

# CURRICULUM VITAE

**Sasanka Borah, Ph.D**

Assistant Professor  
Civil Engineering Department  
Assam Engineering College



## Personal data

Name : Sasanka Borah  
Born : November 6, 1979 in North Lakhimpur, Assam , India  
Nationality : Indian  
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## Education

2018 PhD , Gauhati University, Assam, India  
2006 Master of Engineering ( ME), Gauhati University, Assam, India  
2001 Bachelor of Engineering (Civil Engineering), Assam Engineering College, Gauhati University.  
1997 Higher Secondary (12<sup>th</sup> Standard), Assam Higher Secondary Education Council, Assam  
1995 Matriculation (10<sup>th</sup> Standard), High School Leaving Certificate, Assam  
1994 Sangit Prabhakar (Tabla), Prayag Sangit Samiti, Allahabad

## Employment record

since Sep/2011 Assistant Professor, Department of Civil Engineering, Assam Engineering College, Guwahati, Assam, India  
2011 – 2011 Assistant Professor, Department of Civil Engineering, Jorhat Engineering College, Jorhat, Assam, India  
2007 – 2011 Assistant Engineer (Civil), Irrigation Department, Govt. of Assam, India  
2007 – 2007 Assistant Manager(Civil), Namrup Thermal Power Station(NTPS), Assam, India  
2006 – 2007 Consultant and Design Engineer, Experto Geotechnical Consultants and Research Pvt. Ltd., Guwahati, Assam, India.  
2005 – 2006 Laboratory Assistant, Department of Civil Engineering, Assam Engineering College under a DST sponsored project, Microzonation of Guwahati City.

## Membership in Professional Associations:

Description	Organization / Body	ID
Life Member	Indian Geotechnical Society (IGS)	LM 3637
	MIE – Member of The Institution of Engineers (India)	M163279-5
	Assam Science Society	

## Academic and Industry related activities

### **Training, Project management and industry-related activities**

2022-23	Coordinator, Principal Technical Agency, Assam Engineering College for Chief Ministers Road Development Programme, Assam
2022-23	Member, Selection Committee for the empanelment of State Quality Monitors (SQM) in Assam, PWD (Roads).
2021	Nodal Officer, for execution and implementation of work as per MoU signed between NHAI and Assam Engineering College.
2021	Member, Interview Board for Selection of Project Assistants and Laboratory Helpers on contractual basis for NRIDA funded projects, Rural Connectivity Training and Research Centre (RCTRC) Assam cum Assam Road Research & Training Institute (ARR&TI), PWD (Roads), Fatashil Ambari, Assam
2021	Member of a Team of Technical Expert Nominated by National Rural Infrastructure Development Agency (NRIDA), Ministry of Rural Development (MoRD), Government of India for the Inspection of PMGSY projects in the Lakhimpur District of the State of Assam
2020	Resource Person – Training of Road Safety for PWD(R), Assam organized by Rural Connectivity Training and Research Centre (RCTRC), PWD(R), Assam.
2019	Member, Core Committee, Assam State Disaster Management Authority for preparation of DPR for Landslide Mitigation Project.
2018	Member, Technical Committee, Assam State Disaster Management Authority for Shelter Prototype of the “Mother Shelter – A Comprehensive portable Flood relief camp capsule”
2017	Nodal Officer-Finance in TEQIP-III Project of MHRD, Govt. of India in Assam Engineering College
2017	Resource Person-Short Course on Construction Management for professionals in Assam Engineering College in Collaboration with University of Melbourne, Australia.
2017	Resource Person-2nd Annual Workshop on Smart Villages, organized by Assam Engineering College in Collaboration with University of Melbourne, Australia.
2017	Member of Central Team, Nominated by Ministry of Rural Development, Government of India for Inspection of PMGSY Roads in the Bameng Assembly Constituency of Arunachal Pradesh.
2016	Resource Person-1st 2nd Annual Workshop on Smart Villages, organized by Assam Engineering College in Collaboration with University of Melbourne, Australia.
2016	Coordinator-Training Programme on Earthquake Resilient Technology for Engineers, funded by Assam State Disaster Management Authority (ASDMA), Govt. of Assam, India.
2016	Member of Govt .of Assam (ASDMA) funded project - "Earthquake Damage and Loss Estimation of Guwahati City for Scenario Earthquakes – a step towards Real- Time Earthquake Damage and Loss Information System" (short ELIAS)" in collaboration with NORSAR (Earthquake Hazard and Risk, Stiftelsen NORSAR, Norway) and supported by IIT Roorkee.
Since 2012	Coordinator, State Technical Agency (STA), Assam Engineering College, Pradhan Mantri Gram Sadak Yojana (PMGSY), MoRD, Govt. of India responsible for scrutiny of DPRs related to construction of rural roads under PMGSY for Assam Public Works Roads Department.

## Teaching and guidance

Since 2016 Periodically organizing/assisting in organizing short-term training programmes for in-service and practicing engineers for various government departments in Assam and other states of NE India, sponsored by ASDMA.

Since 2011 Guiding 11 B.E. /B.Tech student groups /15 M.E. students for their theses/dissertations on of topics related to Geotechnical earthquake engineering, site response studies and Geotechnical utilization of waste materials.

