



**GOVERNMENT OF BIHAR**  
**BIHAR STATE DISASTER MANAGEMENT AUTHORITY**  
**(DISASTER MANAGEMENT DEPTT.)**

5<sup>th</sup> Floor, Sardar Patel Bhawan,  
Nehru Marg, Patna, 800022  
Ph. No.: 0612-2547232 Fax No. 0612-2532311



**अल्पकालीन निविदा आमंत्रण सूचना**

बिहार राज्य आपदा प्रबंधन प्राधिकरण द्वारा बिहार दिवस-2026 (22-24 मार्च 2026) के अवसर पर आपदा जागरूकता एवं तैयारी को बढ़ावा देने हेतु AR/VR (Augmented Reality / Virtual Reality) आधारित आपदा तैयारी प्रदर्शन, कंटेंट विकास, VR उपकरण आपूर्ति, स्थापना, संचालन एवं तकनीकी सहयोग के लिए अनुभवी एजेंसियों/OEM/अधिकृत वितरकों से दो-बिड प्रणाली (तकनीकी एवं वित्तीय) के अंतर्गत निविदाएँ आमंत्रित की जाती हैं।

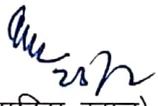
**कार्य में मुख्यतः शामिल :**

AR/VR आपदा मॉड्यूल विकास (बाढ़, भूकंप, अग्नि, वज्रपात आदि), VR डेमो सेट-अप, कार्यक्रम अवधि में संचालन, तकनीकी सहायता, प्रशिक्षण एवं प्रलेखन।

**महत्वपूर्ण तिथियाँ :**

- प्री-बिड बैठक : 02 मार्च 2026, 03:00 बजे अपराह्न
- निविदा जमा करने की अंतिम तिथि : 06 मार्च 2026, 04:00 बजे अपराह्न तक
- तकनीकी/वित्तीय निविदा खोलना : 10 मार्च 2026, 03:00 बजे अपराह्न

विस्तृत निविदा दस्तावेज, पात्रता शर्तें एवं अन्य जानकारी [www.bsdma.org](http://www.bsdma.org) से डाउनलोड की जा सकती हैं। प्राधिकरण किसी भी अथवा सभी निविदाओं को बिना कारण बताए निरस्त करने का अधिकार सुरक्षित रखता है।

  
(मो० वारिस खान)  
सचिव

बिहार राज्य आपदा प्रबंधन प्राधिकरण

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Letter/Computer No : 541561/...../Pradhi

Patna, Dated ..... 2026

**Development of AR/VR Video with Learning Management**  
**System for Disaster Preparedness Training**

**Objective**

BSDMA, as the nodal agency for disaster risk reduction in Bihar, invites bids from qualified agencies to design and develop an **immersive AR/VR training video**. This initiative aims to strengthen **community preparedness, institutional capacity, and public awareness** by simulating real-life disaster scenarios in a safe, controlled environment. The video will be used in **training programs, awareness campaigns, and educational outreach** across the state to build resilience and reduce disaster risks.

**Scope of Work**

The selected agency will:

- **Simulate Disaster Scenarios:** Create realistic AR/VR experiences of hazards relevant to Bihar, including earthquakes, floods, Lightning, and fire incidents.
- **Preparedness & Response Training:** Integrate step-by-step guidance on evacuation, first aid, safe shelter identification, and emergency communication.
- **Interactive Features:** Incorporate 360° views, hotspots for additional information, decision-making prompts, and quizzes to assess learning outcomes.
- **Multi-Device Compatibility:** Ensure seamless performance across smartphones, tablets, desktops, and VR headsets for accessibility in urban and rural settings.
- **Multi-User AR/VR Collaboration & LMS Integration:** Enable real-time multi-user participation within training modules, integrated with LMS for user tracking and analytics.
- **Revisions:** Provide at least **two rounds of revisions** based on BSDMA's feedback.
- **Localization:** Content should be adaptable for **Hindi and English**, ensuring inclusivity for diverse audiences in Bihar.
- **Content Duration:** Not more than 5 minutes per module.
- **Training Requirement Clause** -The bidder shall provide comprehensive training for all AR/VR modules supplied under this contract. The training program must include System operation, hardware setup, software usage, immersive simulation exercises, content management, and troubleshooting.
- **Documentation:** Bilingual (English and Hindi) Training manuals, user guides, and digital reference materials must be provided.

**Technical Requirements**

- **Resolution:** Minimum 4K for clarity and realism.
- **Format:** VR, desktop, mobile and WebGL.
- **Device Compatibility:** iOS, Android, and VR headsets.
- **Performance:** Optimized for low-latency playback, suitable for areas with limited internet connectivity.
- **Learning Management System:** Learning Management and Assessment Analytics System

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- The Learning Management System (LMS) will be limited to **user tracking, content access monitoring, and usage analytics**, capturing data such as user logins, module access, time spent, and completion status.
- A **real-time dashboard** will provide visibility into active users, live session participation, and **live streaming of training sessions**, along with content consumption metrics.
- The system will generate **basic reports** on user engagement and content usage at institute and state levels to support monitoring and review.
- For multi-user, the platform should include customizable pre-built avatars (50), teleportation and guided navigation routes, chat and voice communication in the modules, annotation tools, search and mini-map features, multimedia support, smooth 3D performance with spatial audio, and session monitoring with administrative dashboard.
- **VR Hardware – Minimum Technical Specifications**
  - Device Type: Standalone, all-in-one VR headset with inside-out tracking (no external PC or sensors required)
  - Processor: Qualcomm Snapdragon XR series processor (XR2 Gen-2 or higher)
  - Display & Resolution: Minimum 1832 × 1920 per eye with support for immersive 4K VR content
  - Tracking & Controllers: 6 Degrees of Freedom (6DoF) with two wireless controllers and haptic feedback
  - Memory & Storage: Minimum 8 GB RAM and 128 GB onboard storage
  - Connectivity: Wi-Fi 6 and Bluetooth 5.0 or higher
  - Compatibility: Supports interactive AR/VR applications, 360° video, and LMS platform integration
  - Battery Life: Minimum 2 hours of continuous active usage

## Timeline

- **Completion:** Within **3-4 weeks** from award date.
- **Milestones:**
  - Week 1: Scriptwriting, storyboard approval, and technical planning.
  - Week 2: Prototype development and initial animation.
  - Week 2: Integration of interactivity, testing, and first revision.
  - Week 3-4 : Final delivery, LMS training, and handover.

