



Malaviya National Institute of Technology, Jaipur

JLN Marg, Jaipur, Rajasthan - 302017

Prof. Ashok Kumar Vyas

Designation : Professor

Qualifications : Ph.D.(Civil Engg.) from University of Rajasthan
M.E.(Building Sc & Technology) B.Tech.(Civil Engg)

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Research Interests

Building Technology, Use of waste in construction sector.

Brief Research Profile

Working on utilization of industrial wastes as construction material. Different types of industrial slag have been tried in concrete and asphalt mixes. Recommendations for optimum quantity were given in different types of mixes.

Journal Publication Details:

Anjali Chawla, K. I. Syed Ahmed Kabeer, Ashok Kumar Vyas , "Evaluation of strength and durability of lean concrete mixes containing marble waste as fine aggregate" , **European Journal of Environmental and Civil Engineering** Volume :00 / 00-00 / 2018

Lalit Kumar Gupta, Ashok Kumar Vyas , "Impact on mechanical properties of cement sand mortar containing waste granite powder" , **Construction and Building Materials** Volume :191 / 155-164 / 2018 ISBN: 0950-0618

K.I. Syed Ahmed Kabeer, Ashok Kumar Vyas , "Utilization of marble powder as fine aggregate in mortar mixes" , **Construction and Building Materials** Volume :165 / 321-332 / 2017 ISBN: 0950-0618

Rajendra Kumar Khyaliya, K.I. Syed Ahmed Kabeer, Ashok Kumar Vyas , "Evaluation of strength and durability of lean mortar mixes containing marble waste" , **Construction and Building Materials** Volume :147 / 598-607 / 2017

Sudarshan Dattatraya Kore · A. K. Vyas , " Performance Evaluation of Concrete using Marble Mining Waste" , **SSP- Journal of Civil Engineering** Volume :2 / 53-66 / 2016

Sudarshan D. Kore and A.K. Vyas , "Particle Packing Density Approach for Design of Concrete Mixes Using Marble Waste" , **Journal of Civil Engineering and Urbanism** Volume :6 / 78-83 / 2016

S.D. Kore and A.K. Vyas , "Durability of Concrete using Marble Mining Waste" , **Journal of Building Materials and Structures** Volume :3 / 55-67 / 2016

Sudarshan D. Kore and A.K. Vyas , "Impact of Marble Waste as Coarse Aggregate on Properties of Lean Cement Concrete" , **Case Studies in Construction Materials** Volume :4 / 85-92 / 2016

Sudarshan D Kore · A K Vyas , " Cost Effective Design of Sustainable Concrete Using Marble Waste as Coarse Aggregate" , **Journal of Materials & Engineering Structures** Volume :3 / 167-180 / 2016

S.B. Patil, A.K. Vyas, A.B. Gupta , ""Utilization of an Industrial Waste in Cement Concrete Mixes"" , **The Journal of Solid Waste Technology and Management** Volume : 40 / 79-85 / 2014

S. B. Patil S B, A. K. Vyas, A B Gupta , " "Environmental Assessment of Bituminous Mixes Containing Imperial Smelting Furnace (ISF) Slag", " , " , **Journal of Solid Waste Technology & Management, USA** Volume :36 / 220-226 / 2010

S.M.S.Shashidhara, A.K.Vyas , "Properties of cement concrete with Imperial smelting furnace slag as replacement of sand " , **Indian Concrete Journal** Volume : / 41-49 / 2010

S.M.S.Shashidhara, A.K.Vyas , "Porosity related durability of cement concrete with ISF slag as fine aggregate, " , **International Journal for Applied Engineering Research (IJAER)**, Volume :5 (10) / 1675-168 / 2010

S. B. Patil, A. K Vyas, A B Gupta, A N Arora, Pawan Kalla , "Influence of Imperial Smelting Furnace Slag Aggregate on Properties of Bituminous Mixes " , **Indian Highways** Volume :37(12) / 33-39 / 2009

Vyas A.K. and Raisinghani M , ""Optimum spacing of Columns based upon Cost of Construction in Laboratory Buildings." " , **Journal of Institution of Engineers (India)** Volume :88 / 3-8 / 2007

Vyas A.K. and Raisinghani M. , ""Rational Design of Lecture Halls and Drawing Halls for Technical Institutions" " , **Journal of Technical Education** Volume :30 / / 2007

Vyas A.K. and Raisinghani M , ""Cost Analysis of Faculty Block of Institutional Buildings" Journal of Institution of Engineers (India) " , **Institution of Engineers Architectural Engg Division** Volume :87 / 6-12 / 2006

A.K. Vyas, S. Vohra, A.B. Gupta , ""Development of cost functions for circular tanks for sewage treatment plants", " , **Indian journal of Environmental Protection** Volume :25(1) / 70-75 / 2005

A.K. Vyas, Sanjeev Vohra and A.B. Gupta , ". "Development of cost functions of equipment for sewage treatment plants"" , **Nature, Environment and Pollution Technology** Volume :4(4) / 491-494 / 2005

Vyas A.K. and Raisinghani M. , ""Optimum Size of Tutorial Rooms for Technical Institutions in India" " , **Journal of Institution of Engineers (India)** Volume :86 / 20-24 / 2005