## M.E. / M.Tech Students Project Guidance Details

Year	Student Name	Topic
2023	Rajib Bharratharjee	Evaluation of natural fibre for soil reinforcement ( <i>Ongoing</i> )
2022	Ankita Karmakar (PG/CE/007)	FEM Analysis of Subsidence due to Tunneling
	Pragati Baruah (PG/CE/003)	Evaluation of Triaxial properties of modified soil
	Chinmoy Sarma (PG/CE/001)	ANN Based Model for PGA Prediction
	Hrishikesh Thakuria (PG/CE/017)	Site Response Analysis
2019	Bhargav Borah (Roll – 170620001007)	Software for Optimization and Design of Pile Foundation.
	Abu Waydah Rahman (Roll – 170620001001)	A laboratory study on improvement of clay soil sub-grade using coconut coir fibre.
	Kapil Katuwal (Roll-170620001022)	Slope Stability analysis of a few slopes in and around Guwahati Region using Slope/W Software.
2017	Sujay Choudhury (Roll – PG/CE/15/12)	The effect of Lime-Mud on the Consolidation parameters of soil.
	Pranjal Baishya (Roll – PG/CE/15/14)	A laboratory study on sub-grade characteristics of Soil and Marble-dust composite.
2016	Nayan Jyoti Das (Roll – PG/CE/14/07)	Site Response Analysis using Fast Fourier Transform (FFT).
	Mousumi Deori (Roll – PG/CE/14/16)	Site Response Analysis – A Case Study of Panbazar Area of Guwahati City.
2015	Gopal Banik (Roll –PG/CE/13/12)	Effect of Lime-Mud on CBR property of Soil.
	Sanandam Bordoloi (Roll – 13/13)	Soil-Bio Engineering using Water Hyacinth ( <i>Eichhornia crassipes</i> ) fibre. (Jointly guided with Dr. S. Sreedeeep, IITG).
2014	Bhaskar Baruah (Roll – PG/CE/12/15)	A study on the effects of Solid Waste on the geotechnical properties of soil.
2013	Anup Kaushik Sarma (Roll – PG/CE/11/04)	A Study on the effect of Tunnel Excavation on existing Pile Foundation.

**B.E. / B.Tech Students Project Guidance Details**

Year	Topic
2023	Development of site specific Design Response Spectrum
2023	Soil Bio Engineering
2022	Design and Estimate of Pavement
2021	Effect of Lime Mud in Geotechnical Properties of Soil
2020	Site Response Analysis
2019	Planning, Design and Estimation of Landscape Utility Area near Assam Engineering College
2018	Site Selection using GIS
2017	Evaluation of a commercially available soil stabilizer
2016	Effect of Coir Fibres on CBR Strength of Soil Subgrade
2015	A Study on the Influence of Lime-Mud on Atterberg Limit of soil sample.
2014	Total Station Survey of existing Drainage system of AEC.
2013	Spreadsheet based application for Counterfort retaining wall design
2012	Stability analysis of slope in front of Assam Engineering College Principal's residence

**Research interests**

Geotechnical Earthquake Engineering, Site Amplification, Site Response Analysis, Site-Specific Development of Design Response Spectra, Seismic vulnerability and risk analysis, Sustainable Engineering and Waste Material utilization in Road Sector.

**Research Projects undertaken / in progress**

Year	Name of Project	Funding Agency	Project Amount (Rs.)
<b>As Principal Investigator (PI)</b>			
2018-19	Utilization of Lime-mud as soil stabilizer.	AICTE-RPS-NER	14,50,000/-
<b>As Co-Principal Investigator (Co-PI)</b>			
2021	Feasibility of Plastic Paver Blocks for Rural Roads	National Rural Infrastructure Development Agency, MoRD, Govt. of India	20,11,000/-
2021	Comparative Analysis of use of additives Kiln Dust and Rice Husk to improve performance of earthen shoulders	National Rural Infrastructure Development Agency, MoRD, Govt. of India	16,84,000/-
2019-20	Methodology for prioritization of secondary road network sections for planning of maintenance works.	AICTE / NPIU-TEQIP-III-CRS	19,75,000/-

## Civil Engineering Consultancy/Honorarium mode activities

### Honorarium mode:

SL. No.	Year	Client	Description					
1	Since 2012	Assam PWD	Involved in the process of Scrutiny of PMGSY DPRs for the state of Assam					
			PMGSY – I		PMGSY – II		PMGSY-III	
			Road DPR	Bridge DPR	Road DPR	Bridge DPR	Road DPR	Bridge DPR
			1820 Nos	900 Nos	312 Nos	41 Nos	329 Nos	57 Nos

### Consultancy mode:

SL. No.	Year	Client	Description
1	2013	Rites Ltd	Material Property Testing
2	2013	N.F.Railway	Material Property Testing
3	2014	Regional Science Centre	Survey
4	2015	HSCC	Surveying
5	2015	HSCC	Surveying
6	2015	YFC Group	Material Property Testing
7	2015	Pragjyoti Textile Park	Sub-soil investigation for construction of Pragjyoti Textile Park at Sipajhar, Darrang, Assam
8	2015	Govt of Assam	Sub-soil investigation for construction of Proposed Nalbari Engineering College, Udalguri Engineering College, Nagaon Engineering College
9	2016	G. R. Infra Project	Material Property Testing
10	2016	IOCL	Material Property testing w.r.t. Civil Works for Construction of 8 no. of Tank Lorry Loading Bays, Flexible pavement, Driveway & Associated Civil works at North Guwahati LPG Bottling Plant.
11	2016	Vishal Infrastructure Limited.	Material Property testing w.r.t. Provision of Civil Works for Married Accommodation at Site C-1
12	2016	Bharat Electronics Limited	Material Property testing w.r.t.
13	2016	Bharat Electronics Limited	Material Property testing w.r.t. Creation of infrastructure facilities of Additional Six Squadrons of Akash Missile System for IAF
14	2016	M/s. Prasad Construction Company	PROVN OF KLP ACCN FOR CERTAIN UNITS AT NARANGI.
15	2016	NHIDCL	Material Property testing w.r.t. Akajan-Likabali-Bame Road from km. 12.00 to km. 33.00
16	2016	Brahmaputra Board	Material Property Testing
17	2016	Bharat Electronics Limited	Material Property testing w.r.t. Creation of infrastructure facilities of Additional Six Squadrons of Akash Missile System for IAF. (at vehicular maintenance building rooms)
18	2016	HSCC(India) Ltd.	Sub-soil investigation for 100 bedded Medical College at Naharlagun, Arunachal Pradesh
19	2016	HSCC(India) Ltd.	Surveying
20	2016	NCC Ltd.	Material Property testing w.r.t. Construction of Shillong International Center for Performing Arts & Culture (SICPAC) at Shillong Meghalaya.
21	2016	Infracon Pvt. Ltd..	Material Property testing w.r.t. Two laning of Pasighat to Pangin Highway section NH-13 from Km 0.00 to 28.00 in Arunachal Pradesh under SARDP-NE.
22	2016	AGE B/R-I, Narangi	Material Property testing w.r.t. PROVN OF KLP ACCN FOR CERTAIN UNITS AT NARANGI.
23	2016	NR Railway	Material Property testing w.r.t. Railway Embankment
24	2016	DRDO, MoD	Material Property testing w.r.t. tests for Rock Sand
25		Brahmaputra Board	Material Property testing
26	2016	ECI Engineering & Construction Co. Ltd.	Material Property testing w.r.t. Development and Up-gradation of 4-laning of NH 52A from Gohpur (Km 264.10 on NH 52) to Holongi (Km 20.370 on NH 52A) (Total Length = 10.080 Km) in the state of Assam.
27	2016	AECOM	Material Property testing w.r.t. : Improvement and Up -gradation of road from Garobandha to Dalu Km 0.0 to Km 93.00 under NESRIP funded by ADB vide Loan No. 2720-Indian Package ML-CW1.
28	2016	Assam Gas Company Pvt. Ltd.	Sub-soil investigation for construction of 1 <sup>st</sup> CNG Station at Dibrugarh Town, Assam
29	2016	Assam Gas Company Pvt. Ltd.	Foundation Suitability and Safety Analysis f for construction of 1 <sup>st</sup> CNG Station at Dibrugarh Town, Assam

