/ CS. Sanjay Kumar Patel)

प्रभारी मुख्य महाप्रबंधक(समन्वय) (i/c) Chief General Manager (Coord.)

प्रति/ To:

भाराराप्ता मुख्यालय/आरओ/पीआईयू/सीएमयू/साइट कार्यालयों के सभी अधिकारी।

All Officers of NHAI HQ/ ROs/ PIUs/ CMUs/ Site Offices.

प्रतिलिपि/ Copy to:

1. पुस्तकालय की साइट पर प्रकाशन के लिए पुस्तकालय को।
Library for hosting the Circular on Library site.
2. परिचालन के लिए वेब एडमिन को।
Web Admin for Circulation.
3. सचिव, सड़क परिवहन और राजमार्ग मंत्रालय के प्रधान निजी सचिव को सूचनार्थ।
PPS to Secretary, MoRT&H for Kind Information.

Efile No.RW/NH-33044/55/2021-S&R (P&B) pt. /Hill Slope Monitoring
(Computer No.219394)

Government of India

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

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

305.15

Dated: 1st July 2026

CIRCULAR

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: Specification including mandatory Certification and Quality Assurance for Rockfall Mitigation Measures for National Highways Projects- Reg.

Ref: i) Ministry Letter No. Efile No.RW/NH-33044/55/2021-S&R (P&B) pt. /Hill Slope Monitoring (Computer No.219394) dated 28.11.2024.

ii) Ministry Letter No. EFile No. RW/NH-33044/37/2025-S&R (P&B) (Computer No.-255492) Code 305.14 dated 07.11. 2025.

Madam/Sir,

Ministry had issued 'Expert Committee Report on Cost Effective Long-term Remedial Measures for Landslide Prone Areas in Hilly Regions' cited under reference (i) for finalising investigations and mitigation measures to safeguard communities and infrastructure against the devastating impact of landslides in hill roads. It serves as an essential step of administrative framework, translating policy objectives into actionable directives and ensuring a standardized approach across government agencies and departments.

2. Further, Ministry had issued 'Additional Augmented and Systematic Remedial Measures to Address Concerns regarding Construction of National Highways in Hilly Regions and Amendments to the RFP for DPR/EPC Document thereof' cited under reference (ii) to include adequate provisions of hill slope protection measures and additional construction time to compensate for Terrain-difficulty related formation cutting & slope stabilization.

Bidur Kant Jha

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3. Consistent rockfall failures have been reported from numerous hilly terrain sites with sensitive and fragile strata type. Therefore, need was felt to review the existing specification of design and construction of rockfall mitigation measures. The review yielded the following:

3.1 The applicable manual for design and construction of rockfall mitigation measures specify reference & cross-reference of several available guidelines and standards from around the world such as IRC, IS, ISO, BS, AASHTO, FHWA, ASTM, UNI, WSDOT, CIRIA, EAD, ONR, MoRTH, etc. These specifications/standards are wide open and very difficult for the practitioner to select the most appropriate one.

3.2 The credibility of the rockfall and slope failure mitigation products, gets compromised mainly due to non-compliance with any of above universal guidelines, which must certify their performance and physical properties.

3.3 Review of above guidelines/standards reveals that the European Assessment Document (EAD) has specific guidelines and testing kits for all major rockfall mitigation product types.

4. In view of above, need was felt to have a comprehensive Specification including mandatory Certification and Quality Assurance aligned with global best practices for Rockfall Mitigation Measures for National Highways Projects. These guidelines aim to standardize quality assurance, traceability and certification for materials used in rockfall mitigation works on national highways projects. Compliance ensures quality products, implementation of the required quantity of the items, enhanced safety, durability and accountability in project execution. Accordingly, following has been decided for climate resilient road infrastructure resisting seasonal disruptions to road connectivity, improving safety and reliability of protection systems and to ensure high quality of systems to be implemented:

4.1 **Mandatory Certification/Validation:** The rockfall mitigation products supplier for NHs projects shall have valid European Technical Assessment (ETA) certificate as well as CE marking for their products in conformity with European Assessment Document (EAD) as per their applicability and intended functions. These EADs are as under:

- i. EAD 230004-00-0106: Wire Ring Mesh Panels
- ii. EAD 230005-00-0106: Wire Rope Net Panels
- iii. EAD 230008-00-0106: DT Steel Wire Mesh W or W-O Ropes*
- iv. EAD 230025-00-0106: Flexible facing systems for Slope Stabilisation and Rock Protection
- v. EAD 340020-00-0106: Debris Flow & Landslide
- vi. EAD 340059-00-0106: Falling Rock Protection Kits
- vii. EAD 340089-00-106: Falling Rock Protection Kits with Energy level less than 100KJ
- viii. EAD 340109-00-0106: Flexible Avalanche Protection Kit

All the primary and secondary meshes/nets/kits used for rockfall mitigation/rockfall protection/slope stabilisation shall have valid ETA certificate and CE marking.

