**Dr. PARTHA GHOSH**

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| Professor, Department of Construction Engineering,  Jadavpur University, Salt Lake Campus, Plot-8, Sector-III, Block-LB, Kolkata-700106. |  |
| Resident: Srishti Apartment, 1st Floor, 144/1, Avenue South Road. Santoshpur.  Kolkata-70075  India. |
| **PH:**91-9433112189 |
| **Fax:91-33-2335-7254** |
| **Email Address: parthaghosh.const@jadavpuruniversity.in** |
| [**Curriculum Vita**](http://www.jaduniv.edu.in/upload_files/Curriculum_Vita/Curriculum_Vita_of_801.docx) |  |

**Education**

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| **Degree** | **Year** | **University** |
| |  |  |  | | --- | --- | --- | | Ph.D. | 2007 | Jadavpur University | | M.E. | 2003 | Jadavpur University | | B.E. | 2001 | NIT,Agartala | |  |  |  | | | |

**Teaching Experience (3)**

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**Industrial Experience (0)**

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**Field of Specialization**

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| Structural Engineering, Concrete Technology, Repair & retrofitting Technique & Structural Health assessment, Earthquake Engineering. |
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**Courses Taught/Teaching**

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| |  |  | | --- | --- | | |  | | --- | | 1. Design of RCC Structure 2. Design of Steel Structure 3. Precast & Prestressed Concrete 4. Theory of Structure 5. Structural Mechanics 6. NDT Lab 7. Disaster Mitigation Technique. | | |

**Research Area**

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| 1. Geopolymer Concrete 2. Light Weight Concrete 3. Concrete Micro structure 4. Sustainable building material |
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**Experience**

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17 years teaching experience at Jadavpur University.

**Conference Papers Published (13)**

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| Use of Stone Dust as an Alternative  Fine Aggregate Material In Concrete | 2nd International conference on Frontiers in Engineering Applied Sciences and Technology | 2018 | Bikram Paul, Kushal Ghosh and Partha Ghosh | - |
| [- |  |  |  |  |
| A critical Review of structural rehabilitation strategy of earthquake damaged RC elevated Water tank on  shaft type staging | International conference on Dhaka | 2017 | P. Ghosh & P.Roychowdhury | - |
| Effect of variation of slag on microstructure and engineering  properties of water cured fly ash-slag based geopolymer composites | International Conference on Composite Materials and Structures-  ICCMS 2017 | 2017 | P. Ghosh & K. Ghosh | - |
| Investigation on Thermal; Behavior of  Fly ash based Geopolymer Binder | ICI-Innovative World of  Concrete-08 | 2008 | Ravindra N Thakur, Dr. Partha Ghosh, Dr. Somnath Ghosh | - |
|  |  |  |  |  |
| Investigation on Thermal; Behavior of  Fly ash based Geopolymer Binder | ICI-Innovative World of  Concrete-08 | 2008 | Ravindra N Thakur, Dr. Partha Ghosh, Dr. Somnath Ghosh | - |
|  |  |  |  |  |
| Effects of Microorganism in concrete | Self Healing material of Concrete | 2007 |  | - |
| Effects of Microorganism in concrete | International Symposium on Advances in Concrete through Science and Engineering | 2006 |  | - |
| Use of microorganism to improve the strength of cement-Sand mortar | International Conferenceon Advances in Concrete And Construction,ICACC-2004 | 2004 | Ghosh P.,Mandal S., Chattopadhyay B.D., Pal S. | -983-988 |
|  |  |  |  |  |