SL. No.	Year	Client	Description
30	2016	AGE, B/R-I(P)(AF) HASIMARA	Material Property Testing w.r.t. Provision of OTM Accommodation and External Services (PH-I) at AF STN Hasimara.
31	2016	AAI, Shillong Airport, Barapani	Material Property Testing w.r.t. Construction of RESA for the existing runway at Shillong Airport, Barapani
32	2017	PGCIL	Material Property Testing
33	2017	NEECON	Material Property Testing
34	2017	NERTS	Field Soil Compaction Test at 132/33 kV substation at Seppa, Arunachal Pradesh
35	2017	STUP Consultants Pvt. Ltd.	Material Property Testing w.r.t. Four Laning of NH-37 from End of Nagaon Bypass to Rangagara (KM 278.600 to KM 297.000) in Nagaon district in the State of Assam under SARDP-NE, Phase A on EPC Mode
36	2017	PGCIL	Material Property Testing
37	2017	PGCIL	Material Property Testing
38	2017	NEECON	Material Property Testing
39	2017	NEECON	Material Property Testing
40	2017	RITE Ltd.	Sub-soil investigation for development of Integrated Check Post at Dawki(Meghalaya) along Indo-Bangladesh Border.
41	2017	AGE B/R Ghy	Material Property Testing
42	2017	PGCIL	Material Property Testing
43	2017	Agriculture Department, Govt. Of Assam	Sub-soil investigation for Multi-storeyed Building at Haflong, Dima Hasao, Assam
44	2017	Assam Gas Company Limited	Sub-soil investigation for for determination for bearing capacity of subsoil at AGCL Industrial Area, Duliagan, Assam.
45	2017	Assam Rifles	Sub-soil investigation for Multi-storeyed Building at Jorhat Town, Assam
46	2017	Assam Rifles	Sub-soil investigation for Multi-storeyed Building for MT-Accommodation at Jorhat Town, Assam
47	2017	Assam Rifles	Sub-soil investigation for Multi-storeyed Building for Sewage Treatment Plant at Jorhat Town, Assam
48	2017	Assam Rifles	Sub-soil investigation for Construction of 03 nos S.M.Barrack (G + II) in1 Block & 01 No. S.M. Barrack (G) at Samsai, Manipur.
49	2017	PGCIL	Material Property Testing
50	2017	PGCIL	Material Property Testing
51	2017	PGCIL	Material Property Testing
52	2017	Rabi Sapkota	Slope Stability Analysis of site located at Devkota Nagar, West Boragaon, Maligaon, Guwahati – 781011, Assam.
53	2017	Assam Gas Company Limited	Plate Load Test at ASTC's plot of land at Chowkidinghee, Dibrugarh, Assam
54	2017	Power Grid Corp. Of India Ltd.	Material Property Testing w.r.t. Construction of 33/11kV DMS Substation, ASM-DMS-03 Package under NER Power System Improvement Project.
55	2017	N.F. Railway	Material Property Testing w.r.t. Construction of Railway Track in between Tetelia and Kamalajari under Kamrup(Metro)
56	2017	Autotest Systems Private Limited	Material Property Testing w.r.t. determination of U.C.S. Parameters of Base Seal Mixed Core Samples.
57	2018	Voyants Solutions Private Limited	Material Property Testing w.r.t. Four laning of Demow to end of Moran bypass section from km 535.250 to km 571.700 of NH 37 in the state of Assam under SARDP on Engineering Procurement and Construction(EPS) mode
58	2018	Voyants Solutions Private Limited	Material Property Testing w.r.t. Four laning of Demow to end of Moran bypass section from km 535.250 to km 571.700 of NH 37 in the state of Assam under SARDP on Engineering Procurement and Construction (EPS) mode
59	2018	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Soil compaction testing for the work construction of 33/11 KV Raga and Hapoli Substation under DMS-ARP-01/B Package, Ziro, Arunachal Pradesh
60	2018	NOPS INFRASTRUCTURE PVT. LTD	Initial Pile Load Test-Vertical as per IS: 2911(Part-4)-1985
61	2018	NF Railway	Material Property Testing w.r.t. Construction of BG standard formation, minor bridge, retaining wall, side drain including all other ancillary works from KM 115.00 (including Boko station yard) to Km 154.00 (including Mirza Station Yard) in connection with NBQ-KYQ BG Doubling Project.
62	2018	MAYUR-R&D-FIVE(JV).	Material Property Testing w.r.t. Construction of approach road and earth filling works in the Center for Perishable Cargo(CPC) Project at LGBI Airport, Guwahati, Kamrup (M), Assam – test of soil for embankment.
63	2018	SMEC	Material Property Testing w.r.t. Balance work for construction of 4-Lane Road from Km 83.400 to Km 111.00 of Maibong to Lumding section of NH-54E in the state of

