

## Bio Data

1.	Name in full	:	<b>Dr. Partha Ghosh</b>
2.	Present designation	:	<b>Associate Professor of Construction Engg. Department, Jadavpur University. Kolkata-7000106.</b>
3.	Date of birth	:	19.06.1978
4.	Sex	:	Male
5.	Full communication Address (with phone no.)	:	Construction Engineering Department, Jadavpur University, Salt-Lake Campus, Kolkata-700098. Phone :09433112189/09830976189.E-mail : <a href="mailto:parthaghosh.const@jadavpuruniversity.in">parthaghosh.const@jadavpuruniversity.in</a>
6.	Academic Qualifications	:	<b>B.E(Civil). M.E(Structural Engg) &amp;Ph. D. (Structural Engineering)from Jadavpur University.</b>
7.	Experience Profile		<b>2005 to till date: Assistant-Associate Professor in Construction Engineering Department of Jadavpur University Kolkata.</b>
8.	Research publications	:	“Effects of Microorganism in concrete” International Symposium on “Advances in Concrete through Science and Engineering” held <b>at Evanston, USA, 2006</b> organized by ACBM
			Effects of Microorganism in concrete International Symposium on “Self Healing material of Concrete” held at <b>Delf, Netherland 2007</b> organized by Delf Technical University <b>Netherland.</b>
		<b>1</b>	<b>Ghosh P.,Mandal S., Chattopadhyay B.D., Pal S.,</b> Use of microorganism to improve the strength of cement-Sand mortar. <i>Proceeding of International Conferenceon Advances in Concrete And Construction,ICACC-2004</i> , 16-18 December <b>2004</b> , Hyderabad, India, pp. 983-988.
		<b>2</b>	<b>Ghosh P.,Mandal S., Chattopadhyay B.D., Pal S.,</b> Use of microorganism to improve the strength of cement mortar. <i>Cement and Concrete Research</i> . Vol.35 (10) ( <b>2005</b> ), pp 1980-1983.
		<b>3</b>	<b>Ghosh P.,Mandal S., Pal S., Bandyopadhyay G. and Chattopadhyay B.D.,</b> Development of bioconcrete material using an enrichment culture of novel thermophilic anaerobic bacteria. <i>Indian Journal of Experimental Biology</i> , Vol. 44( <b>2006</b> ), pp.336-339.

		<b>4</b>	<b>Ghosh P.</b> , Mandal S., Chattopadhyay B.D., Effect of addition of microorganisms on the strength of concrete. <i>Indian Concrete Journal</i> , Vol.80 (4)(2006), pp.45-48.
		<b>5</b>	Ravindra N Thakur, <b>Dr. Partha Ghosh</b> , Dr. Somnath Ghosh, " Investigation on Thermal; Behavior of Fly ash based Geopolymer Binder" ICI-Innovative World of Concrete-08" held at New Delhi.
		<b>6.</b>	S Thokchom, <b>P. Ghosh</b> and S. Ghosh, Acid resistance of Fly ash based Geopolymer mortars, <b>International Journal of Recent Trends in Engineering, Vol.1 No.6 May 2009.</b>
		<b>7.</b>	S Thokchom, <b>P. Ghosh</b> and S. Ghosh, "Resistance of Fly-Ash Based Geopolymer Mortar in Sulphuric Acid", <b>ARPJ Journal of Engineering and Applied Science, Vol4, No.1, Feb-09</b>
		<b>8.</b>	S Thokchom, <b>P. Ghosh</b> and S. Ghosh, "Effect of Na <sub>2</sub> O Content on Durability of Geopolymer Mortars in Sulphuric Acid", <b>International Journal of Natural Science and Engineering. Vol.2 Feb 2009</b>
		<b>9.</b> <b>10.</b>	S Thokchom, <b>P. Ghosh</b> and S. Ghosh, "Effect of Na <sub>2</sub> O Content on Durability of Geopolymer Mortars in Sulphuric Acid", <b>International Journal of Applied Engineering Research, ISSN0973-4562, Vol4, No. 11(2009)PP,1969-1977.</b>  S Thokchom, <b>P. Ghosh</b> and S. Ghosh, " Effect of water absorption, porosity and sorptivity on durability of Geopolymermortar", <b>ARPJ Journal of Engineering and Applied Science, Vol4, No.7, Sept-09, PP,28-32</b>
		<b>11.</b>	S Thokchom, <b>P. Ghosh</b> and S. Ghosh, <i><b>Durability of fly ash Geopolymer Mortars in nitric acid – Effect of alkali (Na<sub>2</sub>O) Content- accepted for publication in Journal of Civil Engineering and Management (ISSN 1392-3730 print / ISSN 1822-3605 online), 2011 volume 17(3):393-399. Lithuania.</b></i>
		<b>12.</b>	S Thokchom, <b>P. Ghosh</b> and S. Ghosh, "Effect of Na <sub>2</sub> O content on Durability of Geopolymer pastes" <i>IN Canadian Journal of Civil Engineering</i> IN 2011, Manuscript ID: 2011-0015.R1 CANADA..
		<b>13.</b>	D. Dutta, S Thokchom <b>P. Ghosh</b> and S. Ghosh, " <b>Effect of Silica Fume additions on porosity of Fly ash Geopolymers</b> " <b>ARPJ Journal of Engineering and Applied Science, Vol.5, No.10, Oct-10</b>  <b>14.</b> S Thokchom, <b>P. Ghosh</b> and S. Ghosh "Strength and Durability of Fly Ash Based Geopolymer Based exposed to Acid" LAMBERT PUBLICATION, ISSN 378-3-8465-8765-0, 2012.  <b>15.</b> <b>P. Ghosh &amp; K. Ghosh</b> "Effect of Na <sub>2</sub> O/Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> And W/B Ratio on Setting Time And Workability of Flyash Based Geopolymer" International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com Vol. 2, Issue4, July-August 2012, pp.2142-2147