**Journal Papers Published (46)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Title of the paper** | **Journal of publication** | Yea r |  | **Role** | **Vol Number-Page Name** | | Sulphuric acid durability Studies of concrete with Portland cement (CEM-I), Portland Composite cement of different types (CEM-II/A-M &CEM-II/B-M) & partial replacement of Portland cement with different types of pozzolonic materials | International Research Journal of Engineering and Technology (IRJET | 2019 |  | P. Ghosh & A.A Laskar | Volume: 06 Issue: 04- | | Importance of Si to Ca ratio of cementitious material on durability of concrete facing to acidic environment | Journal Tathapi | 2019 |  | P. Ghosh & A.A Laskar | Volume-19, Issue-23 , | | Significance of SiO2/CaO ratio in composition of cementitious substantial on Relative dynamic modulus of concrete subjected to cyclic F/T exposure to concrete | Journal Tathapi | 2020 |  | P. Ghosh & A.A Laskar | Volume-31, Issue-23 May -2020. | | Significance of SiO2/CaO proportion of cementitious materials on durability of performance of concrete against Sulfate exposure | TEST Engineering and Management | 2019 |  | P. Ghosh & A.A Laskar | ISSN: 0193-4120, Page No. 22894-22911 | | Importance of Al2O3/CaO ratio of cementitious materials on mitigation of Chloride permeability of concrete | TEST Engineering and Management | 2020 |  | P. Ghosh & A.A Laskar | ISSN: 0193-4120, Page No. 22912-22924 | | Influence on Durability of Concrete with different types of Cement, Pozzolonic materials & Epoxy coating on concrete exposed to different types of Acid exposure | International Journal of Engineering and Advanced Technology | 2019 |  | P. Ghosh & A.A Laskar | Volume-9, Issue-I, October-19, pp.7173-7180 | | Durability Assessment of Concrete by using Electrical Resistivity & Rapid Chloride Permeability Technique | International Journal of Engineering and Advanced Technology (IJEAT), | 2019 |  | P. Ghosh & A.A Laskar | Volume-9, Issue-I, October-19, pp.5175-5179 | | Effect of Hydration age on Durability of concrete by using Electrical Resistivity technique | International Journal for Research in Engineering Application & Management | 2019 |  | P. Ghosh & A.A Laskar | Vol-05 ,Issue -05 , Aug 2019, pp.197-201 | | Influence of different types of Cement & Supplementary Cementitious materials Fly ash & GGBS in concrete Carbonation | International Journal for Research in Engineering Application and Management (IJREAM), | 2019 |  | P. Ghosh & A.A Laskar | Vol-05, Issue-02,May 2019, pp.420-425 | | Influence of Alkali content of Cement in Alkali Silica Reaction of concrete | International Journal for Research in Engineering Application & Management | 2019 |  | P. Ghosh & A.A Laskar | Vol-05, Issue -06, Sep 2019, pp. 64-67 | | Effect of different types of Cement in Concrete Chloride Permeability | International Journal for Research in Applied Science and Engineering Technology | 2019 |  | P. Ghosh & A.A Laskar | Vol-7 Issue-5, May 2019, pp.3293-3298 | | Influence of Coal Tar Epoxy paint on Concrete Exposed to Sulfate Exposure | International Research Journal of Engineering and Technology | 2019 |  | P. Ghosh & A.A Laskar | Vol-6, Issue 9 , Sep 2019, pp.2084-2095 | | Influence of Different types of Cement , Pozzolonic materials & Anti-carbonation surface coating of concrete in carbonation of Concrete | International Journal of Research and Analytical Reviews (IJRAR) | 2019 |  | P. Ghosh & A.A Laskar | Vol-6, Issue 2, May,2019, pp.994-1001 | | Response of Different types of Cement & Partial Replacement of Portland cement with Fly & GGBS in concrete against Phosphoric Acid Attack | International Journal of Emerging Technology and Advance Engineering | 2019 |  | P. Ghosh & A.A Laskar | Vol- 9, Issue 5, May 2019, pp.71-82 | | Influence of Different Types of Cement & Pozzolonic Materials on Chloride Penetrability to Concrete” | Journal of Emerging Technologies and Innovative Research | 2019 |  | P. Ghosh & A.A Laskar | Vol-6, Issue 5,May 2019 , pp.233-241 | | Influence of Different Types of Cement & Pozzolonic Materials on Chloride Penetrability to Concrete | Journal of Emerging Technologies and Innovative Research | 2019 |  | P. Ghosh & A.A Laskar | Vol-6, Issue 5,May 2019 , pp.233-241 | | Influence of Different types of Cement & mitigating effect of Pozzolonic materials & Lithium based salt in ASR of Concrete | American Journal of Engineering Research | 2019 |  | P. Ghosh & A.A Laskar | Vol-8 ,Issue -9, Sep-2019, pp.98-103 | | Comparative Durability Studies of Concrete by using Electrical Resistivity technique & Rapid Chloride Permeability technique | Journal of Engineering Research and Application (IJERA) | 2019 |  | P. Ghosh & A.A Laskar | Vol. 9, Issue-9 (series-I) September 2019, pp.44-49. | | Influence of different form of Lithium salt and Barium Sulfate in mitigation of ASR expansion in Concrete” | IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), | 