SL. No.	Year	Client	Description
			Assam, Contract Package, EW-II, AS-25 (Bal).
64	2018	PWD, Assam	Material Property Testing w.r.t. CBR Test report for soil sample (one sample) for PMGSY works.
65	2018	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Soil Testing for the Earth Work for construction of 132/33 KV Naharlagun Substation
66	2018	Garrison Engineer, MES	Material Property Testing w.r.t. CA NO CESZ/LEI/21 OF 2015-16: PROVN OF OTM ACCN FOR MH AT LEIMAKHONG (M/S HARIOM PROJECTS PVT. LTD.)
67	2018	MAYUR-R&D-FIVE(JV).	Material Property Testing w.r.t. Construction of approach road and earth filling works in the Center for Perishable Cargo(CPC) Project at LGBI Airport, Guwahati, Kamrup (M), Assam – test of soil for embankment.
68	2018	All India Radio	SOIL INVESTIGATION AT AIR TRANSMITTER SITE AT JALUKBARI, GUWAHATI, ASSAM
69	2018	Power Grid Corporation of India Limited	Material Property Testing w.r.t. TESTING OF SOIL FOR SITE LEVELING AT 33/11 kV Khenewa Substation
70	2018	Assam Gas Company Limited	Soil investigation at 2(two) selected locations inside AGCL colony, Duliajan
71	2018	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Field Compaction Test at 33/11 KV Sub station at Khenewa, Arunachal Pradesh
72	2018	STUP Consultants Pvt. Ltd.	Material Property Testing w.r.t. Four Laning for NH 37 from End of Nagaon Bypass to Rangagara Tiniali (KM 278.600 to KM 297.000) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.
73	2018	STUP Consultants Pvt. Ltd.	Material Property Testing w.r.t. Four Laning for Highway from Rangagara to Kaliabor Tiniali (KM 297.00 to KM 315.315) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.
74	2018	Water Resurces Dept., Assam	Material Property Testing w.r.t. Bathymetric Survey aalong river Brahmaputra at three locations namely (Dibrugarh, Kaziranga and Palashbari)
75	2019	NORTH EAST CALCINERS PVT. PTD	Soil Investigation At 3(Three) Selected Locations In Proposed Plant For North East Calciners Pvt. Ltd., Bongaigaon
76	2019	BHARAT ELECTRONICS LIMITED	Material Property Testing w.r.t. Construction of Non Residential Underground Complex at Laitkor Peak, Shillong, Meghalaya .
77	2019	INDIAN OIL CORPORATION LIMITED	Material Property Testing w.r.t. TT Parking Area with paver block and allied mechanical works at LPG Bottling Plant, Sarpara.
78	2019	INDIAN OIL CORPORATION LIMITED	Material Property Testing w.r.t. TT Parking Area with paver block and allied mechanical works at LPG Bottling Plant, Sarpara.
79	2019	INDIAN OIL CORPORATION LIMITED	Material Property Testing w.r.t. TT Parking Area with paver block and allied mechanical works at LPG Bottling Plant, Sarpara.
80	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Construction of store cum office building and transit camp building at Guwahati under NETC consultancy.
81	2019	M/S TECHNO GLOBAL SERVICES PVT. LTD	Material Property Testing w.r.t. Gas Receiving Terminal at Panikhaiti, Guwahati for Barauni to Guwahati Gas Pipeline Project.
82	2019	AGE B/R-II (AF), Borjhar	Material Property Testing w.r.t. CA No: CE/AF/SZ/BOR/42 of 2016-2017: PROVN OD AUDITORIUM AT AFS BORJHAR (M/S MARY ASSOCIATE) JOB NO EAC/CAP/A65/19WG/2012-2013.
83	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Construction of store cum office building and transit camp building at Guwahati under NETC consultancy
84	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Construction of New S/S works under ASM-DMS-03 Pkg, of NERSPIP, Mangaldoi .
85	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Construction of 33/11 kV Mebo Ss, Arunachal Pradesh.
86	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Construction of 33/11kV Sesa Ramdia & Domdoma Sub-station against the work for ASM-DMS-03 Package under NER Power System Improvement Project.
87	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Testing of Soil for Site Filling of 132/33 kV Substation at Gerukamukh.
88	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Testing of Soil under package ARP-SS-01B under Comprehensive Scheme at Arunachal Pradesh.
89	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Testing of Soil under package ARP-SS-01B under Comprehensive Schems Arunachal Pradesh.
90	2019	NERPSIP	Material Property Testing w.r.t. Testing of soil to be used for backfilling of Sutinga

