

Curriculum Vitae of

Er. VIKAS S. PATIL



Principle Consultant –Savi Designers & Consultants
&
Managing Director–Savi Infrastructures& Properties Pvt. Ltd.

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DATE OF BIRTH: 18th November 1970

PLACE OF BIRTH: Amalner, Dist. Jalgaon, Maharashtra

PROFESSIONAL ASSOCIATIONS: Fellow of Indian Geotechnical Society
Life Member of Indian Society of Technical Education
Member of Builders Associations of India
Academic Expert of DPPC of PG-Geotechnical Engineering,
Government College of Engineering,

EDUCATIONAL QUALIFICATIONS:

Master of Engineering Civil, Geotechnical Engineering, Government College of Engineering
Pune, University of Pune, India, 2000

Bachelor of Engineering Civil Engineering, Maharashtra Institute of Technology, Pune,
University of Pune, India, 1991

EXTRA CURRICULAR ACTIVITIES:

Served National Cadet Corps (NCC) – 1985-1987

Registered member of Maharashtra State Bharat Scouts & Guides

ABOUT MYSELF: Er Vikas S. Patil is a first generation entrepreneur, is post graduate in
civil engineering with specialization in geotechnical engineering.

Alumni of Government College of Engineering Pune

Initially have worked as a faculty in Government College of Engineering Pune for a decade. During short stint with academics have focused on Industry - Institute Interaction and introduced practical needs of society in the academics at the institute and university level. Later on for dissemination of engineering knowledge to the society, embarked on the path of entrepreneur. Have introduced a new GraviLoft Retaining Wall Technology & New Technology in the design of Culverts which has benefitted the society, public at large, nation and the nature. These technologies have brought down the cost of the

construction, introduced higher stability and optimised the use of natural resources in construction.

MAJOR ACHIEVEMENTS:

SOCIAL RECOGNITION: **Member, Board of Governance, College of Engineering, Pune**
(An autonomous institute of Government of Maharashtra)
(Government Nomination)

Chairman, Pune Chapter, Indian Geotechnical Society

ACADEMICS: Recognised Post Graduate Teacher in Civil Engineering by University of Pune for the period 2001 to 2006 and Have Guided Post Graduate students.

PROFESSIONAL GOVERNMENT SECTOR: For **National Highway Authority of India (NHAI)**, have worked as a consultant for Golden Quadrilateral Project (Part of NH-4)

For **C.G.P.W.D.NH. & BRIDGE, RAIPUR (CHHATTISGARH)**, have worked as a consultant for ROB projects.

For **Maharashtra State Road Development Corporation (MSRDC)**, have worked as a consultant for infrastructural work.

For **Maharashtra Public Works Department (PWD)**, have worked as a consultant for ROB & infrastructural works.

For **Maharashtra Irrigation Department**, have worked as a consultant for design of wing walls/ retaining walls.

For **Maharashtra Irrigation Department**, have worked as a consultant for design of wing walls/ retaining walls.

For **Maharashtra Industrial Development Corporation (MIDC)**, have worked as a consultant for **16 Km long** retaining wall constructed for their Flouriculture Park, Talegaon, Pune

.... AND SO ON (LIST INCOMPLETE)

CORPORATE SECTOR: For **Lodha Group, Mumbai**, have executed design build Gravi-loft retaining wall for **about 8.5 Km long** at Dombivali, Dahisar, Mumbai

For **Tata Housing Development Company Ltd.**, have executed design build Gravi-loft retaining wall for **about 2.5 Km long** at Lonawala, Pune

For **Peninsula Land Ltd.**, have executed design build Gravi-loft retaining wall at Nashik, Mumbai, Lonawala & Pune for **about 4.5 Km long**.

For **Ganesh Bhintade & Associates.**, have executed design build Gravi-loft retaining wall for **about 15 m high** at Pune

.... AND SO ON (LIST INCOMPLETE)

PROFESSIONAL APPOINTMENTS:

2010 – Present Principle Consultant –Savi Designers & Consultants
Managing Director – Savi Infrastructure & Properties Pvt. Ltd.

2003 – 2010 Globe Infrastructure (Proprietor, Civil Consultancy & Construction Firm) & Inventa International (Partnership design firm)

Feb. 1992- Nov. 2003 Faculty, Department of Civil Engineering, College of Engineering Pune, University of Pune, India

UNIVERSITY: Recognised Post Graduate Teacher in Civil Engineering by University of Pune for the period 2001 to 2006

GUIDANCE: Guided Miss Vinita S. Kolhe for her Master of Engineering, Department of Civil Engineering, Govt. College of Engg., Pune, University of Pune, 2000 to 2002 (M. E. Copmpleted)

Guided 04 students for their Master of Engineering, Department of Civil Engineering, Govt. College of Engg., Pune, University of Pune, 2000 to 2002 (Seminar work)

PAPER PRESENTATIONS: Paper presented in National Conference on Smarter Cities – India 2015: Smarter Solutions For a Better Tomorrow (SCI – 2015) 8-9 June 2015, Organised by Sinhgad College of Engineering, Pune

