

JAVED BARI, Ph.D. (USA), P.E. (USA), M.ASCE, FIEB

Infrastructure, Transport & Development Specialist

Licensed Professional Engineer (USA & Bangladesh)

Professor | Former Dean & Department Chair

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1. PROFESSIONAL SUMMARY

- Internationally trained Civil and Transportation Engineer with over **32 years of professional experience** in infrastructure development, transport systems, pavement engineering, institutional strengthening, and large-scale development project evaluation across the United States and Bangladesh.
 - Directly contracted by the **World Bank Bangladesh Office** as Short-Term Consultant (STC) for transport sector monitoring and institutional reform initiatives. Currently serving as Lead Adviser for an **Asian Development Bank Results-Based Lending (RBL)** performance audit program exceeding **USD 300 million**.
 - Leading teams for In-depth and Impact Evaluation of large-scale national development projects – contracted by IMED, **Ministry of Planning**, Government of Bangladesh.
 - Lead Evaluator of **USAID BAIDP** Program.
 - Former Dean overseeing **BDT 1.5 billion annual budget**, 110 faculty members, and 7,000 students, with demonstrated expertise in governance, accreditation (Washington Accord-aligned OBE), and strategic institutional planning.
 - Globally recognized contributor to the development and implementation of the **AASHTO Mechanistic-Empirical Pavement Design Guide (MEPDG)**, with research embedded in international pavement design practice.
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2. AREAS OF EXPERTISE

Infrastructure & Transport Systems

- Pavement design and analysis – both AASHTO 1993 and MEPDG
- Highway geometric design and standards
- HDM-4 based design and economic appraisal of highways
- Road safety audit, iRAP-based assessment and expert-assessment
- Traffic engineering & crash data analytics.

Development Program Evaluation

- In-depth and Impact Evaluation of development projects (Planning Commission framework)
- Performance audit and DLI verification under RBL / PforR / IPF models of WB and ADB
- Socio-economic and environmental impact assessment
- Institutional capacity and governance assessment.

Governance & Institutional Strengthening

- Strategic planning and reform frameworks
- Accreditation (OBE / Washington Accord alignment)
- Public sector monitoring & compliance systems

- Design and Training manual development and capacity-building design
 - Results-based implementation oversight.
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3. PROFESSIONAL LICENSURE

Licensed Professional Civil Engineer (P.E.), USA and Bangladesh

4. EDUCATION

Ph.D., Civil & Environmental Engineering, Arizona State University, USA | 2005

M.S., Civil & Environmental Engineering, Arizona State University, USA | 2001

B.Sc., Civil Engineering (First Class), Bangladesh University of Engineering & Technology (BUET) | 1993

5. MULTILATERAL DEVELOPMENT EXPERIENCE

Short-Term Consultant (Direct Contract)

World Bank – Bangladesh Office | September 2014–June 2018

Second Rural Transport Improvement Project (RTIP-II), USD 417 million

- Supported monitoring and implementation oversight across 26 districts.
 - Led development of road safety and road design training manuals for LGED.
 - Contributed to institutional strengthening and capacity development frameworks.
 - Assisted in formulation of PforR-type SupRB Bridge Maintenance Program.
 - Subsequently appointed Team Leader for Final Performance Audit of Additional Financing (USD 170 million).
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Team Leader – Final Evaluation

World Bank – Bangladesh Office | July 2022–June 2023

RTIP-II Additional Financing, USD 170 million

- Led comprehensive final evaluation of infrastructure and institutional components.
 - Assessed physical outputs, governance performance, socio-economic impact, and environmental outcomes.
 - Directed preparation and submission of the official World Bank evaluation report.
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Lead Adviser – Performance Audit Consultancy

Asian Development Bank (RBL Program, Ministry of Finance) | September 2025–June 2026

Skills for Industry Competitiveness & Innovation Program (SICIP), USD 300+ million

- Evaluate DLI compliance and reform implementation progress.
 - Assess governance systems, financial management practices, and sustainability mechanisms.
 - Review cross-ministerial coordination and institutional alignment.
 - Provide policy recommendations consistent with international best practices.
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Lead Civil Engineer – Final Evaluation

USAID Program implemented by LGED | March 2019–December 2019

Bangladesh Agricultural Infrastructure Development Program (USD 50 million)

- Led final evaluation of rural infrastructure investments.