SL. No.	Year	Client	Description
			33/11 kV Substation associated with MEG-DMS-01 package of NERPSIP scheme Meghalaya.
91	2019	N.F.RAILWAY	Material Property Testing w.r.t. Construction of BG Standard formation, minor bridge, retaining wall, side drain and catch water drain & Track linking including all other ancillary works from Km 154.00 (excluding Mirza station yard) to Km 176.00 (including Kamakhya Station Yard) in connection with NBQ-KYQ BG doubling project.
92	2019	Techno Electric & Engineering Co. Ltd.	Material Property Testing w.r.t. Testing of Construction Materials (WBM Aggregate) being used in construction of 400/220 KV GIS Substation, Zadima, Kohima, Nagaland.
93	2019	BPCL	Material Property Testing w.r.t. Conducting soil tests for location Ummulong-within 3 km from CHC Center towards Jowai on LHS.
94	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Testing of soil to be used for Project ARP-DMS-03 Tawang section under Comprehensive Scheme for strengthening of T & D System in NER Arunachal Pradesh.
95	2019	AMTRON	Material Property Testing w.r.t. Construction of "Proposed Administrative cum Common Facility Center (CFC) Building of Assam Electronics Development Corporation Ltd. (AMTRON) at Tech City, Bongra, Kamrup, Assam
96	2019	BPCL	Material Property Testing w.r.t. Conducting soil tests for location Borapani on LHS onwards Guwahati (Between Chainage 57 to 60 KM) on NH.
97	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Proposed 33/11 kV Rajbhawan Substation, Arunachal Pradesh under ARP-DMS-03 package.
98	2019	BPCL	Material Property Testing w.r.t. Conducting soil tests for location MYNSHGAT-ON LHS TOWARDS ASSAM BORDER ON SH.
99	2019		Material Property Testing w.r.t.
100	2019	Power Grid Corporation of India Limited	Material Property Testing w.r.t. Comprehensive Scheme for strengthening T&D in Arunachal Pradesh, 33/11 kV Ruskin Substation, East Siang, Arunachal Pradesh.
101	2019	AGE, Satgaon	Material Property Testing w.r.t. OTM Accommodation at Nagrangti
102	2019	Rocky Dhar	Proof checking Report of 'Detail design of the construction work of Mukroh Umspar Linking Jrikyndeng road (West Jaintia Hills) Meghalaya and Assam'
103	2019	Simplex Infrastructures Pvt. Ltd..	Material Property Testing w.r.t. Conducting CBR tests
104	2019	Creative Museum Designers	Material Property Testing w.r.t. Construction of K.D.Malaviya National Oil Museum
105	2019	BPCL	Material Property Testing w.r.t. Conducting soil tests for location Baghmara Town in South Garo Hills
106	2019	Vishal Infrastructure Pvt. LTd.	Material Property Testing w.r.t. Provision of Area Development and miscellaneous works at site C-1.
107	2020	AMTRON	Material Property Testing w.r.t. Soil test for construction of Roads and Drainage works at Tech City, Bongra, Kamrup, Assam
108	2020	Global Infra Solutions	Material Property Testing w.r.t. Laboratory Test for the provided samples pertaining to Shillong Bypass project under NHIDCL
109	2020	Prakalpa - Infycons	Material Property Testing w.r.t. 3RD PARTY MONITORING & QUALITY CONTROL FOR THE WORK "Construction of Double Lane Road from Lanka to Umranso via Diyungmukh, Haflong Tinali and Panimur in Assam under North-East Special Infrastructure Development Scheme (NESIDS) (Job No. Umranso_NESIDS_2019-20_01
110	2020	M/s Anil Das	Material Property Testing w.r.t. Construction of flyover at the supermarket intersection on GS Road in Guwahati City under Guwahati City Division No II, PWRD, Assam.
111	2021	M/s. R.P.Jallan	Material Property Testing w.r.t. Site Development works in Dabidubi Land of NRL
112	2021	FOOD CORPORATION OF INDIA	DESIGN OF RCC ROAD AT FSD NORTH LAKHIMPUR, FSD CINNAMORA AND FSD GOSSAIGAON
113	2021	PWD, Assam NEC Works	Vetting of "DPR for the work – Construction of Double Lane Road from Lanka to Umrangso via Diyugmukh, Haflong Tinali and and Panimur in Assam under North East Special Infrastructure Development Scheme (NESIDS)"
114	2021	Technovation Engineering Services/Yatinidhi Consultancy Pvt. Ktd. Gombi Nagar, Lucknow	Material Property Testing w.r.t. Package-IV - Improvement to 2 Lane with paved shoulder of NH-40 section from Km 131 + 820 to Km 151+330 (design Km 45 +760 to Km 63 +530) design length 17.77 km in the State of Meghalaya on EPC Mode under JICA loan Assistance
115	2021	M/s ZEE Engineering & Construction	Vetting of Soil Test Report for installation of New ILS at MBB Airport, Agartala SH: Construction of Localizer hut and platform i/c internal electrification and associated work"
116	2021	PCPL & BIL (JV)	DCP Test for Development of ICP at Dawki, Meghalaya,



SL. No.	Year	Client	Description
			balance works.
117	2021	PCPL & BIL (JV)	PLATE LOAD TEST REPORT FOR CARGO BULIDING AND WAREHOUSE AT ICP, DAWKI, MEGHALAYA INDIA
118	2021	PCPL & BIL (JV)	DESIGN REPORT OF INTERCONNECTED CONCRETE BLOCK PAVEMENT
119	2021	PCPL & BIL (JV)	Sub Soil Investigation for DEVELOPMENT OF ICP AT DAWKI, MEGHALAYA - BALANCE WORKS
120	2021	Hindustan Steelworks Construction Limited	Field Density for Development / Construction of New Campus / Educational Institute for TISS ag Guwahati.
121	2021	Shailaja Commercial Construction Pvt. Ltd.	Material Property Testing w.r.t. Construction of RCC Bridge No. 9/1 over River Bridge Dikrong on NH-15 on Road from Laluk Bihpuria Town via Mencha Dobgibil including Approaches and Protection Works unde Asom Mala for the year 2018-19 (Package No. ASOMMALA/BIHPURIA/01)
122	2021	M/s. STUP Consultants Pvt. Ltd	Four Laning of NH-37 from Nagaon-Bypass to Teliajan (Km: 278+600 to Km:288+600) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode. Reg.-Third Party Test if BC Wearing Course, Surface Irregularity Test (Bump Integrator Test)
122	2021	M/s Eco Tech Papers	DESIGN OF CC ROAD OF M/s ECO TECH PAPERS, GUWAHATI – 781380
124	2022	Spica Projects & Infrastructure	Rehabilitation and Upgradation of Nongstoin_Rambrai-Kyrshai road up to Meghalaya-Assam Boarder from Km-0.335 to 34.039 to 2-lane under SARDP-NE "Phase-A" in the state of Meghalaya on EPC mode"(Package-I. Third Party Physical Test of Soil for N-R-K road project (pkg-1) reg
125	2022	Sr. Manager (Engg), Guwahati Terminal-Betkuchi, IOCL	Testing of Imported Earth/Moorum Samples for Land filling work at Guwahati Terminal Betkuchi, Indian Oil Corporation Ltd, revamping project
126	2022	Sr. Manager (Engg), Guwahati Terminal-Betkuchi, IOCL	Testing of Puli Earth samples for Land filling work at Guwahati Terminal Betkuchi, Indian Oil Corporation Ltd, revamping project
127	2022	Manager , PM-II, NERPSIP, Guwahati	Testing of Borrowed Soil for filling to be used in Township Works Package-A (Construction of Residential non-Residential buildings), associated with NERPSIP
128	2022	Joint Commissioner, P&RD, Assam	Testing of Samples for production of Compressed Stabilized Earth Blocks at SIPRD, Kahikuchi
129	2022	Geo Design & Research Pvt. Ltd	Determination of C & $\sigma$ value as per relevant codes and specifications".Supervision Consultancy Services for construction supervision of Balance work of widening and strengthening of existing NH-31C from 2-Lane to 4-lane from Srirampur (Km0.000) to Kochugaon (Km 30.000) of Bijni to Assam / West Bengal Boarder section of NH 31C in Assam on item rate basis
130	2022	Geo Designs & Research Pvt. Ltd	Soil material testing for bridge well foundation at Ch. 26/2 ".Supervision Consultancy Services for construction supervision of Balance work of widening and strengthening of existing NH-31C from 2-Lane to 4-lane from Srirampur (Km 0.000) to Kochugaon (Km 30.000) of Bijni to Assam / West Bengal Boarder section of NH 31C in Assam on item rate basis
131	2023	TPF Engineering Pvt. Ltd	Construction of 6 lane flyovers at Boragaon, Gorchuk, Lokhra & Basistha junction along with six laning of approaches from section Ch. 146 +172 to Km 161+ 620 on Guwahati Bypass (NH-37) in the state of Assam under Bharatmala Pariyojana in EPC basis. Reg- Soil testing for Flyover/VUF approach
132	2023	Managing Director (IGP), Assam Police Housing Corporation Ltd., Rehabari, Guwahati – 8	Geotechnical Investigation for construction of proposed Commando Battalion Camp at Damcherra in Hailakandi
133	2023	SGCCL-ANPL(JV) Pvt. Ltd	Construction of 4 Lane Flyover from Maligaon to Kamakhya gate on AT Road with extended arm on Pandughat Feeder under SOPD-G for the year 2020-21. (Package No. FLYOVER/MALIGAON/GUWAHATI)
134	2023	M/s AGAM Construction	CA NO: CE(AF)SZ/BOR/05 OF 2022-23: PROVN OF GROUND EXPLOITATION SYSTEM OF AEW & C AT AF STATION BORJHAR (M/S AGAM CONSTRUCTION)
	2023	Indian Oil Corporation Limited	Construction of TT Parking area, RCC drains and miscellaneous allied civil Works including field engineering and third party supervision and Inspection at North Guwahati LPG Bottling Plant, Assam
135	2023	Northern Frontier Railway	Balance Protection work for bridge NO. 218 (Tipkal) & Br. No. 226 (Sankosh) between station bargibari – Bilasipara in connection with the construction of new BG line from New Maynaguri yo Jogigopa Project