*When citing ED 230008-00-106: For the purpose of primary mesh, only the Double twisted (DT) mesh reinforced with steel wire ropes shall be used.

Certificates shall be submitted prior to material deployment. ETA certificate shall clearly mention the name and address of manufacturing facility.

Bidur Kant Sharma

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4.2 Quality Assurance:

4.2.1 Material Quantities Conformity Certificate: Besides quality of the products, it is utmost important that the required quantities as per design should be executed at site. Contractor shall submit Material Quantities Conformity Certificate for all rockfall protection and slope stabilization materials such as rockfall meshes/nets, self-drilling anchors/soil-nails, rockfall barriers, erosion control mats, etc. procured. This certificate shall be issued by the product manufacturer from whom contractor has procured the materials. The certificate shall include:

- Declaration of Performance & Conformity
- Detailed description of the material with quantities supplied.
- Date of billing.
- Specified work site location.
- Project name.
- Validity period of certificate

This ensures full traceability from procurement to installation. A typical format is given at Appendix.

4.2.2 Barcode Integration in Material Quantities Conformity Certificate and Physical Tagging: Each Material Quantities Conformity Certificate must feature a scannable barcode/QR code linking to verifiable details. In addition, a weatherproof and non-tearable physical tag with the scannable barcode/QR code must be securely affixed to each supplied unit of material. The barcode/QR code on both the certificate and the physical tag must link to identical verifiable details, including: -

- Billing date.
- Lot number.
- Details of material with current & cumulative quantities.
- Name of manufacturing facility.

The values encoded on the certificate barcode/QR code and the physical tag barcode/QR code must match exactly. In the event of any discrepancy between the two, the material shall be rejected. Where a physical tag is claimed to have been lost or damaged during transit, the material will not be accepted unless accompanied by a signed letter from the manufacturer that confirms the original tag values, references the corresponding lot number and consignment/delivery details, and certifies that these values match the corresponding Material Quantities Conformity Certificate.

Contractors shall demonstrate barcode functionality during inspections for real-time verification.

4.2.3 In-house Testing Capabilities of the Manufacturer: All manufacturing facilities supplying materials under these guidelines must maintain an in-house NABL/ISO 17025-accredited testing laboratory capable of performing the following tests:

- Rockfall Protection Mesh Punching Resistance Test (as per relevant ETA/EAD standards).
- Rockfall Protection Mesh Tensile Resistance Test (as per relevant ETA/EAD standards).

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4.2.4 Manufacturer's Test Certificate: Contractors shall submit all certificates, EAD certified product specification/technical data sheet and test reports received with material dispatch advice. Test reports shall be referenced in the conformity certificate and available for review by AE/IE. A typical format is given at **Appendix**.

The rockfall material provider is obligated to submit the mechanical, geometrical and material characteristics of all the components of the rockfall protection/ barrier kit recorded under the pre-test data in the Technical Assessment Body (TAB) of European Organization for Technical Assessment (EOTA) certified test report for Maximum Energy Level (MEL), in accordance with sub-clause A8 of Annexure A - Impact test Method according to the EAD 340059-00-0106.

It is not necessary to submit the entire TAB certified test report; the TAB certified component list from the test report shall only be mandatorily provided to ensure that all the components of the rockfall protection/ barrier kit supplied at the projects are equivalent or superior in terms of the mechanical, geometrical and material characteristics of the rockfall protection kit's components as recorded in the MEL test report.

4.2.5 Confirmatory Tests on Samples collected from Field: Rockfall nets collected from field shall be tested for each lot or a min qty of 3,000 Sq.m. The sampling and testing shall be done under the supervision of AE/IE. Photographic evidence with geolocation shall be submitted along with the test results for approval. The testing facility shall be NABL /ISO certified and shall have capabilities of performing both tensile and punching strength tests. Non-compliance leads to material rejection as well as blacklisting of the supplier. Also, pull-out tests of the foundation anchors/lateral anchors/upslope anchors should be carried out at site.

