

Type of Proposal: Fresh/ Renewal (x<sup>th</sup>)

| <b>Checklist for Accreditation of New Materials and Techniques<br/>(effective from 01.04.2026)</b> |                                                                                                                                                                                 |                                            |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>S No</b>                                                                                        | <b>Item</b>                                                                                                                                                                     | <b>Brief Details with<br/>Page numbers</b> |
| 1                                                                                                  | Company Name                                                                                                                                                                    |                                            |
|                                                                                                    | Company Registration/Trademark Certificate                                                                                                                                      |                                            |
|                                                                                                    | Patent Details of Material/Technique (if any)                                                                                                                                   |                                            |
|                                                                                                    | GST & PAN No of the Firm                                                                                                                                                        |                                            |
| 2                                                                                                  | Name of Product                                                                                                                                                                 |                                            |
| 3                                                                                                  | Location of Manufacturing Facility and availability in India and abroad                                                                                                         |                                            |
| 4                                                                                                  | Physical and Chemical Composition of the product                                                                                                                                |                                            |
| 5                                                                                                  | Product output specifications in line with National/ International Specifications                                                                                               |                                            |
| 6                                                                                                  | Projects where the proposed product (material/technique) was used in India or abroad                                                                                            |                                            |
| 7                                                                                                  | Evaluation report of the product (material/technique) including laboratory test reports from CRRRI / Government Laboratory/ IIT / NIT                                           |                                            |
| 8                                                                                                  | Execution details/ methodology along with the details of the machinery to be used, if any, or the proposed product                                                              |                                            |
| 9                                                                                                  | Quality assurance and quality control protocol of the product for field application along with acceptance criteria                                                              |                                            |
| 10                                                                                                 | Specific area of applicability/specific prerequisites, if any, for application of the product                                                                                   |                                            |
| 11                                                                                                 | Information on expected durability of the product (material/technique) in comparison to the durability of the conventional product(s) which the new product proposes to replace |                                            |
| 12                                                                                                 | Cost effectiveness supported by calculation comparing presently available / conventional material/technique with the proposed product                                           |                                            |
| 13                                                                                                 | Limitations of the product clearly indicating the condition(s) under which the product is not expected to be used                                                               |                                            |

|                          |                                                                                                                                                                                                                                                                                                             |  |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 14                       | Non- refundable processing fee of<br>₹ 5,00,000 /- (including GST) for fresh product (with 3 years Validity);<br>₹ 5,00,000 /- (including GST) for first renewal (with 2 years Validity);<br>and<br>₹ 10,00,000 /- (including GST) for second/ third renewal (with 2 years Validity)                        |  |
| 15                       | Proposed plan for field performance evaluation                                                                                                                                                                                                                                                              |  |
| 16                       | For fresh accreditation of products already covered by IRC/BIS Specifications/Standards, accreditation shall be accorded only if there are changes/ enhancement in some properties of the product compared to such Specifications/Standards resulting in saving in time and/or cost increase in durability. |  |
| <b>Renewal Checklist</b> |                                                                                                                                                                                                                                                                                                             |  |
| 17                       | Submit all the trial sections executed with the accredited material/technique                                                                                                                                                                                                                               |  |
| 18                       | Field performance report along with performance report/feedback from the Client Department and/or CRRRI / Government Laboratory / IIT/ NIT                                                                                                                                                                  |  |
| 19                       | Suggested draft provisions or amendments to existing IRC document(s) for use of the product<br><b>(applicable for 2<sup>nd</sup> renewal)</b>                                                                                                                                                               |  |

**General Instructions** on documentation and format of submission:

1. All documents must be self-attested by authorized signatory.
2. The application shall be properly indexed and page-numbered with reference to the Checklist. All documents shall be merged and submitted as a single searchable PDF file to IRC.
3. Any test report or performance evaluation report submitted by the applicant shall be issued in the name of the applicant company. Interim reports, unsigned reports, draft reports, or reports not formally addressed to the applicant company shall not be considered by the IRC Committee.
4. Test reports submitted by the applicant shall not be more than 3 years old from the date of application. The test report must clearly mention applicable test standards, including publication year, test method/ procedure. The applicant shall also submit a copy of the applicable test standards to IRC for quick reference.
5. All claims of durability, cost effectiveness, and performance enhancement shall, as

far as practicable, be quantified and the applicant shall endeavour to support such claims with calculations and/or test data.

