

Curriculum Vitae

Dr. Anil Kumar Choudhary

Professor & Ex Head

Department of Civil Engineering

N.I.T. Jamshedpur, JHARKHAND

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Joined the Institute: 25.03.1996

Research Interests/Expertise: Geotechnical Engineering, Ground Improvement, Reinforced Earth, Environmental Geotechnique, Alternate Construction Materials.

Educational Qualifications:

- Ph. D (2003) in Civil Engineering (Geotechnical Engg.) from National Institute of Technology, Jamshedpur, Jharkhand – 831 014.
- M.Sc. Engg. (1992) in Geotechnical Engineering from National Institute of Technology, Rourkela, Orissa – 769 008.
- B.Sc. Engg. (1990) in Civil Engineering from National Institute of Technology, Jamshedpur, Jharkhand – 831 014.

Awards /Facilitations/Distinctions:

- **2nd rank** in B. Sc. Engg. at R.I.T., Jamshedpur. (Presently NIT, Jamshedpur)
- **GATE** scholarship during M.Sc. Engg. at REC Rourkela
- **1st Rank** in M.Sc. Engg. at R.E.C., Rourkela. (Presently NIT, Rourkela)
- Award of Dr. **K.S. Krishnan Research Fellowship** as S.R.F. through BARC, Deptt. of Atomic Energy, Govt. of India.
- **Awarded Certificate of Merit for 2005-06** for paper published in journal of Inst. of Engineers (I).
- **Awarded IGS – Shri B. N. Gupta Biennial Award-2015** for the for the best paper on “New Approaches and Techniques for analysis and Design of Shallow Foundations” for the years 2013-14 for the Paper entitled Bearing Capacity of a Strip Footing Resting on Reinforced Fly Ash Slope: An Analytical Approach” by J.N. Jha, **A.K. Choudhary**, K.S. Gill and S.K. Shukla in the Indian Geotechnical Journal (October- December 2013), vol.43, No.4, pp.354-366.
- Awarded “**Eminent Engineer Award**” for the year 2018 by the **Institution of Engineers (India), Jharkhand State Centre, Ranchi.**

Membership of Professional Bodies/ Societies:

- Life Fellow of The Indian Geotechnical Society (**LF 0512**).
- Life Member of The Indian Society for Technical Education (**LM35916**).
- Life Fellow of The Institution of Engineers (India) (**F-1195758**).
- Life Member of The Indian Society for Rock Mechanics and Tunneling Technology (**LM1646**).
- Life Member of The Indian Roads congress (**LM-40442**)
- Member of The International society for soil Mechanics and Geotechnical Engineering (**ISSMGE**) for **2018-2022** (**IND14LF-0512**).

Externally Sponsored R&D Projects completed:

- “**Building Centre at NIT, Jamshedpur**” sponsored by Housing & Urban Development Corporation, Govt. of India, (Amount-Rs. **5.00 lakhs**)
- “**Feasibility Study for Use of Ferrochrome Slag in Construction/Road**” sponsored by Research & Development Department, Tata Steel Limited, Jamshedpur. (Amount-Rs. **13.39 Lakhs**)

Visits Abroad: Japan & Thailand

Research Guidance/Dissertation Supervised: (Details enclose as Annexure- I)

Doctoral Level: 01 (Completed) & **03** (In Progress)

Masters Level: 21 (Completed) & **02** (In Progress)

Undergraduate level: 39 (Completed)

Research Publications: (Details enclose as Annexure- II)

- International / National Journals: **15** (Published) & **03** (Under review)
- International/National Conferences/Seminars: **90**

Patent/ Policy Documents:

- **Patent entitled, “AN APPARATUS TO MEASURE IN SITU SHEAR STRENGTH OF SOIL AND METHOD THEREOF”** published vide Application No. 201631038315A Dated 30/03/2018 in 'The Patent Office Journal No. 13/2018 dated 30.3.2018, pp.11292”
- **Patent entitled, “RAIN DROP SOIL EROSION STIMULATOR”** published vide Application No. 201931010895A, Dated 13/04/2018 in 'The Patent Office Journal No. 15/2018 dated 13.4.2018, pp.13427”

Book Chapters in the Book Published by reputed International Publishers:

- **Choudhary, A.K., Sagarika Das and J, N.Jha , (2018) “Improvement of Properties of Clay Subgrade Using Waste LDPE Strip Reinforcement”** Chapter No:36, Proc. ‘1st International Conference on Sustainable Waste Management through Design’ Book ID : **466378_1_En**, published by Springer Nature Switzerland AG, pp. 103-115.
- **Sinha, A.K., J, N.Jha and Choudhary, A.K., (2018) “A Study on CBR Behaviour of Waste Pet Strip Reinforced Stone Dust”** Chapter No: 14, of the Proceedings of the ‘1st International Conference on Sustainable Waste Management through Design’ Book ID: **466378_1_En**, published by Springer Nature Switzerland AG, pp. 302-312.
- **D’Souza D.N., Choudhary A.K., Basak P., Shukla S.K.(2019) “Assessment of Vetiver Grass Root Reinforcement in Strengthening the Soil”** In: Thyagaraj T.(eds) ‘Ground Improvement Techniques and Geosynthetics’ Lecture Notes in Civil Engineering, Vol. 14, Springer, Singapore, ‘pp. 135-142, Print ISBN:978-981-13-0588-0 & Online ISBN: 978-981-13-0589-7.
- **Choudhary Anil Kumar, Binex Kunjumon and Jagadanand Jha (2019) “Improving the Performance of Ordinary Stone Column by Geotextile Encasement”** Book Title: ‘Geotechnics for Transportation Infrastructure’, Book ID: 475495_1_En, Book ISBN: 978-981-13-6712-0, Chapter No.: 39 published by ‘Springer Nature Singapore Pte Ltd.
- **Madhumita Mohanty, Choudhary Anil Kumar, and Sunita Kumari “A Study on the Behaviour of Multilayered Geocell-Reinforced Bottom Ash”** Book Title: ‘Geotechnical Characterization and Modelling’, ISBN 978-981-15-6085-9 ISBN 978-981-15-6086-6 (eBook) published by ‘Springer Nature Singapore Pte Ltd. 2020’ pp. 639-654.

Testing & Consultancy Undertaken: 109 Nos. (Rs. 118.89 Lakhs /Details enclosed as Annexure- III)

Member Editorial board/Reviewer/Conference /Chair:

- Editor & Reviewer “Cogent Engineering” Taylor & Francis Online International Journal
- Reviewer " International Journal of Geosynthetics and Ground Engineering" (Springer)
- Reviewer " International Journal of Geotechnical Engineering" (Taylor & Francis Online)
- Reviewer "Indian Geotechnical Journal" (Springer)
- Reviewer “Heliyon Journal” (Elsevier)
- Reviewer “GeoCongress 2019” ASCE 2019
- Reviewer “Geosynthetic International” J. of Int. Geosynthetic Society.

- **Co-chaired** one Technical Session at the National Conference on "**Geotechnical and Geoenvironmental Aspects of Waste and their Utilization in Infrastructure Projects**" organized by Indian Geotechnical Society- Ludhiana Chapter in association with Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana (Punjab) during 15-16 Feb.2013.
- **Chaired**, One Technical Session at the National Conference on "**Geotechnical Engineering Practice and Sustainable Infrastructure Development**" organized by Indian Geotechnical Society- Ludhiana Chapter in association with Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana (Punjab) during 11-12 Oct.2014.
- **Chaired**, One Technical Session at the Nat. Conf. On '**Recent Innovation in Earthquake Resistant Techniques**', organized by RVS College of Engg., Jamshedpur during 09-10 Nov.2015.