4.2.5.1 Method for Conducting Pull-Out Test on Anchor Bars and Rock Bolts/Soil-nails: Pull-out test should be carried out in accordance with IS:11309. The number of tests conducted is as per agreement. In absence of that, minimum 2.0% sample should be tested for proof check. Atleast 3 tests shall be conducted in one rock formation and minimum of the 3 results should be considered. The test points should be selected randomly and represent the entire area of treatment i.e. top, middle, bottom.

4.2.6 Warranty from Rockfall Products Supplier: Suppliers'/Manufacturers' warranty against material defect is limited to the declared performance of the system as submitted with reference to para 4.2.4, in line with the project requirements, up to: -

- (i) the period of project DLP.
- (ii) In a rockfall / natural hazard event within the project DLP, the contractors at their own cost shall be obligated to conduct all repair / rectification / remedial works of the rockfall protection barrier if the rockfall protection barrier system assessment conditions after the impact comply with the provisions under **Annexure-I**;
- (iii) the contractors shall not be obligated for any repairs / remedial works at their costs within project DLP in case the conditions after the impact do not comply with the provisions under **Annexure-I**.

The nominal height (h_N) of the barrier as per EAD 340059-00-0106 shall be recorded and submitted to the Independent/Authority Engineer-in-charge every time the barrier is newly commissioned or reset/ reinstated by the contractor.

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5. A thorough field-investigation provides the necessary input parameters for the final design. Since the specifications of the mitigation measures are dependent on-site conditions, these should be finalized by the designer.

6. **Durability:** Corrosivity category of the project environment should be determined as specified in ISO 9223. The project specific exposure condition data such as SO₂ deposition rate, Chloride deposition rate, Temperature & relative humidity should be taken from Central pollution Control Board (CPCB) website. Suitable corrosion protection coatings of the rockfall protection systems shall be considered having working life of

- a. **50 years** [only if the atmospheric environment conditions are limited up to C2 category, as per ISO 9223];
- b. **25 years** [only if the atmospheric environment conditions are limited up to C3 category, as per ISO 9223];
- c. **10 years** [only if the atmospheric environment conditions are limited up to C4 category, as per ISO 9223];

however, for even more aggressive conditions, i.e. beyond C4 category, the practical working life of a specific product shall be decided by the designer.

6.1 **System components and accessories:** All non-galvanized and hot-dip galvanized components need regular check and maintenance by the contractor to minimize any damage to the anti-corrosive properties and coating of the specialized rockfall mitigation systems. Any damage to the anti-corrosion coating of the rockfall protection systems originating & arising at the intersection and/or, point of contact with the non-galvanized/ hot-dip galvanized components shall be repaired and reinstated by the contractor.

Durability shall be applicable, but not limited, to the following accessories, required by the specialized rockfall mitigation systems to perform:

- a. Soil-nails/ rock-anchors/ self-drilling anchors/ continuous threaded anchors/wire-rope anchors
- b. Corresponding size nuts, washers, bearing plates of the anchors, base plates of posts.
- c. Boundary ropes, wire rope clips, shackles
- d. Secondary mesh
- e. Lacing wire/ connecting clips and all other similar connection elements

7. **Involvement of Rockfall Products Supplier during Execution:** Contractor/Concessionaire shall ensure signing of agreement between the Contractor/Concessionaire and Rockfall Products Supplier before use of rockfall mitigation material in NH Project.

The agreement shall have the provision of involvement of the rockfall products supplier during execution from start to end of the rockfall mitigation construction. Rockfall products supplier shall be responsible for all aspects of rockfall mitigation construction as per the product's standard operating procedure/methodology including accuracy of geotechnical investigations data through confirmatory/validation test, design, supervision and ensuring quality of construction, quantity executed including installation.

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A copy of such agreement shall be furnished to AE/IE and to RO of the Ministry/ NHAI/ NHIDCL for reference and record.

Access to the site/ installation points shall be made available to the supplier/ technology provider by the contractor for all types of technical assistance, as required by the supplier/ technology provider.