- Assessed infrastructure delivery performance and socio-economic-environmental outcomes.
 - Contributed to preparation and publication of official USAID evaluation report.
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6. GOVERNMENT INFRASTRUCTURE EVALUATION LEADERSHIP

Team Leader – National Infrastructure Project Evaluations

Implementation Monitoring & Evaluation Division (IMED) | January 2018–Present

Ministry of Planning, Government of Bangladesh

Led high-value evaluations including:

- Nabinagar–Ashuganj Road (BDT 6,486 million)
- Kishoreganj–Karimganj–Chamraghat Highway (BDT 7,313 million)
- Joypurhat–Hili Regional Highway (BDT 2,263 million)
- Keraniganj–Hasara Zilla Highway Upgrade (BDT 4,487 million)
- Ishwardi Export Processing Zone (BDT 830 million)

Responsibilities

- Technical design review and cost validation
 - Construction quality and contract compliance assessment
 - Economic viability and impact analysis
 - Environmental and road safety review
 - Socio-economic-environmental impact evaluation
 - Policy recommendations for future infrastructure programming
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Team Leader – National Infrastructure Feasibility Study

Election Commission of Bangladesh | 2024

- Led feasibility study for construction of 66 server stations.
 - Conducted engineering, financial, and institutional capacity assessments.
 - Proposed phased implementation roadmap with risk mitigation framework.
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7. INTERNATIONAL TECHNICAL EXPERIENCE (USA)

Senior Transportation Engineer (Team Leader)

Arizona Department of Transportation | May 2005–December 2010

- Led pavement and road safety initiatives across five counties.
 - Championed implementation of AASHTO MEPDG in Arizona.
 - Served as technical advisor for state research projects exceeding USD 1 million.
 - Contributed to calibration and validation of MEPDG models under Arizona climatic and traffic conditions.
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Faculty (Adjunct)

Department of Civil, Environmental and Sustainable Engineering

Arizona State University (ASU), Tempe, Arizona, USA | Since 2006

- Delivered Civil Engineering courses and managed the transportation engineering lab, contributing to the academic and practical development of students.
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Senior Research Specialist

Arizona State University | January 2001–May 2005

- Key researcher in NCHRP 9-19 national project supporting MEPDG development.
- Co-developed AASHTO TP 62-03 dynamic modulus testing protocol.
- Developed predictive models adopted in pavement design practice.

8. ACADEMIC LEADERSHIP EXPERIENCE

Dean, School of Engineering & Physical Sciences
North South University | March 2019 – March 2024

Chair, Department of Civil & Environmental Engineering
North South University | March 2015 – June 2017

9. ACADEMIC EXPERIENCE

Professor, Department of Civil & Environmental Engineering
North South University | September 2013 – Present

Professor, Department of Civil Engineering & **Director**, South Asian Disaster Management Center
IUBAT–International University of Business Agriculture and Technology | January 2011–August 2013

10. SELECTED TECHNICAL PUBLICATIONS (40+)

- Bari et al. (2018–2026) – Road safety, infrastructure evaluation, transport management, and sustainable roads research presented at international conferences (e.g., ASCE ICTD, IRF).
- Bari et al. (2007, 2026) – Predictive Models for MEPDG and innovative road designs at Transportation Research Record (TRR), USA.
- Bari and Haider et al. (2011) – Characterization of Asphalt Binders, ASCE ICTD, USA.
- Bari & Witczak (2006) – Revised Witczak E* Model, Journal of AAPT, USA.
- Bari & Witczak (2005) – Lime Modification & Dynamic Modulus, Transportation Research Record (TRR), Washington, DC, USA.
- World Bank RTIP-II AF Final Evaluation Report (2022).
- USAID BAIDP Final Evaluation Report (2019).

11. SELECTED TRAINING & CERTIFICATIONS

- Outcome-Based Education (OBE) & Accreditation: BAETE (Board of Accreditation for Engineering and Technical Education), Bangladesh
 - Strategic Planning & Operational Management: USA
 - Digital Learning & Faculty Evaluation Systems: Bangladesh
 - Road Safety & Environmental Impact Assessment (EIA): World Bank
 - Pavement Preservation & Asphalt Emulsions: USA.
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12. TECHNICAL SOFTWARE & ANALYTICAL TOOLS

Experienced with industry-standard civil engineering, statistical, and design software. Highly proficient in using the following computer applications:

- Project Appraisal: HDM-4.
 - Star Rating for Road Safety using VIDA software.
 - Accident data analysis: MAAP software.
 - Project Management: Microsoft Project, Primavera, Suretrack
 - Engineering Estimates: HeavyBid Express.
 - Pavement Design and Analysis: AASHTOWare (MEPDG Software).
 - Highway Geometric Design: InRoads.
 - Statistical Analysis: Statistica, Matlab, Minitab and Design Expert.
 - Programming: FORTRAN and Visual Basic.
 - MS Office: MS Word, PowerPoint, Access, Project and Excel.
 - CAD: MicroStation and AutoCAD.
 - GIS: ArcGIS Pro.
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13. REFERENCES

(More available upon request).

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