EXTERNAL EXAMINER: Referee for M. Tech. (Civil Geotechnical Engg.) dissertation (Gaurav Singh Chauhan), Govt. College of Engg., Pune

Referee for M. Tech. (Civil Geotechnical Engg.) dissertation (Renuka S. Vaishampayan), Govt. College of Engg., Pune

PROFESSIONAL SEMINARS/CONFERENCES

SHORT TERM COURSES: Short term course on “Theoretical and practical aspects of Offshore Structures” at IIT Mumbai

Short term course on “Modern Surveying Techniques” at Government College of Engineering, Pune

Short term course on “Materials For The New Millenium” at Government College of Engineering, Pune

Workshop on “Solar Energy Engineering” at Government College of Engineering, Pune

National Conference on “ Smarter Cities – India 2015: Smarter Solutions for a better tomorrow (SCI – 2015)

RESEARCH & INVENTION:

RESEARCH AREA:

Design of Reinforced Unpaved Roads

In developing country like India, To optimise the initial expenditure on village unpaved roads, A Novel Approach for the design of Reinforced Unpaved Roads is developed which optimises the cost by about 38% if compared with conventional methods of design.

Earth Retaining Structures

In the infrastructural development of cities, space constraints is of high importance, wherein construction of retaining structures is an inevitable construction activity which is common in various structures such as roads, canals, culverts, bridges, slope of nallas, river training work, grade separators etc.

Our research and thorough study into the field with extensive market survey yielded in the development of Georet & GraviLoft Technology, which is the innovative discipline that deals with the design and construction of earth retaining structure.

Design of Culverts

In the infrastructural developments, we often come across crossing of Water steams, Nallas, Canals & River training works etc. wherein initial cost incurred in these structures do not generate direct revenue to government but its construction is necessary. To optimise the cost of these structures, we developed a new technology for the design of these structures.

INVENTION:

Georet & GraviLoft Technology

We have co-invented, developed and perfected Georet & GraviLoft Technology which is the innovative discipline which deals with design and construction of earth retaining structure keeping in mind the concept of construction friendly methodologies. The execution is the safest, time saving and cost effective in terms its value as well as saving in natural resources.

Evolution of New Technology In The Design of Culverts

After thorough analysis of conventional design methods, pressure relief concept is introduced in the design of abutments of culverts who shares 60% of overall cost of culverts.

New technology co-invented, developed and perfected in the design of these structures saves @ 20% overall cost if compared with the conventional design concepts

AWARDS AND HONOURS:

SCHOLARSHIP HOLDER:

Secondary School Scholarship Examination, Government Board of Examination, Maharashtra State, Pune – 411 001

CO-INVENTOR &

CO-PATENT HOLDER:

Co-Patent holder of the GraviLoft Technology under Intellectual Property Rights (Patent Number 210506) of Government of India. It is an innovative method of designing and constructing a retaining wall.

PROFESSIONAL ACHIEVEMENTS:

GOVERNMENT/ SEMI GOVERNMENT/ GOVERNMENT UNDERTAKINGS:

CONSULTANT TO NATIONAL HIGHWAY AUTHORITY OF INDIA

In Golden Quadrilateral Project of Government of India, for the portion "Four Laning of Satara-Kolhapur upto M. S. Border Section of NH-4, Package-V (Km. 697.000 to Km. 725.000) Part of Package, (Km. 698.510 to Km. 699.780) - Umbraj. Proposal of GraviLoft Construction for Umbraj Section", construction of GraviLoft retaining wall

Retaining walls constructed on either side of National Highway No.4 at Umbraj where highway is elevated for through traffic since it is crossing Umbraj town. For either side of around 750 m portion of elevated highway, GraviLoft retaining wall height varying from 2 m to 9.5 m are constructed.

CONSULTANT TO C.G.P.W.D.NH. & BRIDGE, RAIPUR (CHHATTISGARH)

Construction of ROB on Hawrah - Mumbai Rail line in km 585/8 at Raigarh (Chhattisgarh)

GraviLoft retaining wall constructed all along either side of approaches of ROB. Approx. length of approaches 750 m and wall height ranges from 2.6 m to 8.8 m

CONSULTANT TO MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION (MIDC)

Talegaon Industrial Area ...Construction of approach road from NH - 4 to Industrial Area ... GraviLoft retaining walls all along main roads and service roads.

GraviLoft retaining wall constructed all along either side of approach road from National Highway No.4 to Talegaon Industrial Area for Main roads and Service roads. Approximately 12.600 Km length of GraviLoft retaining wall - height varying from 2 m to 7.0 m are constructed

CONSULTANT TO MAHARASHTRA PUBLIC WORKS DEPARTMENT (PWD)

Construction of ROB at Km. 58/900 on Solapur - Aurangabad - Dhule - Shahada - Dhadgaon Road (M.S.H. -1) near Dondaicha, Tal. Shindkheda, Dist. Dhule

GraviLoft retaining wall constructed all along either side of approaches of ROB. Approx. length of approaches 600 m and wall height ranges from 2.0 m to 9.0 m

CONSULTANT TO MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION (MSRDC)

Construction of GraviLoft retaining wall for widening of ROB near Wadia College, Pune

Retaining walls constructed in the middle portion of widening of ROB and its approaches where bearing capacity of substrata was critical parameter in the design and economical evaluation.