8. **Post-Installation Operation & Maintenance (O&M):** Rockfall/Slope protection, slope stabilisation systems, Debris flow barriers and dynamic barriers are energy-dissipating systems that can lose functionality after events if not cleaned, re-tensioned, or if brake elements are not inspected/replaced. Thus, routine visual inspection (monthly during monsoon / quarterly otherwise), mandatory event-based inspection (immediately after every rockfall/debris impact event) and detailed annual inspection (rope corrosion, clamps, net damage, brake elements, anchor heads, post alignment, foundation distress) should be conducted. The supplier/contractor shall submit a Post-Installation Operation & Maintenance Manual including inspection frequency, post-event inspection procedure, criteria for replacement of brake elements/ropes/posts, debris clearance methodology, and reinstatement requirements after impact events. The provisions shall be included in the DPR/BoQ to ensure maintainability during design life.

9. This circular shall be made applicable for all ongoing and upcoming DPR consultancy works for hill road projects or DPR Consultancy work for standalone rockfall mitigation projects.

10. This circular shall be made applicable for widening or new construction projects in hilly terrain all over India, for which bids are already invited but yet to be received; bid due dates in such cases may be suitably extended if required.

11. All project reports prepared through consultants including under PMC contracts shall ensure needful compliance with above stipulations.

12. ROs and PDs of PIUs shall also ensure that Project Reports include Schedule 'B' / 'C' are in compliance with these provisions.

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

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

Yours sincerely,
Bidur Kant Jha
 01/07/2026
 (Bidur Kant Jha)
 Director
 (New Technology for Highway development)
 For DG (RD) & SS

Enclosure: Appendix- QAP formats (04pages) and Annexure-I.

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 305.15.

Copy for kind information to:

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

Bidur Kant Jha

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Annexure-I

1. Detailed Action Plan under Contractual obligations for each impact incidence (Ref. para 4.2.6 of the circular)

In the event of a rockfall/ natural hazard in the functional modules of the rockfall protection barrier system, the contractors at their own cost are obligated to perform the mandatory field actions listed in para 2 below and reinstate the rockfall protection barrier system with the new genuine components (according to the Technical Assessment Body (TAB) certified components list (Ref. para 4.2.4 of the instant policy letter)) to the original form of the barrier if the following assessment conditions are fulfilled

1. The rock mass is stopped by the rockfall barrier.
2. No ruptures occur in the connection components (which remain connected to foundations), posts or ropes. The rupture of a connection component is defined as the complete separation of the component itself into two distinct parts.
3. The opening of the mesh of the principal net and the gaps between the principal net and the bearing rope(s) are not larger than two times the initial size of mesh of the principal net. Elements like mechanical fuses / brakes / dissipators, which are designed to break under impact conditions (which are to be specifically listed in the installation document and to be furnished as part of TAB certified component list (Ref. para 4.2.4 of the instant policy letter), are excluded from the assessment.
4. The residual height (h_R) of the rockfall barrier system after the impact (without removing the rock-mass) is greater than or equal to 70% of the nominal height (h_N).
5. The residual net height at the posts (even in case a number of fuses are broken in that area) is everywhere larger than (or at least equal to) the residual height (h_R).

2. Mandatory Field Actions:

- A thorough physical engineering inspection must be executed across all critical structural load paths, including principal net panels, connection ropes, shackles, and post-base interfaces.
- A detailed damage report along with the field visit/ inspection survey report must be submitted to the Authority Engineer-in-charge within seven (7) days from the rockfall event.
- The system must be fully reinstated and reset strictly according to the step-by-step procedures outlined in the Manufacturer's Official Product Manual.
- This includes, but not limited to, replacing of any activated mechanical brakes / fuses / dissipators, localized ropes, or other sacrificial components.

3. Service Life Re-Conditioning:

During repair and reinstatement of the barrier, the Contractor must restore the barrier to its original baseline nominal height (h_N).