SL. No.	Year	Client	Description
136	2023	FOOD CORPORATION OF INDIA REGIONAL OFFICE::NEF REGION SHILLONG::MEGAHALAYA	DESIGN OF RCC ROAD AT FSD BAIRABI, MIZORAM
137	2023	Executive Engineer. District Territorial Building Div., PWD	Soil property testing for soil collected from borrow pit of Kumotiya River Bank for the project "Infrastructure of New Medical College and Hospital at Dhemaji, Assam on Engineering, Procurement and Construction (EPC) Mode-1 Basis
138	2023	POWERGRID, NERPSIP, GUWAHATI	Testing of construction materials (frequency) for construction work of 132/33 kV Hajo SS against the work for ASM-SS-03 Package under NER Power System Improvement Project
139	2023	Power Grid Corporation of India Limited.	Laboratory test to identify the soil strata at different depths
140	2023	INDIAN OIL-AOD	DESIGN REPORT OF INTERCONNECTED CONCRETE BLOCK PAVEMENT
141	2023	ESS FOUNDATION PVT. LTD	Testing of Soil Samples
142	2023	SIMPLEX INFRASTRUCTURES LIMITED	Widening/Improvement to 4(four) lane with paved shoulder of existing single lane from Srirampur (Near Bhairaguri Village) to Kachukhana Hahchara Pagtagan section (PKG-1) of Srirampur to Dhubri road of newly declared NH-127B of existing km 0.00 to km 28.050 (design km 0.00 to km 27.650), design length 27.6500 on EPC Basis in the state of Assam under JICA. Testing of pond ash & soil samples-Reg

#### Short Term Trainings/Workshops/Conferences etc. Attended

Sl. No	Name of the training	Organization	Location	Duration	Dates / Year
1	AICTE Sponsored Short Term Course on Integrated Solid Waste Management.	Quality Improvement Programme, IIT Guwahati	Guwahati	5 days	9 <sup>th</sup> to 13 <sup>th</sup> January, 2012
2	Ground Improvement Techniques with Reference to North Eastern Region.	Indian Geotechnical Society, Guwahati Chapter (NE) Dept. of Civil Engineering, Assam Engineering College, Guwahati	Guwahati	1 day	13 <sup>th</sup> October, 2012
3	Hydrology and Hydraulic Engineering	DHI(India) Water & Environment Pvt. Ltd.	Assam Engg. College	2 weeks	4 <sup>th</sup> - 14 <sup>th</sup> June 2013
4	Training Programme on Scrutiny of DPRs of Roads and Bridges for New STAs.	Indian Academy of Highway Engineers, Noida	Noida	5 days	23 <sup>rd</sup> to 27 <sup>th</sup> December, 2013
5	AICTE Sponsored Short Term Course on Geotechnical Engineering Practices and Developments.	Centre for Educational Technology, Quality Improvement Programme, IIT Guwahati	Guwahati	5 days	6 <sup>th</sup> to 10 <sup>th</sup> January, 2014
6	Seismic Vulnerability Assessment of RC Buildings using Software Sap2000 Nonlinear Static-based Procedure.	Department of Earthquakes and the Environment, NORSAR, Kjeller, Norway & Department of Civil Engineering, Assam Engineering College, Guwahati	Guwahati	6 days	2 <sup>nd</sup> to 7 <sup>th</sup> June 2014
7	CSIR-CRRI Sponsored Workshop on New Materials / Technologies in Rural Roads for STAs of North Eastern States.	CSIR-CRRI and PWD, Assam	Guwahati	2 days	2 <sup>nd</sup> to 3 <sup>rd</sup> December, 2014