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|  |  | <p>16. <b>P. Ghosh&amp; K. Ghosh</b> “EFFECT OF SYNTHESIZING PARAMETERS ON COMPRESSIVE STRENGTH OF FLYASH BASED GEOPOLYMER PASTE” .International Journal of Structural and Civil Engineering.ISSN : 2277-7032 Volume 1 Issue 8 (August 2012).</p> <p>17. <b>P. Ghosh&amp; K. Ghosh</b>, “Effect of %Na<sub>2</sub>O and %Sio<sub>2</sub> on Apperent Porosity And Sorptivity of Flyash Based Geopolymer” JOSR (Journal of Engineering JEN). ISSN 2250-3021, Volume -2, issue 8(August 2012), pp96-101</p> <p>18.S Thokchom, <b>P. Ghosh</b> and S. Ghosh “Sorptivity of Fly ash Based Geopolymer Pastes and Mortars” <b>WULFENIA JORNAL, Klagenfunt, Austria ,ISSN:1561-882X. Vol.19.No.10.Oct.2012.</b></p> <p>19. <b>Partha Ghosh</b>, Mitul De Mazumder, Surin Guha Thakurta “DIN Permeability Test and Effect of Concentration of Alkali on the Water Penetrability of Geopolymer Mortar” <b>International J. Technology</b>, July-December 2015, Vol.5, Issue 2, Page No. 177-180</p> <p>20. <b>Partha Ghosh</b>, Mitul De Mazumder, Surin Guha Thakurta “Comparative Study on Durability of Fly Ash Based Geopolymer Mortars in Sulphuric Acid and Nitric Acid.” <b>International J. Technology</b>, July-December 2015, Vol.5, Issue 2, Page No. 177-180</p> <p>21.Mitul De Mazumder , <b>Partha Ghosh</b>, “Effect of Blust Furnace Slag and Concentration of Sodium Hydroxide on Different Parameters of Fly Ash Based Geopolymer Mortar.” <b>American Research Thoughts , Febuary 2016</b>, Vol.2, Issue 4, Page No. 3583-3593</p> <p>22. <b>Partha Ghosh</b>, Pronoy Roy Chowdhury “ A critical Study of seismic behavior of RC elevated water tanks on Shafts Type of Staging System”. <b>International Journal of Engineering Research and Science and Technology</b>, February 2017, Vol.6, No.1 Page No. 65-84.</p> |
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|  |  | <p>23. <b>P. Ghosh &amp; K. Ghosh</b> “Effect of Alkali Concentration on Mechanical Properties, Microstructure, Zeta Potential and Electrical Conductivity of Thermally Cured Flyash Blast Furnace Slag Based Blended Geopolymer Composites” Oriental Journal of Chemistry ISSN: 0970-020 www.orientchem.org Vol. 34, Issue 2</p> <p>24. <b>P. Ghosh &amp; K. Ghosh</b> “Effect of variation of slag content on chemical, Engineering and microstructural properties of thermally cured fly ash-slag based Geopolymer composites” Rasayan Journal of Chemistry ISSN: 0974-1496 www.rasayanjournal.com.</p> <p>25. <b>P. Ghosh &amp; P. Roychowdhury</b> “ A critical Review of Comparative Seismic Behaviour of R.C Shaft Supported Elevated Water Tanks and Chimney” Accepted for publication of Journal of Structural Engineering (CSIR-SERC) in August 2018.</p> <p>26. <b>P. Ghosh &amp; K. Ghosh</b> -Influence of Fineness of Slag Particles on the Mechanical Properties and Microstructural Aspects of Fly Ash- Slag Based Blended Geopolymer Composites, <i>International Conference on Advances in Construction Materials and Structures (ACMS-2018) IIT Roorkee, Roorkee, Uttarakhand, India, March 7-8, 2018.</i></p> <p>27. <b>P. Ghosh &amp; K. Ghosh</b> - Effect of variation of slag on microstructure and engineering properties of water cured fly ash-slag based Geopolymer composites, <i>International Conference on Composite Materials and Structures- ICCMS 2017, Hyderabad, 27-29th December 2017</i></p> <p>28. <b>P. Ghosh, K Ghosh, B. Paul-</b> <i>Use of Stone Dust as an Alternative Fine Aggregate Material in Concrete. Proceedings of 2<sup>nd</sup> International Conference on Frontiers In Engineering, Applied Sciences and Technology, 27-28 April, NIT, Tiruchirappalli.</i></p> <p>29. <b>P. Ghosh, K Ghosh, B. Paul,</b> “Effects of Higher Percentage of Stone Dust Used as a Fine Aggregate in Concrete and Variation of Strength due to the Variation of Cement Content and W/C ratio” has been accepted for publication in the Asian Journal of Engineering and Applied Technology , Vol.7, No. 2, Jul-Dec 2018.</p> |
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			<p><b>30. P. Ghosh, K. Ghosh</b> “Effect of variation of sodium silicate content on microstructure and mechanical properties of thermally cured fly ash-slag based Geopolymer composites”. Research Journal of Chemistry and Environment August 2018.</p> <p><b>31. P. Ghosh &amp; P.Roychowdhury</b> “Review of Buckling Capacity of Reinforced concrete thin Shell Shaft staging of Elevated Water Tanks”. International Journal of Technical Innovation in Modern Engineering &amp; Science (IJTIMES) , MF 5.22, e-ISSN: 2455-2585, Volume 4, Issue 10, October -2018.</p> <p><b>32. Kushal Ghosh and Partha Ghosh</b>, “Influence of Curing Temperature on the Mechanical Properties and Microstructural Aspects of Fly Ash- Slag Based Blended Geopolymer Composites”, SEC18: Proceedings of the 11th Structural Engineering Convention - 2018, Jadavpur University, Kolkata, India, December 19 - 21, 2018</p> <p><b>33. P. Ghosh &amp; P.Roychowdhury</b> “A critical review of structural Rehabilitation strategy of earth quake damaged RC Elevated water tank on shaft type staging” Proceeding International Conference On digester Risk Mitigation , Dhaka Bangladesh, September 23-24,2017.</p> <p><b>34.P.Ghosh</b> ... and others Use of Brick Klin Dust as a supplementary material for fine aggregate in concrete. COAST-2019, NIT SILCHOR.</p> <p><b>35. P.Ghosh</b> ... and others, A Brief Review of the Effect of Mineral admixtures on the Properties of Alkali Activated Composites. COAST-2019, NIT SILCHOR.</p> <p><b>36. P.Ghosh</b> ... and others Replacement of Sand with Stone Dust as a Fine Aggregate in Concrete. COAST-2019, NIT SILCHOR.</p> <p><b>37. P. Ghosh &amp; A.A. Laskar</b> “Sulphuric acid durability Studies of concrete with Portland cement (CEM-I), Portland Composite cement of different types (CEM-II/A-M &amp;CEM-II/B-M) &amp; partial replacement of Portland cement with different types of pozzolonic materials” International Research Journal of Engineering and Technology (IRJET), <b>Volume: 06 Issue: 04   Apr 2019</b></p>
9.	<b>Research Guidance</b>	:	<p><b>A. Ph.D Scholars (2+3)</b></p> <p>1.“<b>Strength and Durability of fly ash Based Geoployper Concrete</b>” of Mr. <b>Thockchom Suresh Singh</b> on 14.03.2008 and completed his Ph.D in the year 2011.</p> <p>2. <b>Kushal Ghosh</b> completed his Ph.D in the year November 2018 On the Topic of Engineering Properties and</p>