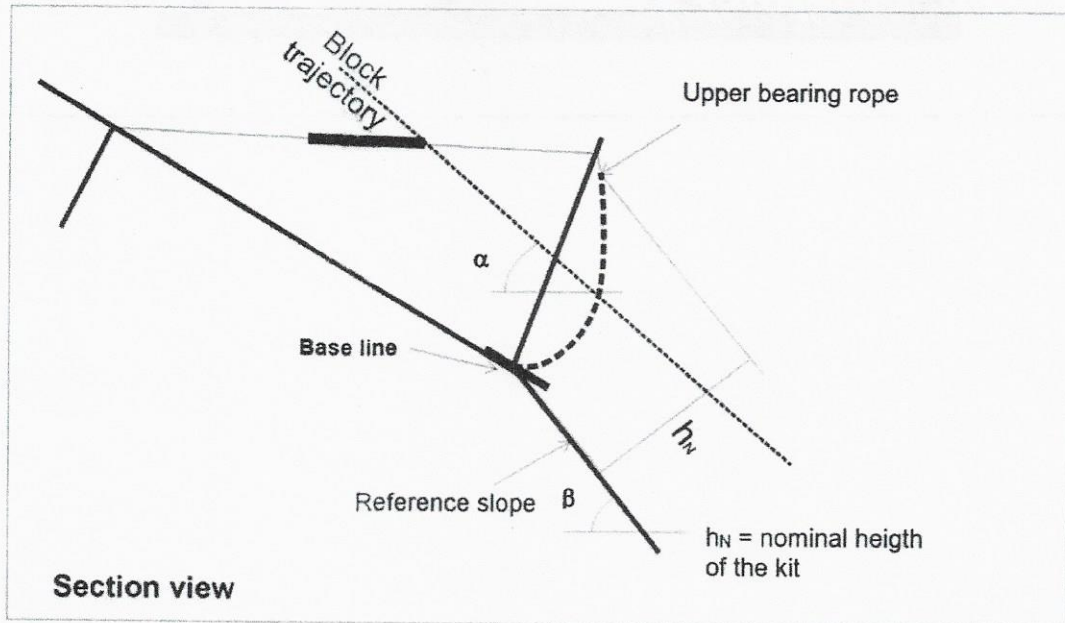
The contractor must submit a declaration to the Authority's Engineer-in-charge certifying that the reinstated barrier has been restored to the original baseline nominal height (h_N).

Only upon inspection of its successful completion and certification by the Authority's Engineer in charge, the reinstated barrier shall be formally cleared and declared as recommissioned.

Nominal height (h_N) -

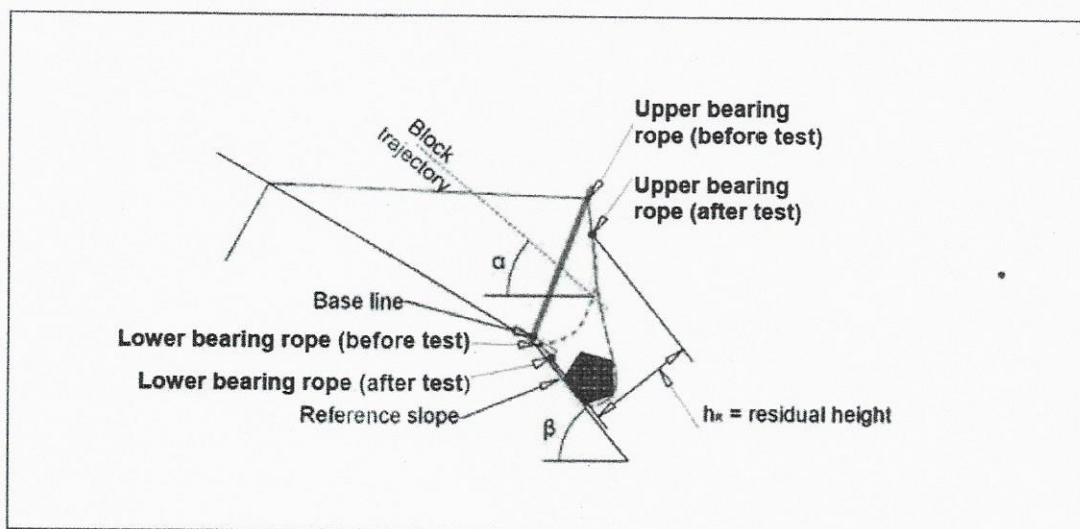
The nominal height (h_N) is measured orthogonally to the reference slope and is the minimum distance between the upper bearing/ support rope and the base line before the impact.

If bearing ropes are not foreseen, the upper edge of the principal net is the reference for the measurement instead.



