CALL FOR QUOTATIONS

Supply and Application of SRI-Based Heat-Reflective Cool Roof Coating Sant Gadge Baba Beghar Niwara, Akola, Maharashtra

Date of Issue: **November 3, 2026**
Last Date for Submission: November 20, 2026
Proposed Work Completion: **On or before 31 December 2026**

Background and Purpose

Akola experiences prolonged and intense summer heat. Exposed concrete roofs absorb solar radiation throughout the day and release the stored heat indoors, contributing significantly to indoor heat accumulation and thermal discomfort for building occupants, particularly during the peak summer months.

Sant Gadge Baba Beghar Niwara, a shelter home located at Mata Nagar, near Ramdaspeth Police Station, Akola, provides accommodation to vulnerable individuals. The All-India Disaster Mitigation Institute (AIDMI) invites quotations from qualified and experienced vendors/service providers for the supply and application of a high-performance Solar Reflectance Index (SRI)-based heat-reflective coating on the existing concrete roof of the shelter home.

The primary objective of this intervention is to improve indoor thermal comfort for shelter residents by reducing roof-level heat gain.

Scope of Work
The selected vendor shall be responsible for end-to-end execution of the cool roof coating at the shelter home, including but not limited to:

- Detailed site inspection and measurement of the existing concrete roof
- Assessment of surface condition, cracks, moisture, drainage, and application readiness
- Supply of approved, high-performance SRI-based reflective coating materials
- Surface cleaning and preparation, including minor crack sealing and necessary preparatory treatment
- Application of primer, where required by the manufacturer's approved coating system
- Application of a minimum of two (2) coats of heat-reflective coating as per the approved technical specifications
- Uniform application, appropriate coating thickness, curing, and finishing
- Provision of all labour, equipment, tools, consumables, transportation, and site supervision
- Quality control and adherence to appropriate safety procedures throughout the installation
- Final inspection, documentation, measurement certification, and handover

If the vendor identifies significant structural deterioration, major waterproofing defects, or repairs beyond normal surface preparation, these must be reported to AIDMI before commencement of work. Such additional work shall not be undertaken or charged without prior written approval from AIDMI.

Coverage Details (Indicative)

- **Installation site:** Sant Gadge Baba Beghar Niwara, Mata Nagar, near Ramdaspeth Police Station, Akola, Maharashtra
- **Number of facilities:** One (1) shelter home
- **Roof type:** Existing concrete / RCC (Reinforced Cement Concrete) roof
- **Indicative roof area:** 13,000 sq. ft.
- **Application type:** SRI-based heat-reflective cool roof coating

The roof area stated above is indicative and subject to physical verification through joint measurement by the vendor and AIDMI before installation. The final invoice shall be based on the actual jointly measured, verified and approved coated area, adjusted for any variations authorised in writing by AIDMI.

Prospective vendors are strongly encouraged to undertake a physical site inspection before submitting their quotation to assess the existing roof condition, accessibility, surface preparation requirements and indicative measurements. Site visits may be coordinated with AIDMI.

Technical Specifications (Mandatory)

Surface Preparation

- **For the existing concrete / RCC roof:**
  - Mechanical/manual cleaning to remove dust, algae, loose particles, and other surface contaminants
  - Sealing of minor and hairline cracks using compatible cementitious or elastomeric waterproofing compounds
  - Any other preparatory treatment necessary to achieve proper adhesion, as recommended by the coating manufacturer
  - Washing and adequate drying of the surface prior to primer and coating application

Cool Roof Coating – Performance Requirements

The proposed coating system **must meet or exceed** the following minimum standards:

Parameter	Minimum Requirement
Solar Reflectance (Initial)	≥ 0.80
Thermal Emittance	≥ 0.85
Solar Reflectance Index (SRI)	≥ 100 (≥ 120 preferred)
Indicative Heat Reduction	3–5°C indoor temperature reduction
Durability	Minimum 3 years of performance life
Water Resistance	Water-resistant after curing, suitable for exposed concrete roofs and normal rainfall conditions, as supported by the manufacturer's technical specifications
UV Resistance	Suitable for tropical, high-UV exposure
VOC Content	Low VOC, environment-friendly
Finish	White / off-white, non-glare
Compliance	Solar reflectance tested under ASTM C1549 or ASTM E903, thermal emittance under ASTM C1371, and SRI calculated under ASTM E1980, or technically equivalent recognized methods

The primary purpose of this assignment is solar heat reflectance and improved indoor thermal comfort. Minor crack sealing and surface preparation required for proper coating application shall be included in the quoted rate. Major waterproofing repairs, leakage remediation and structural rehabilitation are outside the scope unless separately approved in writing by AIDMI.

The indicative heat reduction is a performance objective and not an unconditional guarantee, as actual results depend on local climatic conditions, building characteristics, and ventilation. Vendors must submit the product technical datasheet and relevant performance test reports demonstrating that the proposed material meets the above requirements. The reported SRI must be supported by the corresponding measured solar reflectance and thermal emittance values. GRIHA, ECBC and IGBC may be referenced as relevant building guidelines but are not substitutes for the test methods specified above.