6. Incomplete submission will not be placed before the accreditation committee.

7. Wherever details cannot be accommodated within the checklist, the applicant shall submit the same as a separate annexure, as per Sr. No. 2 of these general instructions.

### **Instructions to the applicants on submission of documents in sequence of Sl. No. of the Checklist:**

#### **Sl. No. 1: Company Details:**

The applicant shall submit Certificate of Incorporation, GST Registration Certificate, PAN Card Copy, Trademark Certificate (if product name is trademarked), Patent Certificate (if applicable), board resolution/ PoA in favour of authorized signatory.

**Sp. Case a):** In case of foreign company, equivalent registration document duly notarized shall be submitted.

**Sp. Case b):** In cases where the applicant is an Indian entity holding marketing, distribution, or sales rights for a product manufactured by a foreign company, the applicant shall submit a valid and legally enforceable Authorization Agreement / Distribution Agreement / Technology Transfer Agreement, clearly establishing the relationship between the foreign manufacturer and the Indian applicant. A notarized copy of the agreement and a board resolution/authorization letter from the foreign manufacturer confirming the applicant's authority to seek accreditation shall also be submitted.

**Sl. No. 2: Name of the Product:** The applicant shall provide the exact commercial name of the product.

**Sl. No. 3: Manufacturing Facility:** The applicant shall provide full address of the plant, production capacity & quality certifications (e.g. ISO).

**Sl. No. 4: Physical & Chemical Composition:** The applicant shall submit

a) Physical composition such as ingredients/components that physically go into manufacturing of the product along with the physical state, colour, texture, structure, etc. of the product

b) Chemical Composition such as identity, proportioning and arrangement of elements in the product

c) Material Safety Data Sheet (MSDS) containing information on safety, handling, and

hazard classification.

d): Percentage composition (if not fully covered in TDS)

Where the MSDS classifies the product as hazardous, the applicant shall submit detailed safety, handling, storage, environmental compliance, and disposal procedures, along with applicable statutory approvals. Adequate risk mitigation measures for field application shall be clearly demonstrated.

**Sl. No. 5: Product Output Specifications:** The applicant shall submit a comparative compliance statement demonstrating conformity of the proposed product with the relevant National/International Standards/Specifications (e.g., IRC /MoRTH / BIS / ASTM / EN, as applicable). Mere submission of a product brochure or Technical Data Sheet shall not be accepted. The comparative compliance statement shall:

a) Identify the exact applicable standards, including its number, year of publication and applicable Clause no(s).

b) Present a tabulated comparison in the following format:

| Property/<br>Parameter | Relevant clause of<br>applicable standard | Requirement<br>as per<br>Standard | Value of<br>proposal<br>Product | Compliance Status<br>(Complies/Exceeds/<br>Deviate) |
|------------------------|-------------------------------------------|-----------------------------------|---------------------------------|-----------------------------------------------------|
|------------------------|-------------------------------------------|-----------------------------------|---------------------------------|-----------------------------------------------------|

c) All declared values shall be supported by valid test reports & corresponding test method reference.

d) If the product is not covered under any of the existing IRC/ BIS specifications, the applicant shall identify the closest relevant International Standard (ASTM/EN/ISO, etc.) and provide technical justification for its applicability.

**Sl. No. 6: Past Project details:** Kindly submit project name, client name, length/ quantity used, year of execution, completion certificate.

**Sl. No. 7: Laboratory Evaluation Report of the Product** The applicant shall submit a laboratory evaluation report from CRRI/ Govt. Laboratory/ IITs/ NITs. The report must be issued in the name of applicant company & shall not be more than 3 years old. The report shall clearly indicate sample identification & description, date of testing, testing standards & year of publication, detailed test result, conclusion/ remarks of laboratory. Unsigned, interim, draft or incomplete reports shall not be considered. The applicant shall ensure that all properties required under the relevant specification are tested. Partial testing of selective parameters shall not be treated as fulfilment of this requirement.