Traning Programmes/Summer/Winter Schools Attended:

Sl. No.	Name of the Courses	Place & Sponsored by	Dates
1.	"Engineering of Ground"	I.I.T., Kanpur	One Week (May 12-17, 1997)
2.	"Training Programme for Project Managers of Building Centers"	HUDCO Zonal Training Centre, Chennai	Two Weeks (Aug. 18-29, 1997)
3.	"Random Vibration and Application to Earthquake Engineering"	I.I.T., Kharagpur	Two Weeks (Dec. – 1999)
4.	"Induction Training Programme"	R.E.C., Kurukshetra	Three Weeks (May-June, 2000)
5.	"Teachers' Role in Engineering Education"	R.I.T., Jamshedpur	Three weeks (Dec.25-Jan.13, 2001)
6.	Management Development Programme on "Standards Rules and Procedures of the World Bank for Procurement of Goods, Works and Services"	N.I.F.M., Faridabad	One Week (8-13, March, 2004)
7.	"Training of Faculty Members of State Resource Institutions" Under National Programme of Capacity Building In Earthquake Risk Management (NPCBEERM)	I I T,Kharagpur	Four weeks (March20-April 15,2006)
8.	"Interpersonal Effectiveness (Level-II)"	N.I.T, Jamshedpur	One Week (10-14 July, 2006)
9.	" Metrology For Engineering Institution"	N.I.T, Jamshedpur	17-19 July, 2006
10.	"Ground Improvement Techniques for Difficult Ground Conditions"	I.I.T, Roorkee	1-3 Aug., 2006
11.	"Seismic Reliability and Life Assessment of Structures" Under National Programme of Capacity Building In Earthquake Risk Management (NPCBEERM)	I .I .T, Kharagpur	One Week (12-16 March, 2007)
12.	MHRD/AICTE Staff Development Programme on "Natural Hazards-Preparedness and Mitigation"	Civil Engg. Deptt., NIT, Rourkela	Two Weeks (15-28Dec. 2008)
13.	"Building Materials Characterisation And Testing"	MNIT, Jaipur	One Week (01-05 June,2015)
14.	"Geotechnical Investigation for Structural Engineers"	IIT, Gandhinagar	15-17 Oct. ,2015

Participation in Conference/Seminar/Symposium/Workshop:

1. Presented paper in the International Symposium on '**Earth Reinforcement**' held during 14-16, Nov. 2001 at **Fukoka, Japan**.
2. Participated in one day TEQIP workshop on '**Preparation of NCB Document**' held on 19th April, 2004 at NPIU, **New Delhi**.
3. Participated in one day seminar on '**Disaster Preparedness and Mitigation**' held on 12th Aug. 2004 at center of Excellence, **Jamshedpur** and organized by Jharkhand Govt., CII and UNDP.
4. Participated in One Day Training Course on '**Introduction to Geosynthetics**' and seminar-workshop on '**Geotechnical Engineering Practice with Geosynthetics**' at '**Geosynthetics India 2004**' held during 27-30, October, 2004 at **IIT, Delhi**.
5. Participated in International Workshop on '**Seismic Evaluation and Strengthening of Existing Structures**' 'organized by NIT, Hamirpur at **Shimla, (H.P)** during 15-16 June'2007.
6. Participated in one day seminar on '**Development of soft skill-a must for students of today**' 'organized by STEP IIT-Kharagpur on 25th Aug. 2007 at CET, **Bhubaneswar**.

7. Presented paper in 12th Int. Conf. on '**Geomechanics In The Emerging Social & Technological Age**' by 'International Association for computer Methods and Advances in Geomechanics' (**ICMAG 2008**) held during 1-6 Oct. 2008 at **Goa**.
8. Participated in Two day Workshop on '**LINUX**' organized by Deptt. of Comp.Sc., **NIT, Jamshedpur** during 07-08 Feb. 2009.
9. Presented paper in 6th Int. Congress on '**Environmental Geotechnics**' held during 08-12, Nov. 2010 at **N. Delhi**.
10. Presented paper in Indian Geotechnical Conference '**Advances in Geotechnical Engineering, IGC-2012**', held during 13-15 Dec. 2012 at **IIT, New Delhi**.
11. Presented paper in Nat. Conf. on '**Geotechnical and Geoenvironmental Aspects of Wastes and their Utilization in Infrastructure Projects**' held during 15-16 Feb. 2013 at **GNDEC, Ludhiana**.
12. Participated in Indian Geotechnical Conference '**Geotechnical Advances and Novel Geomechanical Applications (GANGA)**' held during 22-24 Dec. 2013 at **IIT, Roorkee**.
13. Participated in one day TEQIP workshop on '**e-Financial Monitoring Report and Financial Management Training**' organized by NPIU on 29th May 2014 at Sardar Patel College of Engineering, **Mumbai**.
14. Participated in one day TEQIP workshop on '**Environmental management Framework & Procurement Management**' organized by SPFU, W.B on 5th July, 2014 at Jadavpur University, **Kolkata**.
15. Participated in Two day Workshop on 'Reinforced concrete Design' organized by IVS Nobel Solutions during 19-20 July 2014 at **IIT, New Delhi**.
16. Participated in One Day Workshop on '**Forensic Geotechnical Engineering**' and Nat. Conf. on '**Geotechnical Engineering and sustainable Infrastructure Development**' held during 10-12, October, 2014 at **GNDEC, Ludhiana**.
17. Presented paper in Indian Geotechnical Conference '**Geotechnics for Inclusive Development of India 2014 (GEOIND) IGC-2014**', held during 18-20 Dec. 2014 at JNTU, **Kakinada (A.P)**.
18. Presented paper in Nat. Conf. on '**Recent Innovation in Earthquake Resistant Techniques**', held during 09-10 Nov. 2015 at RVS College of Engg., **Jamshedpur**.
19. Presented paper in Indian Geotechnical Conference '**Geotechnics for Infrastructure & Foundation Techniques (GIFT2015) IGC-2015**', held during 17-19 Dec. 2015 at College of Engineering, **Pune**.
20. Participated in the "**International Webinar on Motivation for Research & Innovation**" jointly organized by MIT, Muzaffarpur and SPIU Bihar on **25th July 2020**.

Organization of Short Term Training Programmes:

- Organized Two Weeks Skill Development Programme '**Mason Training Programme**' for Local Masons/ artisans Under Building Centre Project at NIT, Jamshedpur during **05-18th July 2000**.
- Organized Three Weeks Skill Development Programme for Unskilled labour/ workers Under Building Centre Project at NIT, Jamshedpur during **15 Dec 2000-5th Jan 2001**.
- Organized Three Weeks Skill Development Programme '**Advanced Mason Training Programme**' for Local Masons/ artisans Under Building Centre Project at NIT, Jamshedpur, during **22.01.2001 to 04.02.2001**.
- **Coordinator** of One Week Training Programme for Civil Engg. Students of NIT, Silchar under Networking Scheme of TEQIP-I at NIT, Jamshedpur during **7-13th March 2006**.
- **Course Coordinator**, Short Term course on "Recent Advances in Civil Engineering (RACE-2017), Sponsored by TEQIP-II, NIT Jamshedpur, held during **March 2 – 4, 2017**.
- **Convener**, Six Days National Workshop on "**Geo-Systems And Geo-Materials (GSGM-2019)**" Sponsored by TEQIP-III, NIT Jamshedpur, held during **3-8 June, 2019**.
- **Convener & Panelist** for Three Days National Webinar/ Video Workshop on "**TRANSFORMING PEDAGOGY IN INDIA**" Sponsored by TEQIP-III, NIT Jamshedpur, held during **1st- 3rd August, 2020**.
- **Convener**, National Conference on "**Geo-Science and GeoStructures**" (**GSGS 2020**) Sponsored by TEQIP-III, NIT Jamshedpur, held during **03-04 September, 2020**.

Significant Outreach Institute Activities:

- Delivered lecture on the Topic entitled '**General Characteristics and Quality Requirements of Bricks- A General Overview**' at Integrated customers Services, Town Division, TATA STEEL, Jamshedpur, during 16-17 July, 2003.
- Guest faculty at Jamshedpur Women's College, Jamshedpur for the courses on '**Water and Environment Resource Management**' during the Academic sessions 2002-2003, 2003-2004 & 2004-2005.
- Nominated as resource person for 'National Programme for Capacity Building for Engineers in Earthquake Risk Management' for Deptt. of Relief and Rehabilitation, Govt. of Jharkhand (Since 2004)
- Nominated as Faculty Advisor, Student Chapter (Civil Engg.), N.I.T. Jamshedpur, The Institution of Engineers (India) (Since 2005).
- Delivered lecture on the Topic entitled' **Bearing Capacity Behaviour of Strip Footing on Reinforced Fly Ash Slope**' and '**Improvement of Expansive Soil Subgrades Using Geosynthetics**' at the' Staff Development Programme on **Geotechnical Investigations and Ground Improvement with Geosynthetics for Structural and Construction Engineers "** organized by Indian Geotechnical Society- Ludhiana Chapter in association with Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana (Punjab) during 22.12.2011-05.01.2012.
- Delivered lecture on the Topic entitled' **Geotechnical Investigation- The Indian Scenario and Scope for Improvement**' and '**Slope Stabilization Techniques: An Overview**' at the Two days Training Program on "**Ground Improvement and Ground Control Including Waste Containment with Geosynthetics**" organized by Indian Geotechnical Society- Ludhiana Chapter In association with Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana (Punjab) during 9-10 Dec. 2015.
- Delivered lecture on the Topic entitled' **Ground Engineering: An Overview**' and '**Geotechnical Investigations Report And Interpretation**' at One Day Workshop on '**Role of Geotechnical Investigations and Ground Improvement Techniques for Structural and Construction Engineers**' organized by The Institution of Engineers (India), Jamshedpur Local Centre on 19th March 2016.
- **Nominated as Member** of District Environmental Impact Assessment Authority, West Singhbhum, Chaibasa (Continuing since May2016)
- **Honorary Secretary of The Institution of Engineers (India), Jamshedpur Local Centre (2016-2018).**
- **Organized One Day workshop** entitled' "**Utilization of Industrial & Mining Wastes In Engineering Projects for Materials Sustainability**" at the The Institution of Engineers (India), Jamshedpur Local Centre on 7th October 2017 and Delivered Two lectures.
- Nominated as **Performance Auditor** (Rajkiya Engineering College, Banda, Uttar Pradesh & School of Engineering, Cochin University of Science of Technology, Cochin) and **Mentor** (GBPEC Pauri Garhwal, Uttarakhand & A U College of Engg, Visakhapatnam) of Project institution of **TEQIP-III** by **NPIU,MHRD, Govt. of India, N. Delhi.**
- Delivered **Key Note Lecture** in All India Seminar on "**Major Advances and Sustainable Development in Production Engineering**" organized by The Institution of Engineers (India), Jamshedpur Local Centre during 15-16 July 2017.
- Delivered lecture on the Topic entitled' **Geotechnical Investigations Report and Interpretation**' in the' **Five Day Online Faculty Development Program on 'RECENT TRENDS AND RESEARCH SCOPE IN CIVIL ENGINEERING'** organized by Chaitanya Bharathi Institute of Technology, **Hyderabad** during **06 – 10July, 2020.**
- Delivered National Webinar on the Topic entitled' **Geotechnical Engineering: Some Facts & Myths**' for '**Mitra Webinar Series**' jointly organized by **MIT, Muzaffarpur and SIT Sitamarhi** sponsored by **TEQIP-III** on **30th August 2020.**
- Delivered National Webinar on the Topic "**Sustainable Development :A General Overview**" in **TEQIP-III** Sponsored one week Student training program on "**Essentials for Startup, Innovation and Incubation**" organized by **Rajkiya Engineering College, Banda** (U.P.) during **15-19 Jan. 2021.**

Contribution to Institutional Corporate life:

A. (Institute level):

S. No.	Particulars
1	Tabulator PTPG programme , NIT, Jamshedpur (Under Ranchi University) for 2001 batch
2	Course Coordinator , Part Time Post Graduate Programme for Civil Engineering. (26.9.2002-1.10.2004)
3	Procurement Coordinator for World Bank sponsored Technical Education Quality Improvement Programme , TEQIP-I (29.09.2004- 05.3.2009)
4	Warden, Shivaji Hall of Residence (Hall – F), NIT, Jamshedpur, (06.1.2005 - 06.7.2008)
5	Member ,Hall Management Board / Co-ordinating Warden (Finance), NIT, Jamshedpur, (28.3.2005 - 06.7.2008)
6	Asstt. Warden, Hall -A (02.7.2008 - 18.8. 2008)
7	Nodal Officer (Finance) for World Bank sponsored Technical Education Quality Improvement Programme (TEQIP- I & II: 06.3.2009- 17.5.2016)
8	P.I (Consultancy), Testing & Consultancy cell, NIT, Jamshedpur. (04.9.2009-17.10.2011)
9	P/I (Legal) , NIT, Jamshedpur (06.8.2010-21.8.2014)
10	Member , Project Management Cell, NIT, Jamshedpur (16.8.2010 - 21.5.2013)
11	Prof.-in-charge, Hostel Maintenance Cell (HMC), NIT, Jamshedpur (31.8.2010- 21.5.2013)
12	Member- Convener , Institute Grievance Cell, NIT, Jamshedpur (30.5.2011 - 07.1.2014)
13	Member , Admission Committee,(PG &R),NIT, Jamshedpur(Academic session:2013-2014 ,2014-2015 & 2015-2016)
14	Head, Civil Engg. Department, NIT, Jamshedpur (13.5.2013-28.6.2015)
15	Member/ Director’s Nominee , Civil Works committee, NIT, Jamshedpur (Ex Officio: 22.5.2013-28.6.2015)
16	Member , Local Purchase Committee related to Water works , NIT, Jamshedpur (Ex Officio: 20.6.2013-28.6.2015)
17	Member, Advisory Committee on ‘National Initiative for Design Innovation”, NIT, Jamshedpur. (Ex Officio: 30.01.2014-28.6.2015)
18	Member, JUSCO Arbitration Committee , NIT, Jamshedpur (Ex Officio: 23.6.2014 -28.6.2015)
19	Member, Training & Placement Advisory Committee, (Ex Officio: 03.7.2014-15.5.2016)
20	Member, Accreditation Committee (U.G), NIT, Jamshedpur, (Ex Officio: 20.8.2014-28.6.2015)
21	Member, Institute Administrative Manual committee , NIT, Jamshedpur, (Ex Officio: 06.2.2015-28.6.2015)
22	Member, Departmental Procurement Committee for Institute Central Library (27.2.2015-26.02.2020)
23	Member, Committee for ‘Hiring Adjunct Faculty in Centrally funded Technical Institutions’ (11.3.2015- 20.3.2015)
24	Associate Dean (Industry and Alumni Relations), NIT, Jamshedpur, (13.5.2015-15.5.2016)
25	Coordinator for World Bank sponsored Technical Education Quality Improvement Programme (TEQIP-II: 18.5.2016-27.9.2017 & TEQIP-III: 28.9.2017-09.01.2020)
26	Member/Primary User for GeM portal , NIT Jamshedpur (17.9.2018-17.02.2020)
27	Member of Advisory Committee on Non Faculty Recruitment (ACONFAR) (24.6.2019-26.02.2020)
28	Member, Research & Consultancy Committee , NIT Jamshedpur (24.9.2018-22.6.2020)
29	Member , Central & Major Equipment Purchase Committee (CMEPC),NIT, Jamshedpur (20.5. 2014 -27.11.2018)
30.	Member of Building and Works Committee (BWC) NIT Jamshedpur (continuing since 24.9.2018)
31.	Member of Intellectual Property Rights Cell , NIT Jamshedpur (continuing since 08.02.2019)
32.	Registrar (I/C) , NIT Jamshedpur (09.01.2020-20.10.2020)

B. Department Level:

S.No	Particulars
	Prof. In-charge of Geotechnical Engg. Lab., Civil Engg. Deptt (26.9.2000-27.05.2020)
1	Chairman , Purchase/ Write off committee at Civil Engineering Deptt., (16.10.2003- 09.02.2005).
2	Member , Departmental Write-off Committee (09.02.2005-12.5.2013).
3	Member Departmental Admission Committee for PTPG programme, 2001-batch
4	Faculty Advisor for 2006 Batch, Civil Engg
5	Faculty Advisor for 2009 Batch, Civil Engg.
6	Faculty Advisor , N.I.T. Jamshedpur Student Chapter (Civil) I.E.(I) (Continuing since 09.02.2005)
7	Served as Chairman , Board of Studies, Civil Engg. (Ex Officio: 13.5.2013-28.6.2015)
8	Faculty Advisor , (PG &R) 2015 Batch
9.	Prof. In-charge of newly established Lab. Geosynthetics & Geoenvironmental Engg Lab. (Continuing since 17.9.2018)
10.	Member Departmental Research Committee (Continuing since 28.10.2020)

RESEARCH GUIDANCE**I. Ph. D Guidance:**

Sl. No	Month/ Year	Title	Name of Student	Supervisors	Remarks
1.	July 2013	“Bearing Capacity and Stability Analysis of Reinforced Fly Ash Slopes”	Mr. Kulbir Singh Gill	Dr. J.N.Jha & Dr. A.K.Choudhary . (Submitted to Punjab Technical university Jalandhar)	Completed
2	July 2018	“Assessment of Snow and Glacier Melt Contribution in the Satluj River Basin under Changing Climate Scenarios For Prediction of Hydropower Potential”.	Miss Nikki Chanda (2018 RSCE 011)	Dr. Ch. M.S. Rao & Dr. A.K.Choudhary	Ongoing
3.	July 2019	“Behaviour of Inclined Plate Anchor Subjected to Axial Uplift Load”	Mr. Ashutosh Kumar (2019 RSCE 002)	Dr. A. K. Choudhary & Dr. Awdhesh Kumar Choudhary	Ongoing
4.	October 2020	Course work in Progress	Mr. Soumen Naskar (2020 RSCE 003)	Dr. Awdhesh Kumar Choudhary & Dr. A. K. Choudhary	Ongoing