Application Methodology

- Application through brush, roller, or suitable spray equipment as recommended by the manufacturer
- Application of primer, where required by the approved coating system
- Minimum two (2) coats of SRI-based heat-reflective coating
- Uniform thickness and coverage at the manufacturer's recommended consumption rates
- Adequate intervals between coats and appropriate curing post-application
- Final inspection to ensure coating uniformity, surface adhesion, and finish
- All work is to be carried out strictly in accordance with the approved manufacturer's application instructions
- **Site safety and protection:** As the shelter home will remain operational during the works, the vendor shall ensure:
    - Safe roof access and appropriate safety arrangements for all workers
    - Protection of shelter residents, staff, and existing property
    - Proper handling and storage of coating materials
    - Minimal disturbance to normal shelter operations
    - Cleaning of the site and removal of all installation-related waste upon completion

Deliverables

- Completed SRI-based cool roof coating over the approved concrete roof area, meeting the specified standards
- Jointly verified pre-installation and post-installation measurement records
- Photographs of the roof before, during, and after installation
- Material consumption and application records
- Technical datasheets and relevant performance test reports for the materials applied
- Warranty documentation: The proposed coating system shall have a minimum expected performance life of three years, supported by a written manufacturer's product warranty of at least three years. The selected vendor shall additionally provide a minimum twelve-month workmanship warranty covering application-related defects, including premature peeling, flaking or delamination attributable to improper surface preparation or application
- Final completion certificate and handover documentation

Work Schedule

- The anticipated implementation period is 15 November to 31 December 2026
- The vendor shall submit a realistic execution plan indicating:
    - Site inspection and measurement
    - Material procurement and mobilisation
    - Surface preparation
    - Coating application and curing
    - Final inspection, measurement, and handover
- Continuous execution is expected once work commences, avoiding unnecessary idle time
- The work shall be completed on or before 31 December 2026, subject to timely issuance of the work order and site accessibility
- The detailed work schedule shall be agreed with AIDMI after vendor selection

Payment Terms

- **First instalment – 50% advance:** Payable following issuance and acceptance of the formal work order, subject to applicable procurement and payment requirements
- **Second instalment – 50% upon completion:** Payable following satisfactory physical completion of the entire installation, confirmation of material compliance with the approved specifications, joint measurement and verification of the actual coated area, quality inspection, submission of completion records, photographs, warranty documents and all other required deliverables, and formal completion certification by AIDMI or its designated technical team
- The indicative 3–5°C indoor temperature reduction is an expected thermal comfort outcome and is not a condition for release of the final instalment; as installation is scheduled for November–

December 2026, any subsequent temperature performance assessment may be undertaken under appropriate and comparable climatic conditions
- Final payment will be reconciled against the actual certified installation area and the agreed unit rate, with the advance already paid adjusted against the final certified contract value
- Applicable statutory deductions and taxes shall apply

Vendor Eligibility Criteria

Vendors must:

- Have a minimum of two (2) years of experience in cool roof coating, reflective coating, or related waterproofing/application works
- Have prior experience in institutional, residential, or community infrastructure projects, preferably involving concrete roofs
- Possess valid GST registration and comply with applicable statutory requirements
- Demonstrate the capacity to mobilise materials, skilled labour, and supervision in Akola
- Be able to complete the work within the prescribed implementation period

Submission Requirements

Interested vendors shall submit the following, to enable consistent comparison on both technical compliance and overall financial cost:

1. A detailed financial quotation indicating the proposed rate per sq. ft. and the estimated total cost for 13,000 sq. ft., inclusive of materials, surface preparation, application, labour, equipment, transportation, and all other incidental expenses
2. A clear breakup of the base amount, applicable GST, and total quotation value
3. Name of the proposed coating manufacturer and product, along with the technical datasheet and relevant performance test reports supporting the stated solar reflectance, thermal emittance and SRI values
4. Coating system details: whether a primer is required and, if so, whether it is included in the quoted rate; number of coats proposed (minimum two); manufacturer-recommended coverage or consumption rate per coat (per sq. ft. or sq. m); manufacturer-recommended application thickness, where specified; total estimated coating material quantity required for 13,000 sq. ft.; and any specific exclusions from the quoted rate
5. Company profile and relevant project experience
6. Warranty details, clearly specifying the manufacturer's product warranty duration, the vendor's workmanship warranty duration, the scope of warranty coverage and exclusions, and the procedure for reporting and rectifying defects
7. Proposed work methodology, material application specifications, and execution timeline

Submission Details

- **Last date for submission:** November 20, 2026
- **Mode of submission:** Email: Rahul Sonavane at rahul.sonavane@aidmi.org or sealed envelope
- **Subject line:** *Quotation – SRI Cool Roof Installation, Sant Gadge Baba Beghar Niwara, Akola*
- **Contact person:** Rahul Sonavane, Admin Executive
- **Contact number:** +91 96647 78354
- **Email address:** rahul.sonavane@aidmi.org
- **Physical submission address (for sealed envelopes) to AIDMI, Ahmedabad:**

  All India Disaster Mitigation Institute
  411-412, Sakar-V Building,
  Behind Old Natraj Cinema,
  Near Mithakhali Underpass, Ashram Road,
  Ahmedabad – 380009, Gujarat
  Phone: 079-26582962

General Conditions

- AIDMI reserves the right to accept or reject any or all quotations, wholly or partially, without assigning reasons.
- Final quantities may vary depending on site conditions and joint measurements; payment shall be made only for the actual certified area.
- Any additional or variation work shall require prior written authorisation from AIDMI.
- Issuance of this CFQ does not constitute a commitment to award a work order.
- Quotations shall remain valid for a minimum of 30 days from the submission deadline.