Sl. No	Name of the training	Organization	Location	Duration	Dates / Year
8	15 <sup>th</sup> Symposium on Earthquake Engineering.	Department of Earthquake Engineering, IIT Roorkee and Indian Society of Earthquake Technology, Roorkee	Roorkee	3 days	11 <sup>th</sup> to 13 <sup>th</sup> December, 2014
9	AICTE Sponsored Short Term Course on Challenges and Recent Advances in Geotechnical Engineering Research and Practices.	Centre for Educational Technology, Quality Improvement Programme, IIT Guwahati	Guwahati	5 days	9 <sup>th</sup> to 13 <sup>th</sup> March, 2015
10	Nonlinear Analysis and Performance Based Design of Multistorey Buildings.	1. Department of Earthquake Engineering, IIT Roorkee 2. Department of Earthquake Hazard & Risk, NORSAR, Norway 3. BMTPC, Ministry of Housing and Urban Poverty Alleviation, Gol, 4. Norwegian Geotechnical Institute, Oslo, Norway	New Delhi	3 days	3 <sup>rd</sup> to 5 <sup>th</sup> December, 2015
11	Cross Cultural Analysis and Capacity Building in Construction Management Practices on Housing and Infrastructure Sectors in Assam and Australia.	University of Melbourne & Assam Engineering College	Guwahati	4 days	13 <sup>th</sup> to 16 <sup>th</sup> December, 2016
12	Visiting Academic Scholar on the Collaborative research on Smart Villages.	University of Melbourne and Assam Engineering College	University of Melbourne, Australia	8 weeks	24 <sup>th</sup> April, 2017 to 18 <sup>th</sup> June, 2017
13	SMART VILLAGES (As Resource Person).	University of Melbourne & Assam Engineering College & Govt. of Assam	Guwahati	4 days	4 <sup>th</sup> to 7 <sup>th</sup> December, 2017
14	TEQIP-III Orientation Workshop on Start-up and Innovation.	NPIU and Centre for Educational Technology, IIT Guwahati	Guwahati	2 days	22 <sup>nd</sup> to 23 <sup>rd</sup> December, 2017
15	Financial Management & Public Financial Management System (PFMS).	National Project Implementation Unit (NPIU) & State Project Implementation Unit (SPIU), a Unit of MHRD in Technical Education Govt. of India	Gauhati University Institute of Science and Technology, Guwahati	2 days	26 <sup>th</sup> to 27 <sup>th</sup> June, 2018
16	Faculty Induction Workshop.	NPIU & IIT Kharagpur	IIT Kharagpur, West Bengal	1 week	3 <sup>rd</sup> to 7 <sup>th</sup> July, 2018
17	3 <sup>rd</sup> Basic course on Remote Sensing and GIS Technology Applications.	North Eastern Space Application Centre, Department of Space, Govt. of India	Umiam, Meghalaya	2 week	16 <sup>th</sup> to 27 <sup>th</sup> July, 2018
18	Training Programme on Landslide Mitigation and Detailed Project Report (DPR)	National Disaster Management Agency & IIT Mandi	IIT Mandi, Himachal Pradesh	1 week	27 <sup>th</sup> August 2018 to 1 <sup>st</sup> September,

Sl. No	Name of the training	Organization	Location	Duration	Dates / Year
	Preparation.				2018
19	1 <sup>st</sup> International Conference on Smart Villages and Rural Development (COSVARD-2018).	University of Melbourne & Assam Engineering College & Govt. of Assam	Assam Administrative Staff College, Guwahati	3 days	12 <sup>th</sup> to 14 <sup>th</sup> December, 2018
20	Sustainable Materials and Green Buildings (Certificate Course)	<b>SWAYAM-NPTEL</b> Course by Prof. B.Bhattacharjee, IIT Delhi	Online	12 weeks	29 <sup>th</sup> July 2019 to 18 <sup>th</sup> October 2019.
21	Geotechnical Engineering Laboratory. (Certificate Course)	<b>SWAYAM-NPTEL</b> Course by, Prof. J.N.Mandal, IIT Bombay	Online	4 weeks	29 <sup>th</sup> July 2019 to 23 <sup>rd</sup> August 2019
22	Integrated Waste Management for a Smart City. (Certificate Course)	<b>SWAYAM-NPTEL</b> Course by Dr Brajesh Kr. Dubey, IIT Kharagpur	Online	12 weeks	29 <sup>th</sup> July 2019 to 18 <sup>th</sup> Oct. 2019.
23	Quantification of Seismic Hazard and Mitigation of Induced Effects in NER.	Department of Civil Engineering & Centre for Educational Technology (CET)	IIT Guwahati	2 days	08 <sup>th</sup> & 09 <sup>th</sup> November, 2019
24	FDP on 3D Printing.	Department of Mechanical Engineering, AEC and TEQIP-III	Assam Engineering College	1-week	25 <sup>th</sup> to 29 <sup>th</sup> November, 2019
25	FDP on Quality and Quality Engineering.	Department of Mechanical Engineering, AEC and TEQIP-III	Assam Engineering College	1-week	3 <sup>rd</sup> to 7 <sup>th</sup> December, 2019
26	MHRD-TEQIP-III KITE Course on – Internet of Things (IOT).	Parimal and Pramod Chaudhari Centre for Learning and Teaching, IIT Bombay	IIT Bombay	1 week	27 <sup>th</sup> to 31 <sup>st</sup> January, 2020
27	Augmented Reality (AR)/Virtual Reality(VR),	AICTE-ATAL Academy & National Institute of Technology, Warangal	Online	1 week	16 <sup>th</sup> to 20 <sup>th</sup> June, 2020
28	Geosynthetics and Reinforced Soil Structures,	<b>SWAYAM-NPTEL</b> Course	Online	12 weeks	Jan-Apr 2020
29	Geotechnical Engineering – 1	<b>SWAYAM-NPTEL</b> Course	Online	12 weeks	Jan-Apr 2020
30	Geotechnical Engineering – II Foundation Engineering	<b>SWAYAM-NPTEL</b> Course	Online	12 weeks	Jan-Apr 2020
31	Practical Aspects of Geotechnical Investigations from design perspective	Indian Geotechnical Society SC 7 - Student Chapter Activities and Continuing Education	Online	1 day	02 <sup>th</sup> July, 2021
32	Overview on the feasibility of Geophysical soil exploration,	Indian Geotechnical Society SC 7 - Student Chapter Activities and Continuing Education	Online	1 day	10 <sup>th</sup> July, 2021