II. M. Tech. Guidance:

Sl. No.	Month/ Year	Title	Name of Student	Remarks (If any)
1.	Dec. 1997	“Bearing Capacity of Square Isolated Shell Footing on Sand”	Shri C.N.Thakur	
2.	June 2002	“A Study on Geotechnical Behavior of Fibre Reinforced Fly Ash”	Shri Nishith Kumar	
3.	July 2007	“Study of Corrosion Behavior of Mild Steel Embedded in Concrete”	Shri Altaf Ahmad	
4.	Feb. 2011	“Analysis and Design of Turbine Generator Frame & Foundation system	Shri Sanjib Kumar Das	Submitted to Inst. of Engineers (I)
5.	June 2015	“Impact of Self-Weight and Super-Imposed Load on The Variation of Void Ratio and Permeability across The Depth of A Soil Deposit”	Shri Biswojit Samal	Dr. Punyabrata Basak (Co supervisor)
6.	June 2015	“Influence of Waste Recycled Product On Swelling and Strength Characteristics of Expansive Soil”	Shri Tanmaya Kumar Sahoo	
7.	June 2016	Deeper Exploration In Weight Volume Relationships For Porous Media With Specific Reference To Geotechnical Engineering.	Shri Amaljith V	Dr. Punyabrata Basak (Co supervisor)
8.	June 2016	“Influence of Rice Husk Ash on Swelling and Strength Characteristics of Expansive Soil”	Shri Arpit Jain	
9.	June 2016	“Slope Stabilization by Soil Bioengineering: A Study on the use of Vetiver Grass for Slope Stabilization and Erosion Control” (Vol. I&II)	Shri Donal Nixon Dsouza	Dr. Punyabrata Basak (Co supervisor)
10.	June 2017	"Load Test on Strip Footing Resting on Prestressed Geotextile Reinforced Ferrochrome Slag"	Shri Ujjawal Prakash	
11.	June 2017	"Strength and Deformation Characteristics of Bottom Ash Reinforced with Single Layer Geocell Mattress Made of Waste Plastic PET Bottles"	Miss Fulambarkar Sujata Jitendra	
12.	June 2017	“Studies on Load Carrying Capacity of Single Geotextile Encased Ferrochrome Slag Granular Column in Soft Marine Clay”	Shri Binex Kunjumon	
13.	June 2018	“A Study on the Behaviour of Multilayered Geocell Reinforced Bottom Ash”	Miss Madhumita Mohanty	
14	June 2018	“An Experimental Study on Improving the Performance of Soft Clay by Encased Stone Column with Bottom Ash”	Shri Ankit Kumar	

15	June 2018	“Behaviour of Strip Footing Resting on Pretensioned Geogrid Reinforced Ferrochrome Slag Subgrade”	Shri Atul Kumar	
16	June 2019	“Improvement of Properties of Steel Melting Slag Using Waste HDPE Strip Reinforcement”	Miss Sagarika Das	
17	June 2019	“An Experimental Study On The Performance Improving Of Silty Soil By Encased Granular Column Using Shredded Tire Chips”	Shri Nagalapuram Muni Pradeep	
18	June 2019	“On Improving the Performance of Local Soil by Treating with Ferrochrome Slag”	Shri Suvoji Patatla	Dr. Somenath Mondal (Co supervisor)
19	June 2019	“Experimental Investigation Of Silty Soil Treated With Sodium Lignosulfonate”	Shri Abhijeet Gupta	Dr. Awdhesh Kumar Choudhary (Co supervisor)
20.	June 2020	“Numerical Analysis of Buried Pipelines Located in Slopes”	Shri Rishi Ranjan	
21.	June 2020	“Efficacy of Red Mud and GGBS in Improving the Engineering Properties of Black Cotton Soil “	Miss Sweeti Singhdeo	
22.	Ongoing	“Settlement Characteristics of Bottom-Ash Reinforced with Geocell Soil Using Computational Model”	Miss Swamini Das	Dr. Somenath Mondal (Co supervisor)
23.	Ongoing	“ Use of Natural Fiber For Embankments And Retaining Structures In Hilly Area(Mizoram)”	Shri Lalrinhlua Ralte	Dr. Awdhesh Kumar Choudhary (Co supervisor)

RESEARCH PUBLICATIONS:**A. Publications in International / National Journals:**

1. **Choudhary, A.K.**, Kumar, Shailendra & Verma, B.P. (2004), 'Pressure Moulded Blocks with Lateritic Soils', Journal of Institution of Engineers (India), Vol.85, pp.159-162, [ISSN: 0020-336X]/ [Scopus Indexed].
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6. **Choudhary, A.K.**, Jha, J.N & Gill, K.S. (2010) "A Study on CBR Behavior of Waste Plastic Strip Reinforced Soil" Emirates Journal of Engineering Research, UAE University.15(1), pp.51-57, 15 [ISSN:1022-9892]/ [Scopus Indexed].
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9. Gill,K.S, **Choudhary, A.K.** Jha,J.N &Shukla, S.K . (2013), "Large Model Footing Load Test on Reinforced Coal Ash Slope "International Journal of Geotechnical Engineering, UK, 2013, Vol.7, No.3, pp.257-265, [ISSN: 1938-6362].DOI.10.1179/193863621Z.00000000040/[Scopus Indexed].
10. Gill ,K.S, **Choudhary, A.K.** Jha ,J.N &Shukla, S.K. (2013),. "Experimental and Numerical Studies of Loaded Strip Footing Resting on Reinforced Fly Ash Slope "J. of Int. Geosynthetic Society, 'Geosynthetic International, 2013, vol.20, No.1, pp.13-25[ISSN: 1072-6349/ IF: 1.37]/[Scopus Indexed].
11. J.N.Jha, **Choudhary, A.K.** K.S.Gill and S.K.Shukla,(2013)"Bearing Capacity of a Strip Footing Resting on Reinforced Fly Ash Slope: An Analytical Approach" Indian Geotechnical Journal (October- December 2013), vol.43, No.4, pp.354-366,DOI.1007/s40098-013-0059-1[ISSN:0971-9555]/ [SCI].
12. Jha,J. N, **Choudhary, A.K.** Gill ,K.S &, Shukla, S.K (2014) "Behaviour of Plastic Waste Fibre- Reinforced Industrial Wastes in Pavement Applications" International Journal of Geotechnical Engineering,vol.8,No.3pp.277-286,[ISSN:1938-6362]DOI.10.1179/1939787914Y.00000000044/[Scopus Indexed].
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15. Jain, A, **Choudhary, A.K.**, & Jha, J.N. (2019) "Influence of Rice Husk Ash on The Swelling and Strength Characteristics of Expansive Soil" J. 'Geotechnical and Geological Engineering, <https://doi.org/10.1007/s10706-019-01087-6>, pp. 2293-2302.
16. A. Priyadarshini , **Choudhary, A.K** & Jha, J.N, Jha, , Vijay Kumar (2020) "Comparative Study on Bottom Ash as Granular Column Encased with Natural and Synthetic Materials "Journal of Cleaner Production (Under review).
17. Jain, A, **Choudhary, A.K.**, & Jha, J.N, (2020) "Assessment of Swelling and Strength Characteristics of Expansive Soil with Addition of WRP" Geomechanics and Geoengineering (Under review).
18. S.Ghani, Sunita Kumari, **Choudhary, A.K** & Jha, J.N, Jha, (2020) "Experimental and Computational response of Strip Footing resting on Prestressed Geotextile-Reinforced Industrial waste" Journal of Innovative Infrastructure Solutions (Under review).