For either side of around 550 m portion of widening, Gravi-loft retaining wall height varying from 2 m to 4 m are constructed

CONSULTANT TO C.G.P.W.D.NH. & BRIDGE, RAIPUR (CHHATTISGARH)

Construction of ROB at (Except Railway Portion) Bhatapara, in km 763/17-19 on Mumbai-Hawrah - Rail line(Chhattisgarh)

Gravi-loft retaining wall constructed all along on either side of approaches of ROB.Approx. length of approaches 580 m and wall height ranges from 1.6 m to 8.8 m

CONSULTANT TO MAHARASHTRA STATE IRRIGATION DEPARTMENT

Construction of Gravi-loft retaining wall in Tail & Approach Channel of Shil, Minor Irrigation Tank, Tal. & Dist. Ratnagiri

Gravi-loft retaining wall constructed for Tail & Approach channel of Shil, Minor Irrigation Tank, Ratnagiri. Approximately Gravi-loft retaining wall height varying from 4.1 to 8.50 m are constructed

CONSULTANT TO MAHARASHTRA PUBLIC WORKS DEPARTMENT (PWD)

Construction of Gravi-loft retaining wall at Maharashtra Judicial Academy and Training Center at Uttan, Dist. Thane

Gravi-loft retaining wall constructed for protecting Bunglow due to topographical condition.Approx. length of wall is about 120 m & Height of retention about 12.50 m

CONSULTANT TO PUNE MUNICIPAL CORPORATION (PMC) (ROAD DEPARTMENT)

Construction of retaining wall for the approaches to Kalyaninagar - Koregaon new bridge (Either side)

Gravi-loft retaining wall constructed all along on either side of approaches of Mula-Mutha River Bridge.Approximately Gravi-loft retaining wall height varying from 4.0 to 6.0 m and about 210 m long is constructed

CONSULTANT TO PUNE MUNICIPAL CORPORATION (PMC) (DRAINAGE DEPARTMENT)

Construction of retaining wall near Raosaheb Patwardhan Vidyalaya, Dandekar Pool, Pune

Gravi-loft retaining wall constructed all along Aambil Odha constructed adjacent to slum for protection.Approximately Gravi-loft retaining wall height varying from 5.0 to 6.0 m and about 450 m long is constructed

CONSULTANT TO PIMPRI CHINCHAWAD NEW TOWNSHIP DEVELOPMENT AUTHORITY (PCNTDA)

Nalla training work at Chinchwad Polytechnic in Sector No. - 26.

Gravi-loft retaining wall constructed all along Nalla on either side of it for Nalla training work.

Approximately Gravi-loft retaining wall height varying from 2.0 to 4.0 m and about 450 m long on either side of Nalla is constructed

.... AND SO ON (LIST INCOMPLETE)

CORPORATES/ PRIVATE ORGANISATIONS:

CONSULTANT TO TATA HOUSING DEVELOPMENT COMPANY LTD.

Design & Construction of Gravi-loft retaining wall for Villa Project at Prive, Lonawala, Pune

Gravi-loft retaining wall height varying from 2 m to 10 m and about 2.5 Km long is constructed

CONSULTANT TO LODHA GROUP.

Design & Construction of Gravi-loft retaining wall for their PALAVA city, CASA RIO Dombivali & Dahisar Projects, Mumbai

Gravi-loft retaining wall height varying from 2 m to 8 m and about 8.5 Km long is constructed

CONSULTANT TO PENINSULA LAND LTD.

Design & Construction of Gravi-loft retaining wall for their Nashik, Mumbai, Lonawala & Pune Project.

Gravi-loft retaining wall height varying from 2 m to 10 m and about 4.5 Km long is constructed

CONSULTANT TO KALPATARU GROUP OF COMPANIES.

Design & Construction of Gravi-loft retaining wall for their Lonawala Project.

Gravi-loft retaining wall height varying from 4 m to 6 m and about 150 m long is constructed

CONSULTANT TO SMART VALUE HOMES LTD.

Design & Construction of Gravi-loft retaining wall for Shubh Griha, Vasind Project, Thane

Gravi-loft retaining wall height varying from 4 m to 10 m and about 450 m long is constructed

CONSULTANT TO DLF – AKRUTI INFO TECH PARK, HINJEWADI - PUNE.

Design & Construction of Gravi-loft retaining wall for their Hinjewadi Project, Pune

Gravi-loft retaining wall height varying from 3 m to 7 m and about 500 m long is constructed

CONSULTANT TO MAHINDRA VEHICLE MANUFACTURERS LTD., PUNE

Design & Construction of Gravi-loft retaining wall for their Chakan Project, Pune

Gravi-loft retaining wall height varying from 3 m to 7 m and about 250 m long is constructed

.... AND SO ON (LIST INCOMPLETE)