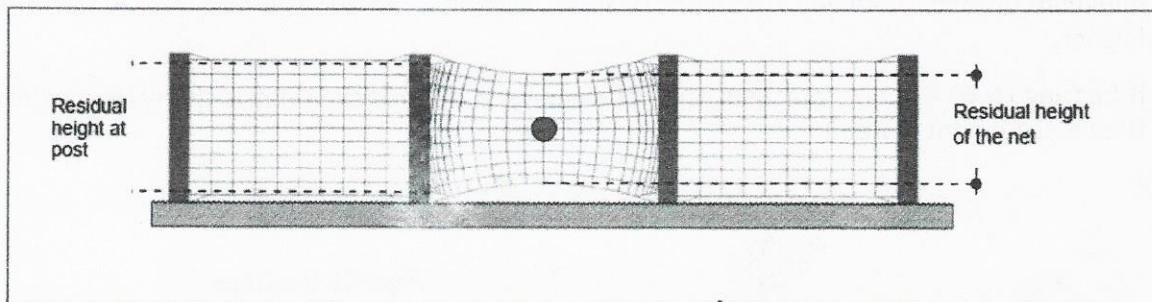
Residual height (h_R) -

The residual height (h_R) is the minimum distance between the lower and the upper bearing ropes, measured orthogonally to the reference slope after the impact without removing the rock mass. If bearing ropes are not foreseen, the edges of the principal net are the references for the measurement.



Bidur Kant Jha

Residual net height at the posts after the impact



Bidur Kant Jha.

[Handwritten signature]

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS
(MoRTH)

MATERIAL QUANTITY CONFIRMATORY CERTIFICATE

Certificate No.	Revision.	Date of Issue
_____	00	_____

1. Work Details

Name of Work: _____

Project / Package No.: _____

Work Location: _____

2. Department / End Client Details

Department / Authority: _____

Division / Circle: _____

Engineer In Charge: _____

Contact Detail: (Mobile & Email id) _____

Authority Engineer / Consultant: _____

3. Contractor Details

Name of Contractor: _____

Registered Address: _____

Contact Details: (Mobile & Email id) _____

4. Manufacturer Details

Manufacturer Name: _____

Manufacturing Facility Address: _____

Contact Detail: (Mobile & Email id) _____

C. Purchase Order Status

S.no	Item Description	Qty as per Tender	Qty as per PO	Qty Billed under Current Invoice	Current Invoice No	Current Invoice Date	Cumulative billed qty till date	Remaining Qty under this PO

7. Lot & Traceability Details

Material	Lot No.	MTC Certificate No.	Quantity	Linked Invoice No. & Date

8. Declaration

This is to certify that the materials listed above have been manufactured, tested, billed, and supplied for the specified project. The quantities indicated herein are accurate and fully traceable to manufacturing lots, material test certificates, and invoices. This certificate is issued for departmental verification and record purposes.

Authorized Signatory (Manufacturer)	Contractor Representative	Authority Engineer
Name: Designation: Seal & Date:	Name: Designation: Seal & Date:	Name: Designation: Seal & Date:

Ministry of Road Transport & Highways (MoRTH)**Manufacturer's Material Inspection & Testing Report**

Document No.	MoRTH/QC/Rockfall/___	Revision No.	00
Effective Date	___/___/___	Page	1 of 1
Project Name		Location	
Contractor		Authority Engineer	

1. Material Information

Material Type	Rockfall Mesh / Barrier / Primary and Secondary Mesh / Other	Manufacturer Name	
Manufacturing Facility Address		ETA/EAD Certificate No.	
Lot No.		Quantity	
Billing Date		Inspection Date	

2. Document Verification

Checkpoint	Complied (Yes/No)	Remarks
ETA/EAD Certification Submitted		
Material Conformity Certificate Available		This will provide the detailed qty of the material provided to the contractor for the above-mentioned project name.
Project & Worksite Details Mentioned		
Validity Period of MTC Specified		
Barcode/QR Code of MTC & conformity certificate		

3. Testing Details

Testing Laboratory Name		NABL Accreditation No.	
Test Frequency	Each Lot / Minimum 3500 Sq.m.	Supervision	Name & Designation of -IIT / Authority Engineer

4. Test Results

Test Conducted	Result	Acceptance Criteria	Status (Pass/Fail)
Tensile Strength Test of Mesh			
Punching Resistance Test Mesh			
Yield Strength of Anchor			
Ultimate tensile Strength of Anchor			

5. Supporting Records

- ☐ Test Reports Attached ☐ Photographic Evidence with Geolocation Submitted
☐ Reports Referenced in Conformity Certificate

6. Final Decision

Inspection Remarks	
Material Status	Approved / Conditionally Approved / Rejected

Contractor Representative	Manufacturer Representative	Authority Engineer
Name & Signature	Name & Signature	Name & Signature