B. Publications in International Conferences/Seminars /Symposium (Peer reviewed):

1. **Choudhary, A.K.** (1994),“Influence of Fly ash on the Characteristics of Expansive Soils”, Proc. of the Indian Geotechnical Conference, **Warangal**, 26-28 Dec. 1994, pp: 215-218.
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3. **Choudhary, A.K.** & Verma ,B.P.(1999),“Stability of Loaded Footings on Reinforced Fly ash Slopes”, Proc. Indian Geotechnical Conference, **IGC-99, Calcutta**, pp. 145-147, [**ISBN:81-224-1216-5**]
4. **Choudhary, A.K.** & Verma, B.P.(2000),“Footings on Reinforced Sloped Fills”, Proc. Indian Geotechnical Conference, **IGC-2000; ‘The Millennium Conference’ Mumbai**, pp. 331-332.
5. **Choudhary,A.K.** &Verma, B.P (2001),“Behavior of Footings on Reinforced Sloped Fills” Proc. International Symp. on ‘**Earth Reinforcement**’ 14-16 November, 2001, **Fukuoka, Japan**. pp.535-539,[**ISBN:90 265 1864 1**], [Indexed in Google Scholar].
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11. **Choudhary, A.K.**, **Jha ,J.N & Verma, B.P.** (2009),’ Construction of an Ash Pond with Waste Recycled Product, fly Ash and Locally Available Soil-, A Case Study” Proc. Indian Geotechnical Conference, **IGC 2009, ‘Geotechnics for Infrastructure Development’ Guntur, India**, Vol.1, pp 565-568, [**ISBN:978-81-8424-544-8**],[Indexed in Research gate net]
12. **Choudhary,A.K.**, **Jha,J.N & Gill,K.S.**(2010),”Utilization of Plastic Wastes for Improving the Sub-grades in Flexible Pavements” Proc. **GeoSanghai 2010**, ASCE Geotechnical Spl. Publication ‘ **Paving Materials & Pavement analysis**’ No.203, pp320-326, [**ISBN:9780784411049**], [Indexed in Research gate net].
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15. **Choudhary,A.K.**, **Jha, J.N & Gill, K.S.**(2010),“Shear Strength characteristics of Fiber Reinforced Fly Ash” Proc Indian Geotechnical Conference, **IGC-2010, Mumbai**, Vol. II , PP.583-586, [**ISBN 978-0230-33211-9**]
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17. **Choudhary, A.K.**, **Gill,K.S. & Jha,J.N** (2011),“Improvement in CBR Values of Expansive Soil Subgrades Using Geosynthetics” Proc. Indian Geotechnical Conference, **IGC-2011, Kochi**, PP.569-572, [Indexed in Academia.edu.documents(Google Scholar)]

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19. Gill,K.S, Kaur, A, **Choudhary, A.K.**, & Jha, J.N (2011), “Numerical Study Of Footing On Single Layer Reinforced Slope” Proc. Indian Geotechnical Conference, **IGC-2011, Kochi** , PP.839- 842, [*Indexed in Academia.edu.documents(Google Scholar)*]
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22. **Choudhary, A.K.**, Gill,K.S, Jha,J.N & Shukla, S.K.,(2012),”Improvement In CBR of The Expansive Soil Subgrade with A Single Reinforcement Layer” Proc. Indian Geotechnical Conference, **IGC-2012, New Delhi**, 13-15, Dec. 2012, Vol. I, pp 289-292, [*Indexed in Ecu Publications 2012*]
23. Shukla,S.K., Jha,J.N.Gill,K.S.& **Choudhary,A.K.**,(2012),” Estimation Of Field Compaction Parameters” Proc. Indian Geotechnical Conference, **IGC-2012, New Delhi**, 13-15, Dec. 2012, Vol. II, pp 668-671, [*Indexed in Ecu Publications 2012*]
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26. **Choudhary, A.K.**, J.N.Jha, K.S.Gill and S.K. Shukla (2014)"Utilization of Fly Ash and Waste Recycled Product Reinforced With Plastic Waste As Construction Material in Flexible Pavement" ‘**Geo-characterization and Modeling for sustainability**’, **Geo-Congress 2014**, ASCE, GSP 234,**Georgia, USA**.23-26 February, 2014, pp 3890-3902 [ISBN (print): **978-0-7844-1327-2**] , [*Indexed in Geo-Congress 2014 (ASCE)*]
27. Jha, J.N., Gill, K.S., **Choudhary, A.K.** and Shukla, S.K. (2014) “Effect of Fiber Content on Stress-Strain Behaviour of Reinforced Rice Husk Ash” Proc. (CD-Rome), Indian Geotechnical Conference,**IGC-2014, Kakinada**, 18-20 Dec., 2014.
28. **Choudhary, A.K, Roy, Nimisha and Sinha, A.K** (2014) “CBR Behaviour of Waste Plastic Strip-Reinforced Stone Dust” Proc. (CD-Rome), Indian Geotechnical Conference, **IGC-2014, Kakinada**, 18-20 Dec., 2014.
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34. J.N. Jha, S.K. Shukla, **A.K. Choudhary**, K.S. Gill & B.P. Verma (2017), "Stress-Strain Behaviour of Sand with Disc Plate Shaped Reinforcement" Proc.1st GeoMEast International Congress and Exhibition, Egypt 2017 on **'Sustainable Civil Infrastructures'** pp. 29-38, DOI 10.1007/978-3-319-63570-5_3./ [*Indexed in GeoMEast 2017 (springer)*].
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37. **Choudhary, A.K,** Prakash, U and Shukla, S.K, (2017) "Load Tests on Strip Footing Resting on Prestressed Geotextile-Reinforced Ferrochrome Slag" Proc. (CD-Rome), Indian Geotechnical Conference, **GeoNEst, IGC-2017, , IIT, Guwahati**, 14-16 Dec., 2017, pp. 1-4.
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39. **Choudhary, A.K ,** Kunjumon, B and Jha, J.N (2018)," Improving the Performance of Ordinary Stone Column by Geotextile Encasement" Proc. 'International Symposium on Geotechnics of Transportation Infrastructure, **ISGTI-2018'**, 7-8 April2018, IIT Delhi, India, pp. 684-687.
40. Choudhary, A.K, **Sagarika Das and J, N.Jha , (2018),**" Improvement of Properties of Clay Subgrade Using Waste LDPE Strip Reinforcement" Proc. 'International Conf. on **"Sustainable Waste Management through Design"**,GNDEC, Ludhiana, **2nd -3rd November, 2018**, pp. 103-115.
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43. Kumar Ankit, **Choudhary, A.K.** and Jha, J.N (2018)," Studies On The Behavior Of Encased Granular Piles In Soft Clay Using Bottom Ash" Proc., Indian Geotechnical Conference, **IGC-2018, , II Sc. Bangalore** , 13-15 Dec., 2018, **TH-08-18**,pp. 1-8
44. Mohanty Madhumita, **Choudhary, A.K.** and Kumari Sunita (2018)," A Study on The Behaviour of Multilayered Geocell Reinforced Bottom Ash" Proc., Indian Geotechnical Conference, **IGC-2018, II Sc. Bangalore** , 13-15 Dec., 2018, **TH-09-002** , pp. 1-8.
45. J.N.Jha, **Choudhary A.K,** Shukla S.K. & Gill K.S. (2019),"Tri-axial Behaviour of Steel Fiber-Reinforced Sand" Proc."**Geo-Congress 2019 GSP 309**" **ASCE 2019, 8th International Conference on Case Histories in Geotechnical Engineering**, Philadelphia, Pennsylvania, USA, **March 24-17, 2019**, pp. 363-372, [*Indexed in Geo-Congress 2019 (ASCE)*].
46. **Choudhary, A.K,** Jha, J.N and Fulambarkar, Sujata, (2019) ," Strength and Deformation Characteristics of Bottom-Ash Reinforced with Single Geocell Mattress Made of Waste Pet Bottles" Proc."**Geo-Congress 2019 GSP 312**"**ASCE 2019,8th International Conference on Case Histories in Geotechnical Engineering**. Philadelphia, Pennsylvania, USA, **March 24-17, 2019**, pp.263-272, [*Indexed in Geo-Congress 2019 (ASCE)*].
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C. Publications in National Conferences/Seminars/ Symposium:

1. Verma, B.P., Jha, J.N., **Choudhary, A.K.**, & Singh M.M. (1994) "Construction Management of Rural Roads with Special Reference to Chhotanagpur", All India Seminar on Planning and Construction of Rural Roads with Special Reference to Chhotanagpur / Santhal Pargana, Institution of Engineers, Dhanbad Local Centre, **Dhanbad**, Februray 1994, pp: 1-7.
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4. Verma, B.P., **Choudhary, A.K.** & Jha, J.N. (1995), "Utilisation of Fly ash with Special Reference to Building Blocks and Filling Material", National Conference on 'Fly ash-waste or wealth', October-1995, Thapar Institute of Engg. & Technology, **Patiala**, 27-28 Oct. 1995, pp. 76-84.
5. **Choudhary, A.K.**, Nair, L.U. & Ray, S.P. (1996), "Effect of Sand Percentage on Same Properties of Concrete with Locally Available Aggregates", Proc. National Seminar on 'Role of Engineering Institutions, 'Construction Industry and Building Research Institute in Low Cost Construction', Madhav Institute of Tech. & Sc., **Gwalior**, 22-23 Jan, 1996.
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10. Verma, B.P., **Choudhary, A.K.** and Kumar, S. (1996), "An Experimental Investigation on Blast Furnace-Slag Concrete", Proc. National Seminar on 'Advances in Low & no Waste Technology' Dec. 6-7, 1996, **Jamshedpur**, pp IS.41-IS.49.
11. Kumar, S., **Choudhary, A.K.** & Verma, B.P. (1997), "Workability and Strength Characteristics of Blast Furnace Slag Concrete – An Experimental Investigation" Proc. National Conference on 'Cost Effective Materials and Techniques for Mass Housing', June 27-28, 1997, J.N.T.U. College of Engineering, **Anantapur**, pp. 81-91.
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TESTING & CONSULTANCY UNDERTAKEN:

Sl No.	Details	Period	Organization	Amount [in Lakhs]	Co-Investigator[s], if any	Role
1	Soil investigation for the proposed mining shaft at Krishnagar Project, Mosabani.	July-Sept. 1996	M/s Hindustan Copper Ltd. Mosabani.	0.38	Dr. B P Verma Dr. A. K Choudhary	Co-PI
2	Soil Investigation for the proposed Factory site of M/S Baynee Engg. At Adityapur Industrial Area, Jamsedpur.	Nov.-Dec. 1996	M/S Baynee Engg., Kolkata	0.36	Dr. B P Verma Dr. A. K Choudhary	Co-PI
3	Soil investigation for the proposed multistory building complex at Bistupur, Jamsedpur.	Dec 1996-Jan. 1997	M/s Kanchan Bain Adersara Bistupur, Jamshedpur.	0.31	Dr. B P Verma Dr. A. K Choudhary	Co-PI
4	Soil tests for proposed construction under Bihar Plauto Development scheme.	Feb.-May 1997	Executive Engineer, Minor Irrigation Division, Chaibasa.	0.52	Dr. B P Verma Dr. A. K Choudhary	Co-PI
5	Soil tests for proposed construction under Bihar Plauto Development scheme.	Feb.-May 1997	Executive Engineer, Minor Irrigation Division, Chaibasa.	0.30	Dr. B P Verma Dr. A. K Choudhary	Co-PI
6	Soil test for proposed Tailings Dams at U.C.I.L., Jadugoda Mines (First phase)	Feb.-May 1997	M/S U.C.I.L., Jadugora Mines.	0.43	Dr. B P Verma Dr. A. K Choudhary	Co-PI
7	Soil test for proposed Minor Irrigation project under Bihar Pluto Development Scheme.	March-May, 1997	M/S Minor Irrigation Divn., Chaibasa,	0.32	Dr. B P Verma Dr. A. K Choudhary	Co-PI
8	Soil investigation for the proposed Building Complex of Custom and Excise Deptt., Bistupur, Jamshedpur	March-May, 1997	M/S C.P.W.D., Ranchi	0.43	Dr. B P Verma Dr. A. K Choudhary	Co-PI
9	Soil investigation for the proposed water tower at TELCO works, Jamshedpur	July, 1997	M/S Man Singh	0.25	Dr. B P Verma Dr. A. K Choudhary	Co-PI
10	Soil investigation for the proposed multistoried apartments at Mango, Jamshedpur	Sept., 1997	M/S Perfect Developers, Sonari, Jamshedpur	0.25	Dr. B P Verma Dr. A. K Choudhary	Co-PI
11	Soil test for proposed Slime Dam at Jadugoda Mines.	Sept.-Dec. 1997	M/S TATA STEEL Mines Divn. Noamundi	0.81	Dr. B P Verma Dr. A. K Choudhary	Co-PI
12	Soil investigation for the proposed Residential complex of IOCL at Jamshedpur	Nov., 1997	M/S I.O.C.L., Jamshedpur, branch	0.31	Dr. B P Verma Dr. A. K Choudhary	Co-PI
13	Soil test for proposed approach roads of Adityapur industrial area, Jamshedpur.	Nov., 1997	M/S AIADA, Adityapur, Jamshedpur	0.33	Dr. B P Verma Dr. A. K Choudhary	Co-PI
14	Soil investigation for the proposed foundation for Plano Miller Machine at TELCO works, Jamshedpur.	Feb.-March 1997	M/S Tarapore & Co., Jamshedpur	0.52	Dr. B P Verma Dr. A. K Choudhary	Co-PI
15	Soil test on Tisco soil samples proposed to be used in approach roads for Adityapur bridge project, Jamshedpur.	Feb.-March 1997	M/S KAMPSAX India Ltd. Jamshedpur.	0.12	Dr. B P Verma Dr. A. K Choudhary	Co-PI

16	Soil investigation for the proposed Multistory Building Complex at Sonari, Jamshedpur.	July-Oct. 1998	M/s Nalanda Promoters & Developers, Jamshedpur.	0.26	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
17	Soil test for tailings Dam at U.C.I.L., Jadugora (second phase).	July-Oct. 1998	M/S U.C.I.L., Jadugora Mines.	0.26	Dr. B P Verma Dr. A. K Choudhary	Co-PI
18	Soil investigation for proposed Multistory Apartments at Adarshnagar, Sonari, Jamshedpur.	May-July 1998	M/S Adarsh Grih Nirman Samiti, Sonair.	0.34	Dr. B P Verma Dr. A. K Choudhary	Co-PI
19	Soil investigation for the proposed site of Water Tanks for TCL project at Telco works, Jamshedpur.	Nov. 1998-Jan. 1999	M/S Tarapore & Co. Jamshedpur camp. Office.	0.57	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
20	Soil investigation at centralized paint shop at Telco works, Jamshedpur.	June-July, 1999	M/s Tarapore & Co., Jamshedpur camp. Office.	0.33	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
21	Investigation of building cracks and design of remedial measure for the proposed Health Physics Unit at U.C.I.L., Jadugoda.	Sept.-Oct., 1999	M/s U.C.I.L., Jadugoda Mines.	0.29	Dr. B P Verma Dr. A. K Choudhary & Sri Shailendra Kumar	Co-PI
22	Soil investigation for the proposed multistory building complex at Bistupur, Jamshedpur.	Sept. 1999	M/s Indu consultants, Jamshedpur.	0.29	Dr. B P Verma Dr. A. K Choudhary	Co-PI
23	Soil test for the proposed embankment for a private siding at Jamshedpur.	Jan. 2000	M/s RITES, Tatanagar.	0.07	Dr. A. K Choudhary & Sri A K Sinha	Co-PI
24	Soil test for the proposed multistory apartments at Ramnagar, Sonari, Jamshedpur.	Jan. 2000	M/s Sahara construction, Jamshedpur	0.21	Dr. B P Verma Dr. A. K Choudhary	Co-PI
25	Soil test for proposed I.C.D. of M/s Container Corporation of India at Jamshedpur.	Feb-March 2000	M/s Container Corporation of India Ltd., Jamshedpur.	0.22	Dr. B P Verma Dr. A. K Choudhary & Sri A K Sinha	Co-PI
26	Investigation for the suspected yielding in R.C.C. roof slab of the north cross cut at 555m level at U.C.I.L., Jadugoda.	Dec.99-Feb.2K	M/s U.C.I.L., Jadugoda Mines.	0.21	Dr. B P Verma Dr. A. K Choudhary & Sri Shailendra Kumar	Co-PI
27	Soil investigation for the construction of proposed Silo at Lafarz India Ltd., Jamshedpur.	May-June 2000	M/s Lafarz India Limited, Jamshedpur.	0.33	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
28	Soil investigation for proposed electric towers at Telcon, Jamshedpur.	Jul-00	M/s L & T Jamshedpur camp. Office.	0.37	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
29	Design of remedial measures for the deflected R.C.C. roof slab of the north cross cut at 555m level at U.C.I.L. Jadugoda.	April-Aug., 2000	M/s U.C.I.L., Jadugoda Mines.	0.26	Dr. B P Verma Dr. A. K Choudhary & Sri Shailendra Kumar	Co-PI
30	Soil test for the proposed Ash dike of Tata Hydroelectric Power Co. Ltd. Jamshedpur.	April-Aug., 2000	M/s Tata Hydroelectric Power Company Ltd., Jamshedpur.	0.62	Dr. B P Verma Dr. A. K Choudhary	Co-PI
31	Soil investigation for proposed Auditorium at D.B. M.S. School, Jamshedpur.	Nov., 2000	M/s Tarapore & Co., Jamshedpur camp. office.	0.29	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
32	Soil test for Flyash and Bottom ash from Usha Martin Ltd.	Dec., 2000	M/s Usha Martin Ltd., Jamshedpur.	0.19	Dr. A. K Choudhary & Sri A K Sinha	Co-PI