**Sl. No. 8: Execution details/ methodology**

The applicant shall submit a detailed Method Statement describing the execution

procedure for field application of the proposed product/ material/ technique. It shall include stepwise construction procedure, machinery/ equipment details, skilled manpower requirement, site preparation requirements, critical control stages during execution, climatic or operational limitation, if any. General or brochure type method statement lacking project level detail shall not be accepted.

#### **SI. No. 9: QA/ QC Protocol**

The applicant shall submit a detailed QA/QC Protocol to be followed during field application of the proposed product/material/technique to ensure performance as intended under actual site conditions. The QA/QC Protocol shall cover all construction parameters that influence its performance, including material properties, environmental conditions, equipment calibration, stage-wise inspections, sampling frequency, and defined acceptance/ rejection criteria. Only tests that can be performed on site shall be included.

#### **SI. No. 10: Specific Area of applicability**

The applicant shall clearly define the specific area of applicability and any prerequisites for use of the proposed product/material/technique. This shall include climatic conditions, construction timing, traffic loading, soil or subgrade condition, etc. The applicant shall clearly state conditions under which the product is suitable and where it may not be appropriate.

#### **SI. No. 11: Expected Durability**

The applicant shall submit a Comparative Durability Assessment of the proposed product/ material/technique vis-à-vis the conventional material/technique that it intends to replace. The submission shall include expected service life (in years), basis of estimation, performance data from completed projects (for renewal cases), comparison table with conventional product with supporting test reports or field monitoring data.

#### **SI. No. 12: Cost Effectiveness**

The applicant shall submit a Comparative Performance Evaluation and Life Cycle Cost Analysis (LCCA) comparing the proposed product with the conventional alternative. The submission shall include initial construction cost comparison, maintenance cost assumptions, expected service life (from durability testing), life cycle cost calculation, basis of rate analysis (SOR/ Market rate/ Actual project data), quantified time savings, if claimed. General claims of “economical” or “cost saving” without calculation shall not be considered.

#### **SI. No. 13: Limitations of the Product:**

The applicant shall clearly declare the limitations of the proposed product/material/

technique, if any. This shall include environmental limitations, load/ traffic limitations, situations where use is not recommended, known performance constraints, compatibility restriction with other materials. Failure to disclose known limitations may result in cancellation of accreditation.

**SI. No. 15: Proposed plan for field performance evaluation**

The applicant shall give its own plan for field performance evaluation considering technical requirements, practical considerations, etc.

**SI. No. 16: Product already covered in BIS/IRC standards**

In case the proposed product is already covered under existing IRC/BIS specifications/ standards, accreditation shall be considered only if the applicant demonstrates measurable enhancement in performance parameters. The applicant shall clearly indicate in the Checklist whether the proposed product is covered under any existing IRC/BIS specification. If covered, the relevant standard number shall be mentioned. The applicant shall submit clause wise comparison with existing standard, quantified improvement in properties, supporting test evidence, justification demonstrating savings in cost and/or time, or increase in durability. Applications merely reproducing existing standardized products without enhancement shall not be accredited by IRC. Denial of accreditation by IRC on this ground shall not entitle the applicant to any refund of the prescribed processing fee, which is nonrefundable under all circumstances.

**SI. No. 17: Trial Section details (Renewal Case)**

The applicant shall submit details of all trial sections executed using the accredited product/ material/ technique. The submission shall include project name & location, length / quantity executed, day and year of execution, client details, current condition.

**SI. No. 18: Field Performance Report (Renewal Case):**

The applicant shall submit a Field Performance Report supported by feedback/ performance certification from the Client Department and/or CRR/ Government Laboratory/IIT/NIT. The submission shall include project details, construction details, QA/ QC records, monitoring methodology, observed performance over time including details of test results, distress/ failure details (if any), maintenance history & corrective action taken, photographic documentation (date-stamped).

**SI. No. 19: Suggested draft provisions or amendments to existing IRC document(s) for use of the product (*applicable for 2<sup>nd</sup> renewal*)**

The applicant shall submit draft provisions or amendment(s) to existing IRC documents as considered relevant by the applicant, so that the same can be considered by the relevant Technical Committee