## Evaluation Criteria Certifications

- Only Registered Indian Manufacturers/OEM/OEM Authorized distributors/dealers can participate as bidder in this Request for Quotation (RFQ) and other distributors / dealers / suppliers etc. by whatever name called, will not be eligible.
- The Bidder must submit a valid NSIC Government Purchase Registration Certificate for Virtual Reality (VR) / Augmented Reality (AR) products.
- Proven expertise in AR/VR content creation, preferably in training, education, or disaster management domains on the similar modules fire, earthquake and floods.
- A multidisciplinary team with expertise in scriptwriting, animation, 3D modelling, AR/VR development, and instructional design. Bidders will have to submit CVs of the relevant personnel.
- Prior experience in projects with **government organizations/departments/PSUs**, will be an added advantage.

In addition, the Bidder or its OEM Authorised distributors/dealers must hold the following valid certifications, issued prior to the tender release date:

- ISO/IEC 25010:2023 – Systems and Software Quality Models
- ISO 9001:2015 – Quality Management System
- CERT-In audited and VAPT certified Learning Management System.
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## Technical & Eligibility Requirements

- Only Registered Indian Manufacturers/OEM/OEM Authorised distributors/dealers can participate as bidder in this Request for Quotation (RFQ) and other distributors / dealers / suppliers etc. by whatever name called, will not be eligible.
- The Bidder must be at least Ten Years old and **experience of deploying AR/VR solutions for government organizations/departments/PSUs, for a minimum of six (6) years** as on the date of bid submission.
- The bidder or its OEM should have executed at least **10 work orders** from Government Departments/Government Organizations/PSUs/NSDC etc., for the supply of VR equipment/products.
- The bidder must submit PAN Card, GST Registration Certificate (GSTIN), and Date of Incorporation / Registration as documentary proof.
- The Bidder should have an average turnover of Rs. 2 crores, for the last three financial years (FY 2022-23, 2023-24, 2024-25).
- The net worth of the bidder for the last three financial years (FY 2022–23, 2023–24, 2024–25) must be positive, supported by a CA-certified Net Worth Certificate with UDIN.
- The bidder must not have been declared insolvent or bankrupt, nor be under liquidation or insolvency proceedings, as on the last date of bid submission.
- The bidder must not be blacklisted by the Central Government, any State Government, PSU, or Government Corporation in India as on the bid submission date.
- The bidder shall submit GST returns (GSTR-3B / GSTR-1) and tax payment challans for the last three months as proof of statutory compliance.
- Earnest Money Deposit (EMD): An EMD of amount Rs 1,00,000/- (Rupees One Lacs only) to be submitted.
- Bidding in Consortium Not allowed.
- Proposals must be submitted using a two-bid system, with the Technical Bid (Part-I) containing company profiles, experience, qualifications, and methodology, and the Financial Bid (Part-II) containing detailed pricing These must be submitted separately—either in sealed envelopes or as separate files.

### Financial Bid

- The proposed pricing should be inclusive of all taxes.
- BOQ should be in the format as follows:

Sl. No.	Item Category	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
1	VR Hardware	Supply of standalone VR hardware including headset, controllers, accessories, and compatible devices as per technical specifications	Nos.	1	To be quoted	To be quoted
2	AR/VR Content Module	Design and development of interactive AR/VR disaster preparedness module (4K, multilingual, interactive)	Per Module	4	To be quoted	To be quoted

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3	Platform (LMS & Dashboard)	Learning platform setup including user tracking, live streaming dashboard, content access analytics, deployment, and configuration	Lumpsum	1	To be quoted	To be quoted
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### Terms & Conditions

- **Warranty:** 1-year warranty covering technical issues, bugs, or glitches.
- **Maintenance & Support:** 1-year support including minor updates and troubleshooting.
- **Compliance:** Adherence to national and state-level regulations, including IT security and accessibility standards.
- **Ownership:** Intellectual property rights of the video will remain with BSDMA.
- **Hosting & Infrastructure:** The complete solution, including multi-user VR modules and the platform, shall be deployed on the bidder's secure cloud environment. The bidder shall bear all costs related to hosting, infrastructure, security compliance, maintenance, and uptime for the duration of the contract.

### Performance Security:

- The successful bidder shall furnish an unconditional Performance Bank Guarantee (PBG) equivalent to [5% of the contract value] within 10 days from the date of issue of the Letter of Award (LoA).
- The PBG shall be issued by a scheduled commercial bank in favour of [Secretary, Bihar State Disaster Management Authority], valid for the 6 months' period.

### Important Dates:

(a)	Pre-Bid Meeting	02 March 2026, 03:00 PM
(b)	Last Date for Submission of Tender	06 March 2026, up to 04:00 PM
(c)	Opening of Technical/Financial Bids	10 March 2026, 03:00 PM

The Authority reserves the right to cancel any or all tenders without assigning any reason.

  
 (Md. Waris Khan)  
 Secretary

Bihar State Disaster Management Authority, Patna