	Jamshedpur.					
33	Soil test for the proposed Slime Dam at Noamundi.	March - April 2001	Dy. Div. Manager, Mines Div., Noamundi., Tata steel	0.88	Dr. B P Verma Dr. A. K Choudhary	Co-PI
34	Design of remedial measures for Sump Wall at 140m level at Narwapahar.	Nov-99 June-2000	Adl. Supdt. (Civil), U.C.I.L. Nawapahar.	0.17	Dr. B P Verma Dr. A. K Choudhary & Sri Shailendra Kumar	Co-PI
35	Soil investigation and Design of twin Bunkers with connected retaining Walls at Nawapahar.	March - April 2001	U.C.I.L. Narwapahar	0.56	Dr. B P Verma Dr. A. K Choudhary & Sri Shailendra Kumar	Co-PI
36	Soil investigation for Addl. District Judge Court Complex at Seraikella.	Nov.-Dec. 2000	M/s Executive Engineer, PWD, Chaibasa.	0.32	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
37	Soil test for Raising of III rd Stage Tailing Dam from R.L. 140 M to 145 M at U.C.I.L., Jadugoda.	May-June, 2001	M/s G.M. (Mill), U.C.I.L. Jadugoda	1.20	Dr. B P Verma Dr. A. K Choudhary	Co-PI
38	Soil test and Recommendation for Alternative Sections of Proposed Ash Pond Dyke for Jojobera Thermal Power Plant, Jamshedpur.	May-Aug., 2001	M/s Tarapore & Co. Ltd. Jamshedpur Camp Office	0.57	Dr. B P Verma Dr. A. K Choudhary	Co-PI
39	Soil investigation for the Proposed Hostel Building in the Premise of Pilot Plant of NML, Jamshedpur.	Jan-March, 2002	M/s N.M.L., Jamshedpur	0.40	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
40	Soil test for Proposed Road Construction Under PMGSY Scheme under R.E.O., Jamshedpur Division.	Aug.-Oct., 2002	M/s K.K. Builders, Jamshedpur	0.37	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
41	Soil Test for construction of Cricket Pitch at Keenan Stadium, Jamshedpur	Aug.-Sep., 2002	M/s Bihar Cricket Association, Jamshedpur	0.03	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
42	Soil investigation at the Proposed Site of Oxygen Plant of B.O.C. India Ltd. inside Tata Steel Works (Near L-Town Gate)	Nov.2002-Jan.2003	M/s B.O.C. India Ltd., Calcutta.	0.38	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
43	Soil test for Proposed Road Construction Under PMGSY Scheme under R.E.O., Jamshedpur Division.	Sept.2002-Jan.2003	M/s Morwan Construction Pvt. Ltd. Jamshedpur.	0.24	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
44	Soil test for Proposed Road Construction Under PMGSY Scheme under R.E.O., Jamshedpur Division.	Sept.2002-Jan.2003	M/s Triveni Enterprises, Chakradharpur.	0.18	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
45	Soil investigation at the Proposed Site of 100 TPD Sponge Iron Plant of M/s ASL Iron&Steel Co. Pvt. Ltd. Jsr. near Balrampur (W.B).	March-April, 2003	M/s ASL Iron & Steel Co. Pvt. Ltd. Jamshedpur.	0.44	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI

46	Soil investigation at the Proposed Site of 100 TPD Sponge Iron Plant of M/s Sai Sponge Pvt. Ltd. Patna, at Jhinkpani, W. Singhbhum.	April-May, 2003	M/s Sai Sponge Pvt. Ltd. Patna	0.50	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
47	Soil investigation at the proposed site of 100 TPD Sponge Iron Plant of M/s Kewal Metaliks, at Chowaka, W. Singhbhum	Oct.-Nov, 2003	M/S Kewal Metaliks, Jamshedpur	0.36	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
48	Soil investigation for the proposed School of M/S Tarapore & Co. at Jamshedpur.	Jan'20 04	M/S Tarapore School, Jamshedpur	0.31	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
49	Soil investigation for the proposed Blast furnace Plant under extension programme of M/S Tayo Rolls Ltd, Jamshedpur.	March-2004	M/S Tayo Rolls Ltd. Gamaharia, Jamshedpur	0.44	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
50	Soil investigation for the proposed School Buildings at Kasidih, Jamshedpur	May-June, 2004	M/S Dilip Kumar Singh, Kasidih, Jamshedpur	0.44	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
51	Soil investigation for the proposed multistoried residential complex at Adityapur, Jamshedpur.	Oct.-Nov., 2004	M/S Balaji constructions, City Palace complex, Adityapur	0.42	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
52	Soil investigation work at proposed site of 200 TPD Sponge Iron Plant of M/s Vallabh Steels Ltd. At Gamaharia, Jamshedpur.	Oct.-Nov., 2004	M/s Vallabh Steels Ltd. Ludhiana	0.50	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
53	Soil Investigation for the Proposed Multistoried Residential Complex at Adityapur, Jamshedpur.	Jan-Feb, 2004	M/s Dr. Arun Kumar	0.31	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
54	Soil Investigation for the Proposed Extension of the School Building of Narbheram Hansraj English School, Bistupur, Jamshedpur.	Nov-Dec., 2004	M/s Nurbheram Hansraj English School, JSR	0.39	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
55	Soil Investigation for the Proposed Multistoried Apartments at, Bistupur, Jamshedpur.	Nov-Dec., 2004	M/s Shiv Shankar enterprises, Jamshedpur	1.05	Dr. B P Verma Dr. A. K Choudhary	Co-PI
56	Sub Soil Investigation for the proposed TATA Growth Shop Expansion at Gamharia, Jamshedpur.	May-June., 2005	M/s Tayo Rolls Ltd., Jamshedpur	1.05	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
57	Soil Investigation work for the Proposed Hotel Indione at Bistupur, Jamshedpur.	May-June., 2005	M/s Roots Corporation Ltd., Mumbai	0.50	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
58	Soil Investigation for the Proposed Factory Building of Solution Centre" at Tinplate Company of India Ltd., Jamshedpur.	June, 2005	M/s Trans Tech. Turnkey Pvt. Ltd., Pune	0.25	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
59	Soil Test for the proposed Tailing Dam at Turamdih Project of U.C.I.L., Jadugoda.	June-Sept, 2005	M/s U.C.I.L. Jadugoda	1.28	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI

60	Soil Test for the proposed Tailing Dam at Turamdih Project of U.C.I.L., Jadugoda.	Jan.-April 2006	M/s U.C.I.L. Jadugoda	1.04	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
61	Soil Test for the proposed Tailing Dam at Turamdih Project of U.C.I.L., Jadugoda.	Jan.-April 2006	M/s U.C.I.L. Jadugoda	1.00	Dr. B P Verma Dr. A K Khan & Dr. A. K Choudhary	Co-PI
62	Evaluation of physical parameters of soil & aggregate samples and field CBR test for the proposed C.C approach road and truck parking area at ICD, Jamshedpur.	Jan.-April 2006	M/s RITES, Tatanagar.	0.48	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
63	Evaluation of physical parameters of soil & aggregate samples and field CBR test for the proposed C.C approach road and truck parking area at ICD, Jamshedpur.	Jan.-April 2006	M/s Sapoorji Paloonji Tatanagar.	0.23	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
64	Soil Investigation work for the Proposed Expansion of HVAL plant of Tata Motors, Jamshedpur	June., 2006	M/sAkriti Architects,Jsr.	2.33	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
65	Soil Investigation work for the Proposed Iron melting plant at phase VI Gamharia, Jamshedpur.	May-June., 2006	M/s Sai construction, Jamshedpur.	1.12	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
66	Design of Foundation, Columns, Beams and Gantry Girder of Crane at Chemical House of Mills, Jadugoda Mines, UCIL Jadugoda	June-Oct., 2006	UCIL Jadugoda	0.41	Dr. B P Verma Dr. A K Khan Dr. A. K Choudhary & Sri Shailendra Kumar	Co-PI
67	Soil Investigation work for the Proposed (i) construction of foundation for waterfall at 109.118 km at Chandil left canal (ii) Railway Bridge No.86 at km 184/5-8 for the crossing of Chandil left canal.	Dec. 2006	M/s Executive Engineer, Subernrekha Multipurpose Project.	4.32	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
68	Soil Test for the Tailing Dam (2 nd phase) at Turamdih Project of U.C.I.L., Jadugoda	Dec. 2006	M/s U.C.I.L. Jadugoda	2.42	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
69	Soil Investigation work for the Proposed Multistoried Apartments at Sonari, Jamshedpur.	Feb., 2007	M/s Gauri Associates,Jsr.	0.96	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
70	Soil Investigation work for the Proposed Multistoried complex at Mango, Jamshedpur.	April, 2007	M/s ASL,Fortunes Pvt. Ltd.Jsr.	1.43	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
71	Soil Investigation work for the Proposed construction of Aqueduct	July 2007	M/S Executive Engineer, Minor Division, No. 12, Mango, Jsr.	1.05	Dr. A K Khan & Dr. A. K Choudhary	Co-PI