			<p>Durability of Fly Ash Based Geomolymer Composite.</p> <p>3. <b>Abdullah Ahmed Laskar</b> Registered his Ph.D in the year <b>April 2016</b> On the Topic "<b>Durability of Concrete Structures against Environmental Loading/Effect</b>"</p> <p>4. <b>Pronoy Roy Chowdhury</b> Registered his Ph.D in the year <b>August 2016</b> On the <b>A critical study of seismic behavior of R.C Elevated water tanks on Shafts type of staging system.</b></p> <p>5. <b>Victor Chatterjee</b> has Registered his PhD on <b>20.06.2017</b> on topic on “ <b>Study of Mechanical Properties and Durability of Blended Alkali Activated Composites</b>”</p> <p><b>B. Master Degree Thesis Guidance</b></p> <p>1. <b>Pradipta Roychowdhury</b> has completed his master degree in the year <b>2016</b> in the topic of “Plasticizer Alkali activated Blast Furnace Slag Paste.</p> <p>2. <b>Raj Sekhar Naskar</b> has completed his master degree in the year 2015 in the topic of “Parametric Studies on Compressive Strength and Durability of Fly Ash Based Geopolymer Mortar.</p> <p>3. <b>Soumendu Ojha</b> has completed his master degree in the year 2016 in the topic of “Use of Rice Ash in Mortar to improve the properties of concrete”</p> <p>4. <b>Rama Pramanick</b> has completed her master degree in the year 2017 in the topic of " Use of RECRON 3S FIBRE TO IMPROVE THE PROPERTIES OF CONCRETE ALONG WITH CRACK ASSESSMENT OF ANCIENT &amp; NEW STRUCTURE AND ITS REMEDIAL TECHNIQUE.</p> <p>5. <b>SUTRIPA DEY</b> has completed her master degree in the year 2017 in the topic of “STRENGTH ASSESSMENT OF BITUMINIOUS ROAD WORK USING SYNTHETIC FIBRE.</p> <p>6. <b>Bikrom Paul</b> has Completed his Masters of Construction Engineering on “Experimental Study of a Sustainable Concrete using stone dust as a partial replacement of Sand” in the year 2018</p> <p>7. <b>Khokan Kumar Paul</b> has Completed his Masters of Construction Engineering on “Comparative Study of strength and durability assessment of different types of sustainable concrete with Acid Exposure”. in the year 2018.</p> <p>8. <b>Pintu Kumar Das</b> is doing Masters of Construction Engineering on” Effect of Replacement of Fine aggregate by Blast Furnace Slag on the properties of Concrete in the year 2018</p>
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			<p>9.<b>Dipak Hazari</b> has completed doing Masters of Construction Engineering on “Concrete with Sustainable and Eco friendly technology by using the Brick-Klin Dust” in the year 2018</p> <p>10.<b>Ruma Halder</b> –Study of Sulphate Resistance of Sustainable Blended Concrete for the 2018-2019 session</p> <p>11.<b>Arnab Mondal</b>- Effect of Graphene Oxide on the Fresh and Hardened Cement Mortar for the 2018-2019 session</p> <p>12.<b>Sourav Dey</b> -Study of Acid Resistance of Sustainable Blended Concrete for the 2018-2019 session</p> <p>13.<b>Santonu Roy</b> -<b>EXPERIMENTAL STUDY OF DURABILITY OF MORTAR USING ALTERNATIVE BUILDING MATERIAL.</b></p>
a.	<b>Project Supervised</b>	:	Durability of High Performance Concrete UGC
b.	<b>Professional Experience, Consultancy / Testing</b>		Yearly 1 crore
			Providing consultancy service to the following organization
		:	<p>1.BHEL-PSER/PSNR,</p> <p>2. SNC Power Corporation(P) Ltd.(For 726.6 MW Gas Based CCPP at Palatana, Tripura ).</p> <p>3. Simplex Infrastructures Pvt. Ltd.(Kolkata Metrorail Project &amp; Dankuni Loco-Shed Factory Under Eastern Railway &amp;Joka BBD Metrorail Project)</p> <p>4. East Coast Construction (Rajarhar HIDCO Flyover &amp;Nabadiganta Building, Salt-Lake).</p> <p>5.Bridge and Roof Co. (India) Ltd.(Mejia Thermal Power Plant Project at west Bengal)</p> <p>6.Central Public Works Department, Kolkata.</p> <p>7.Gun Shell Factory Kolkata,</p> <p>8. Eastern Railway, Howrah.</p> <p>9.N.F Railway</p> <p>10. M.K GUPTA&amp; Associates(Siliguri-WB)</p> <p>11.Ambuja Realty</p> <p>12.PaharpurColling Tower Ltd.(For 726.6 MW Gas Based CCPP at Palatana, Tripura).</p> <p>13. Tourism Department Government of Jharkhand.</p> <p>14. LIC-Kolkata.</p> <p>15. Bihar Public Health Department.</p>