Vyas A.K. and Raisinghani M , ""Determination of optimum spacing of columns and Material consumption in library buildings" " , **Journal of Institution of Engineers (India)** Volume :86 / 7-17 / 2005

R. Choudhary, Patanayak S.K., Gupta A.B., Vyas A.K., Swami B.L , " "Application and modification of FHWA model for noise prediction at congested commercial location of Jaipur city" " , **Indian Journal of Environmental Protection** Volume :23(8) / 907-912 / 2003

Conference Publication Details:

Yashvi Singh, A.K. Vyas, K.I. Syed Ahmed Kabeer , "Compressive Strength Evaluation of Mortars Containing ISF Slag and Marble Powder" **International Conference on Recent Trends in Engineering and Material Sciences (ICEMS2016)** by ELSEVIER at Jaipur / 9635-9639 / 2016

S.D. Kore, A.K. Vyas , "Influence of Particle Packing Density Approach on Strength and Durability Properties of Concrete Containing Marble Waste" **International Conference on Trends and Recent Advances in Civil Engineering – TRACE 2016** by AMITY UNIVERSITY at Noida, Uttar Pradesh / 376-385 / 2016

S.D. Kore, A.K. Vyas , "Packing Density Approach for Production of Cost Effective and Durable Concrete" **International Conference on Advances in Concrete Technology Materials & Construction Practices (CTMC-2016)** by Goa Engineering College at GOA / 71-77 / 2016

S.D. Kore, A.K. Vyas , "Behavior of Concrete Using Marble Waste as Coarse Aggregate" **UKIERI United Kingdom India Engineering Research Initiative: Concrete Research Driving Profit and Sustainability** by NIT Jalandhar at NIT Jalandhar / 78-87 / 2015

Sharma, Dinesh Kumar, Swami, B.L. and Vyas, A.K. , "Performance Study of Bituminous Concrete Containing Copper Slag" **5th Asia and Pacific Young Researchers and Graduates Symposium (YRGS-2013)** by MNIT JAIPUR at Jaipur / 340-348 / 2013

Sharma, Dinesh Kumar, Swami, B.L. and Vyas, A.K. , "Study on Design of Hot Mix Asphalt Using Waste Copper Slag" **5th Asia and Pacific Young Researchers and Graduates Symposium (YRGS-2013)** by MNIT JAIPUR at Jaipur / 248-255 / 2013

S.B.Patil , A.K.Vyas, , "An Overview of Solid Waste Utilization Technologies" " **Advances in Structural Engg and Concrete Technology** by IEI at Jaipur / 28-36 / 2007

S.B. Patil, A.K.Vyas, A. B. Gupta , "Suitability of Waste Slags From Industries as Construction Material: A Case Study of Imperial Smelting Furnace (ISF) Slag " **Int. Conf on Solid Waste Management** by Widener University USA at Philadelphia / 45-52 / 2007

S.B. Patil, A.K.Vyas, , "Application of Solidification- Stabilization Technique for Metal Bearing Solid and Hazardous Wastes From Industries- a Case Study" **National Conference on Environmental Pollution & Its Control** by Rajasthan Technical University Kota at Kota / 15-21 / 2006

A K Vyas , "Insulating Materials for Fire Protection of Steel structures." " **National Workshop on Advances in Cement, Slag and Pozzolanic Materials in India**, by Venkateshwar University Tirupati at Tirupati / 185-192 / 1998

Vyas A.K. , " Alternate Building Units in Masonry Construction" " **Workshop on Recent Advances in Masonry Construction** by IEI at Roorkee / 93-104 / 1998

Seminar/Symposia/Workshop/Conference/STC Organized:

Workshop, National Workshop on **Repair and Rehabilitation of Structures** at MNIT, Jaipur, INDIA from 05-10-2012 to 06-10-2012.

workshop, National Workshop on **Quality Assurance in Construction Projects** at MNIT, Jaipur, INDIA from 05-11-2007 to 06-11-2007.

Professional Affiliation:

lie member of Indian Society for Technical Education.

Research Supervised:

Dinesh Kumar Sharma on **Comprehensive Study For Utilization Of Copper Slag In Hot Bituminous Mixes** Year - 2014 (Completed)

S B Patil on **Application of Solidification /Stabilization technique using ISF slag as a construction material** Year - 2010 (Completed)

SMS Shashidhara on **A study on the characterization and use of ISF slag as fine aggregate in cement concrete** Year - 2011 (Completed)

Sudarshan Dattatraya Kore on **Behaviour of Cement Concrete Containing Marble Waste as Coarse Aggregate in Aggressive Environment** Year - 2018 (Completed)

Syed Ahmed Kabeer K.I. on **A Study on Strength and Durability of Cement Mortars Containing Marble Powder** Year - 2019 (Completed)

Lalit Kumar Gupta on **Granite Slurry as Fine Aggregate in Cement Mortar** Year - 0 (Ongoing)

 **Administrative Responsibilites:**

"Dean P&D" in MNIT Jaipur from 01-06-2017 to Till Date

"Head of the Department" in MNIT Jaipur from 04-01-2011 to 12-06-2013