72	Soil Investigation for the Proposed Multistoried Shopping Complex at, Bistupur, Jamshedpur.	Dec.-2007-Jan.2008	M/s Vineet Sinha & Architects Jamshedpur	3.25	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
73	Soil Test for the proposed Tailing Dam at Turamdih Project of U.C.I.L., Jadugoda	Dec.-2008-Jan.2009	UCIL Jadugoda	0.60	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
74	Soil Investigation for the Proposed Multistoried Complex at 5 J Road Bistupur, Jamshedpur.	Dec.2007-Jan.2008	M/s Vineet Sinha & Architects	0.78	Dr. A K Khan & Dr. A. K Choudhary	Co-PI
75	Soil Investigation work for the Proposed Multistoried Complex at Plot No. NEW PL.403 at 5J Road, Bistupur, Jsr.	May-June 2010	M/S Bombay Tower, Bistupur, Jsr.	0.79	Dr. A. K Choudhary Dr. A.K.Sinha	Co-PI
76	Soil Test for the Tailing Dam at Turamdih Project of U.C.I.L., Jadugoda	June 2010	M/s U.C.I.L. Jadugoda	0.04	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
77	Soil Test for the Tailing Dam at Turamdih Project of U.C.I.L., Jadugoda	Jan.'2011	M/s U.C.I.L. Jadugoda	1.17	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
78	Soil Test for the proposed Tailing Dam (Eastern side) at Turamdih Project of U.C.I.L., Jadugoda	March-2011	M/s Kew Construction Pvt Ltd, Ghatsila , Jharkhand	0.71	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
79	Soil Test for the proposed Tailing Dam (Western Side) at Turamdih Project of U.C.I.L., Jadugoda	April-2011	M/s P.K.Agarwal, East Singhbhum, Jharkhand	0.71	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
80	Evaluation of soil parameters for filling work at different locations of Galudih Right Main Canal	May-11	Executive Engineer, Div. No.-1, Mosaboni	0.79	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
81	Soil Investigation for the Proposed Foundations for Head gear Frame, Winder House at Mohuldih Mines , U.C.I.L	May-11	Dy. G.M (Mines), Tuamdih Project, U.C.I.L	2.00	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
82	Field control of compaction of slag filling for the construction of WTP at Tata Steel, Ltd. Jamshedpur	Aug. 2011	M/S Voltas Limited, Kolkata	0.76	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
83	Soil Test for Tailing Dam (Westernt Side) at Turamdih Project of UCIL Jadugoda	July-Aug.2013	M/s P.K.Agarwal, East Singhbhum, Jharkhand	0.71	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
84	Soil Test for Tailing Dam (Easternt Side) at Turamdih Project of UCIL Jadugoda	July-Aug.2013	M/s Kew Construction Pvt Ltd, Ghatsila , Jharkhand	0.71	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
85	Soil Test for construction of Ambankmend at Tata Joda East Direct Entry Siding	March-April 2014	M/s RITES Ltd., Jsr	0.07	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
86	Siol Test for Blankating Material at Tata Joda East Direct Entry Siding	March-April 2014	M/s RITES Ltd., Jsr	0.07	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
87	Soil Test for the proposed Aquaduct at Km 4.350 of Rahabasa Distributory Ex. Km 115.90 from CLMC	Nov. -Dec. 2014	Executive Engineer, M.D.Div-10, Ghatsila, JSR	5.26	Dr. A. K Choudhary Dr. A.K.Sinha	As PI

88	Soil Test for Road Construction of JRPICL, Ranchi	March-April 2014	M/s JRPICL, Ranchi	0.08	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
89	Soil test for suitability of Fly Ash for Construction of Roads by Tata Sponge Iron Limited	May-June 2014	M/s Tata Spong Iron Limited, Odisha	0.10	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
90	Proof Checking of the Design & Drawing of HHP Diesel Locomotive Shed at Barauni	July-Aug. 2014	M/s Ram Kripal Singh Construction Pvt. Ltd. , Ranchi	4.50	Dr. A. K Choudhary Dr. Virendra Kumar Dr. Prahlad Prasad	As PI
91	Soil Investigation for the proposed Apartment at 174 , Dihibari, Bagaan area, Sakchi, Jamshedpur	July-Aug. 2014	M/s Sun N Dew Projects(P) Ltd., Jamshedpur	1.00	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
92	Soil Test for Dam Filling at Satnala Dam under SMP, Jamshedpur	Nov. -Dec. 2014	Executive Engineer, M.D.Div-3, Mango, JSR	1.64	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
93	Sub-Soil Investigatin for the proposed Aqueduct Pier No.1 at Icha Right Main Canal	Sept.-Oct.2014	Executive Engineer, M.D.Div-4, Galudih	1.08	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
94	Test for suitability of Soil for proposed Road constructionfor Chaibasa- Kandra- Chowka Road of Jharkhnad.	Jan.-Feb. 2015	M/s GKC Project Ltd., GKCPCL Camp, Kandra	0.13	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
95	Sub-Soil Investigation for the proposed Railway Siding at Banspani Railway Station under CKP Division	March-April 2015	M/s Tata Steel Joda	9.89	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
96	Sub-Soil Investigation for the proposed Construction of WTP at HUDCO Park of Chhota Govindpur, Jamshedpur	July-Aug. 2015	M/s The Manager CGB-DWSPL AJV Company of IL & FS,Chennai	2.34	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
97	Sub-Soil Investigation for the proposed Construction of ELSR at Haludboni, Gadhra, Sarjamda and Chhota Govindpur , Jamshedpur	July-Aug. 2015	M/s The Manager CGB-DWSPL AJV Company of IL & FS,Chennai	5.56	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
98	Sub-Soil Investigation for the proposed Construction of ELSR at Persidih, Matladih, Kitadih and Karandih, Jamshedpur	Oct.-Dec. 2015	M/s The Manager CGB-DWSPL AJV Company of IL & FS,Chennai	5.56	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
99	Soil test for suitability of soil for proposed Road construction	Feb.'2016	M/S Asstt. Div. Engineer, S/E Railway,	0.07	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
100	Sub-Soil Investigation for the proposed Construction of WTP behind Ghaghidih Jail, Bagbera, Jamshedpur	Oct. -Dec. 2016	M/s The Manager CGB-DWSPL AJV Company of IL & FS,Chennai	2.34	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
101	Feasibility Study for Use of Ferrochrome Slag in Construction/Road	Aug.2016-Nov. 2017	R& D Development Department, Tata Steel Limited, Jamshedpur	13.59	Dr. A. K Choudhary Dr. B.K.Prasad	As PI
102	Sub-Soil Investigation for the proposed Construction of ELSR at Persudih of Chhota Govindpue, Jamshedpur	Nov. -Dec. 2017	M/s The Manager CGB-DWSPL AJV Company of IL & FS,Chennai	1.60	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
103	Soil Investigation for the Construction of Transmission Towers on river crossing of	Nov.- Dec. 2017	M/s A k Das Associates Ltd, Bhubaneswar, Odisha	5.09	Dr. A. K Choudhary Dr. R.P.Singh Dr. A.K.Sinha	As PI

	220kv Daltonganj- Garhwah Transmission line in Jharkhnad					
104	Testing of local Moorum & Grading II material stabilized with varying % of Cement	Nov. -Dec. 2017	M/s The Executive Engineer, RDD (RDA), Works Division, Jamshedpur	1.50	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
105	soil test for the proposed construction of Railway Embankment of 3 RD Line Kharagpur-Adityapur.	April-May 2018	The Sr. Manager Rail Vikas Nigam Limited Kolkata Project Implementation Unit	0.83	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
106	Soil Test for “Restoration and Strengthening of Ash dyke-2” package for PUVN (Patratu)	Jan.-Feb. 2019	Additional General Manager (Field Quality Assurance Dept.) PVUN, Patratu	0.53	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
107	Soil test on sand sample	Jan. 2019	ProjectManager KBCP-Jamshedpur	0.07	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
108	Soil Test for SURU Reservoir Turnkey Construction project	April-May 2019	M/S Vashistha Construction Pvt. Ltd, Hyderabad	1.29	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
109	Soil Test for proposed Railway Siding under ‘NUVOCO VISTAS CORPORATION LIMITED ‘near Jojobera cement Plant	June-July 2019	M/S Picsona Enterprises Kolkata-54	0.24	Dr. A. K Choudhary Dr. A.K.Sinha	As PI
Total:				118.89 Lakhs		