			16.Kolkata Port Trust 17.Eastern Railway Bhagalpur 18. Eastern Railway Maldah Division. 19. Eastern Railway Jamalpur Division. 20. Eastern Railway Sealdah Division. 21. Kolkata Metropolitan Development Authority 22. West Bengal Public Health Department. 23. Bihar Rajya PoolNirman Nigam Limited. 24. National Building Construction Corporation Ltd. 25. Central Warehouse Corporation Ltd. 26. Central Rail side Warehouse Corporation Ltd. 27. Pratibha- China State Joint Venture Ltd. 28. McNally Bharat Engineering Company Limited 29. Military Engineering Services (MES) 30.ABB LTD. 31. RITES 32. Ahluwalia Contracts (INDIA) LTD. 33. ITD Cementation India Ltd. 34. Kolkata Port Trust. 35 CPWD-WB 36 CPWD-Tripura 37. Tripura University. 38. West Bengal Transport Infrastructure Development Corporation Limited 39. HSCL 40. PWD-WB 41. Axis Consultant Mumbai. 42. Kendriyo Vidyalaya 43. MES 44. Ordinance Factory Board under Ministry of Defense 45. NCC 46. Kolkata Police 47. NHAI 48. Tripura State Electricity Board
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			49. Engineering Projects India Ltd. 50. TATA Projects 51. West Bengal PWD. 52. Metal & Steel Factory Cossipore 53. Shapoorji & Pallonji 54. CPWD-Boarder fencing Division. 55. Dipon Construction-Bangladesh 56. Airport Authority of India.
c.	<b>Fellowships / Honour/Awards</b>	:	<b>Senior Research Fellow(SRF) of CSIR</b> from 2004-2005 at Jadavpur University
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d.	<b>Membership of Professional bodies</b>	:	Fellow Member of The Institution of Engineers (INDIA), Chartered Engineer of IEI, Life Member, Indian Concrete Institute, Member, Society of Civil Engineers, Jadavpur University,
e.	<b>Extra duty</b>	:	Hostel Superintendent of Jadavpur University Salt-Lake Campus in 2010-2015.