Sl. No	Name of the training	Organization	Location	Duration	Dates / Year
33	Uses and misuses of SPT	Indian Geotechnical Society SC 7 - Student Chapter Activities and Continuing Education	Online	1 day	16 <sup>th</sup> July, 2021
34	Importance of in-situ testing for the design of deep foundations	Indian Geotechnical Society SC 7 - Student Chapter Activities and Continuing Education	Online	1 day	17 <sup>th</sup> July, 2021
35	Overview of Site Investigation from land to offshore deepwater projects,	Indian Geotechnical Society SC 7 - Student Chapter Activities and Continuing Education	Online	1 day	23 <sup>rd</sup> July, 2021
36	Awareness training in additive manufacturing and its applications,	CDAC, Futureskills Prime, NIELIT, Ministry of Electronics and Information Technology, Govt. of India	Online	2 weeks	3 <sup>rd</sup> to 14 <sup>th</sup> January, 2022
37	Training of Trainers workshop on Structural Dynamics and Earthquake Engineering	IIT Bombay	IIT Bombay	1 day	13 <sup>th</sup> March, 2023
38	Workshop on Sustainable Geoenvironmental Practices: Hazard Mitigation and Environment Protection	IIT Indore & Indian Geotechnical Society	Online	1 week	27-31 <sup>st</sup> March, 2023
39	Training of Trainers workshop on Disaster Resilient Infrastructure Engineering	IIT Bombay, UCL, United Kingdom	IIT Bombay	1 day	28 <sup>th</sup> April, 2023

## Publications

### Book Chapters

- Borah B.J., Borah S. (2024), "**Genetic Algorithm Based Software for Optimization and Design of Piles on Slopes**", in: Advances in Slope Engineering, IntechOpen (Accepted for publication)
- Borah, S., Pathak, J., Goswami, D. (2023), "**Comparative Analysis of SSR and HVSR Method for Site Response Analysis**", In: Sitharam, T.G., Kolathayar, S., Jakka, R.S., Matsagar, V. (eds) Theory and Practice in Earthquake Engineering and Technology. Springer Tracts in Civil Engineering . Springer, Singapore. [https://doi.org/10.1007/978-981-19-2324-1\\_14](https://doi.org/10.1007/978-981-19-2324-1_14)
- Borah B.J., Borah S. (2022), "**Genetic Algorithm Based Optimization and Design of Pile Foundation**". In: Satyanarayana Reddy C.N.V., Muthukkumaran K., Satyam N., Vaidya R. (eds) Ground Characterization and Foundations. Lecture Notes in Civil Engineering, vol 167. Pp.665-676 Springer, Singapore. [https://doi.org/10.1007/978-981-16-3383-6\\_58](https://doi.org/10.1007/978-981-16-3383-6_58)

### Journal/Conference Proceedings

- Deka, B., Deka, G., Borah, S., Das, R. Boruah, A. Saikia, J, Sarma, B & Chah, C.N., "**A Review of use of Additives like Kiln Dust and Rice Husk for the Improvement of Earthen Shoulder Performance**", International Conference on New Technologies and Innovation in Rural Roads, National Rural Infrastructure Development Agency, MoRD, 24-26 May, 2022 New Delhi.-

- Borah, B and Borah S. (2020), “**Genetic Algorithm based optimization and design of pile foundation**”, Indian Geotechnical Conference 2020, 17-19 December, 2020, Andhra University, Visakhapatnam, A.P., India.
- Borah, S., Goswami, D. And Pathak, J. (2020), “**Planning of Smart Cities and Urban Disaster Mitigation: A Study in Guwahati Region based on site amplification**”, 17<sup>th</sup> World Conference in Earthquake Engineering, Japan. (Abstract only)
- Borah, S. and Doloi, H. (2018), “**Sustainable Construction in the Context of Smart Villages in Assam**”, Zero Energy Mass Custom Home (ZEMCH) 2018 International Conference, University of Melbourne, Australia, 29<sup>th</sup> January – 1<sup>st</sup> February, 2018.
- Choudhury, S., Baishya, P. and Borah, S. (2017), “**Effect of Lime-Mud on Consolidation Characteristics of Soil**”, Indian Geotechnical Conference 2017 GeoNEst, 14-16 December, 2017, IIT Guwahati, India.
- Borah, S., Goswami, D. And Pathak, J. (2016), “**Site Response in Guwahati Region using Standard Spectral Ratio**”, International Journal of Research in Engineering and Tehnology, Vol. 5, No 4, pp.77-81.
- Borah, S., Goswami, D. And Pathak, J. (2016), “**Site Response Analysis : Guwahati City and CMP 2025**”, 6ICRAGEE, 6<sup>th</sup> International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, August 1 – 6, 2016, IIT Roorkee Extension Centre, 20 Knowledge Park II, Greater Noida, India.
- Borah, S., Goswami, D. And Pathak, J. (2016), “**Site Amplification: A study in Guwahati Region**”, 16<sup>th</sup> World Conference in Earthquake Engineering, Chile. (Abstract only)
- Das, N.J., Deori, M. & Borah, S. (2016), “**Site Response Analysis: A case study of Guwahati city**”, 1<sup>st</sup> International Conference on Civil Engineering for Sustainable Development-Opportunities and Challenges, 19-21 Dec, 2016, Assam Engineering College, Guwahati, Assam.
- Borah, S., Goswami, G, & Pathak, J. (2016), “**Site Response Studies for Sustainable Urban Planning - A Case Study of the Western Guwahati Region**”, 1<sup>st</sup> International Conference on Civil Engineering for Sustainable Development-Opportunities and Challenges, 19-21 Dec, 2016, Assam Engineering College, Guwahati, Assam.
- Bordoloi, S., Yamsani, S.K., Garg, A. & Borah, S (2015), “**Study on the efficacy of harmful weed species *Eicchornia crassipes* for soil reinforcement**”, Ecological Engineering, Vol 85, pp. 218-222. <https://doi.org/10.1016/j.ecoleng.2015.09.082>
- Bordoloi, S., Yamsani, S.K., Sreedeeep, S. & Borah, S. (2015), “**Effect of compaction state on strength characteristics of fibre reinforced soil**”, 5<sup>th</sup> Indian Young Geotechnical Engineers Conference (5IYGEC), 14-15 March, 2015, Vadodara.
- Baruah, B & Borah, S. (2015), “**Effect of Lime-mud on undrained shear strength of soil**” 5<sup>th</sup> Indian Young Geotechnical Engineers Conference (5IYGEC), 14-15 March, 2015, Vadodara.
- Wahab, S.A., Sharma, A.K., Kalita, M. & Borah, S. (2015), “**Ground Subsidence due to Tunnelling and Effects on Pile Foundations**”, Journal of Applied and Fundamental Sciences, Vol 1(2), pp. 237-244.

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