

CSIR-Advanced Materials and Processes Research Institute, Bhopal

Subject: Expression of Interest for Demonstration of Fly Ash based Geopolymeric Roller Compacted Road Stretch at CSIR-AMPRI Campus Bhopal M.P.

CSIR -Advanced Materials and Processes Research Institute (AMPRI), Bhopal, under the Mission Mode project on Waste to Wealth, has developed “Upscaled **Process of Making Roller Compacted Geopolymeric Concrete for all Weather Road Applications**”. Under the above project, a Demonstration of roller-compacted Geopolymeric Concrete Road stretch of approximate dimensions 35m x 3.75m x 0.15m is to be carried out as a paving-quality concrete top layer on the existing Geopolymeric Concrete Road Stretch at CSIR-AMPRI Bhopal.

EOI is invited from interested firms/agencies possessing licensed know-how of the Process for making fly ash-based Geopolymeric Concrete for construction purposes.

- Making and laying of Fly Ash-based Geopolymeric Roller Compacted Road Stretch of approximate dimension 35m length x 3.75m width and thickness 150mm with a customised Know-How-based mixed design developed by CSIR-AMPRI Bhopal
- The scope includes sourcing and procurement of construction raw materials such as coarse aggregate & fine aggregate, Class F Fly ash from the Electrostatic Precipitator (ESP) field III/IV of a coal-based thermal power plant, designated by CSIR-AMPRI. (Preferably Satpura Thermal Power Plant, Sarni, located approximately 200km from Bhopal)
- Procurement and handling of bulk chemicals such as NaOH, Sodium Silicate, required for making fly ash-based Geopolymeric Concrete as per CSIR-AMPRI Mix Design.
- Providing sourcing and operation of construction equipment such as concrete mixer (self-loading transit mixer vehicle), static/vibrator road roller (Capacity Maximum Six tons), and tools and tackle necessary for laying, finishing roller compacted Concrete.
- The construction agency should undertake safety measures for handling bulk alkaline chemicals during the mixing and laying of Geopolymeric Concrete.
- The participating firms/agencies shall undertake construction work under the supervision of a post-graduate civil engineer having experience in handling Geopolymeric Concrete.
- The interested participating agencies will be called, and a suitable NDA will be signed to proceed further.
- This demonstration/construction activity has to be completed within 45 days of the PO/Work order.

Time line.....

Submission process and place.....