#### **Short Bio-Data:**

Dr. Partha Ghosh is B.E(Civil Engineering) in 2001, then he did M.E(Structural Engineering) in 2003 & Ph.D(Structural Engineering) in 2007 from Jadavpur University, Kolkata India. He joined as a Lecturer of Construction Engineering Department of Jadavpur University in 2005; presently he is the Associate Professor of same department. His field of research is concrete microstructure, Bacterial Concrete, Geopolymer concrete & concrete durability study. He has published more than 27 International Journal & 12 Conference publications. He is the Life time member of Indian Concrete Institute & Fellow member of Institution of Engineers (INDIA).He has guided two Ph.D Students and 3 more are doing Ph.D under his guidance. He has also guided many 13 numbers of Master degree students in his department. He is providing consultancy services of many Govt, Semi Govt. and Private Organization in India & Abroad.

.....ParthaGhosh.....

Signature

#### List of Journals

1. *Cement and Concrete Research.*
2. *Indian Journal of Experimental Biology*
3. *Indian Concrete Journal*
4. **International Journal of Recent Trends in Engineering**
5. **ARPJ Journal of Engineering and Applied Science,**
6. **International Journal of Natural Science and Engineering**
7. **International Journal of Applied Engineering Research.**
8. *Journal of Civil Engineering and Management*
9. **Canadian Journal of Civil Engineering**
10. **LAMBERT PUBLICATION**
11. **International Journal of Engineering Research and Applications**
12. **International Journal of Structural and Civil Engineering.**
13. **Journal of Engineering JEN**
14. **WULFENIA JORNAL, Klagenfurt, Austria**
15. **International J. Technology**
16. **International Journal of Engineering Research and Science and Technology**
17. **International Journal of Technical Innovation in Modern Engineering & Science(IJTIMES)**
18. **Research Journal of Chemistry and Environment August 2018.**
19. **Oriental Journal of Chemistry ISSN: 0970-020**

**With regards-**  
**Dr. Partha Ghosh**