2019 |  | P. Ghosh & A.A Laskar | Vol-16, Issue -5 Ser .I (Sep. - Oct. 2019), pp 18-23 | | An Experimental Study on RCC Chimney shell Surface damage problem on Slip-form concrete & its Preventive Measures | International Journal of Emerging Technology and Advance Engineering | 2019 |  | P. Ghosh & A.A Laskar | Vol- 9,Issue 7, July-2019, pp.53-62 | | Innovative Experimentation on hollow cylindrical shells of Reinforced Concrete under axial compressive load | International Journal of Recent Technology and Engineering | 2019 |  | P. RoyChowdury and Dr. P.Ghosh | Vol-8, Issue-3,September-2019 | | *A Critical Review of Comparative Seismic Behaviour of R.C Shaft Supported Elevated Water Tanks & Chimney* | Journal of Structural Engineering, CSIR- Structural Engineering Research Centre, Chennai, | 2018 |  | P. RoyChowdury and Dr. P.Ghosh | Vol-45, No.4, October-November 2018, pp. 347-358 | | Review of buckling capacity of reinforced concrete thin shell shaft staging of elevated water tanks | International Journal of Technical Innovation in Modern Engineering & Sciences | 2018 |  | P. RoyChowdury and Dr. P.Ghosh | Vol-4, issue-10, October 2018 | | A critical Study of seismic behavior of RC elevated water tanks on Shafts Type of Staging System | International Journal of Engineering Research and Science and Technology | 2017 |  | P. RoyChowdury and Dr. P.Ghosh | Vol.6, No.1-65-84 | | 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 | Asian Journal of Engineering and Applied Technology | 2018 |  | P. Ghosh, K Ghosh, B. Paul | Vol.7, No.2 | | [Effect of variation of slag content on chemical, Engineering and micro structural properties of thermally cured fly ash-slag based Geopolymer composites](http://rasayanjournal.co.in/admin/php/upload/364_pdf.pdf) | Rasayan Journal of Chemistry | 2018 |  | P. Ghosh, K Ghosh, B. Paul | Vol. 11, No. 1, Pg-426-439 | | [Effect of Alkali Concentration on Mechanical Properties, Microstructure, Zeta Potential and Electrical Conductivity of Thermally Cured Flyash Blast Furnace Slag Based Blended Geopolymer Composites](http://dx.doi.org/10.13005/ojc/340212) | Oriental Journal of Chemistry | 2018 |  | P. Ghosh, K Ghosh, B. Paul | Vol. 34, Issue 2 | | Effect of Variation of Sodium Silicate content on Microstructural and Mechanical Properties of Thermally Cured Fly ash-slag based Geopolymer Composites | Research Journal of Chemistry and Environment | 2018 |  | P. Ghosh, K Ghosh, B. Paul | Vol. 23, Issue 3 | | Effect of Stone Dust On the Mechanical and Microstructural Properties of OPC Based Concrete Subjected to Acid Exposure | International Journal of Recent Technology and Engineering | 2017 |  | Bikram Paul,Khokon Karmakar,Kushal Ghosh, Partha Ghosh | Vol. 8, Issue 3 | | Mechanical and Microstructural Characteristics of Ternary Blended Mortars Incorporating GGBS and Alccofine Subjected to Acid and Sulphate Exposure | International Journal of Engineering and Advanced Technology | 2019 |  | Arnab Mondal,Kushal Ghosh, Partha Ghosh | Vol. 9, Issue 1 | | Mechanical Properties and Microstructural Features Using Stone Dust as a Partial Replacement of Sand | International Journal of Engineering and Advanced Technology | 2019 |  | Bikram Paul,Kushal Ghosh, Partha Ghosh | Vol. 8, Issue 6 | | Use of microorganism to improve the strength of cement mortar | *Cement and Concrete Research* | 2005 |  | **Ghosh P.**,et. al | Vol.35 (10) (**2005**), pp 1980-1983. | | Development of bioconcrete material using an enrichment culture of novel thermophilic anaerobic bacteria | *Indian Journal of Experimental Biology* | 2006 |  | **Ghosh P.**,et. al | Vol. 44(**2006**), pp.336-339 | | Effect of addition of microorganisms on the strength of concrete | Indian Concrete Journal | 2006 |  | **Ghosh P.**,et. al | Vol.80 (4)(**2006**), pp.45-48 | | Acid resistance of Fly ash based Geopolymer mortars | International Journal of Recent Trends in Engineering | 2009 |  | **Ghosh P.**,et. al | Vol.1 No.6 May 2009 | | Resistance of Fly-Ash Based Geopolymer Mortar in Sulpheric Acid | ARPN Journal of Engineering and Applied Science | 2009 |  | Ghosh P.,et. al | Vol4, No.1, Feb-09 | | Effect of Na2O Content on Durability of Geopolymer Mortars in Sulphuric Acid | International Journal of Natural Science and Engineering | 2009 |  | Ghosh P.,et. al | Vol.2Feb 2009 | | Effect of Na2O Content on Durability of Geopolymer Mortars in Sulphuric Acid | International Journal of Applied Engineering Resarch | 2009 |  | Ghosh P.,et. al | Vol.4, No. 11(2009) PP:1969-1977. | | Effect of water absorption, porosity and sorptivity on durability of Geopolyme rmortar | ARPN Journal of Engineering and Applied Science | 2009 |  | Ghosh P.,et. al | Vol.4, No.7, Sept-09, PP,28-32 | | Durability of fly ash Geopolymer Mortars in nitric acid – Effect of alkali (Na2O) Content | *Journal of Civil Engineering and Management* | 2011 |  | Ghosh P.,et. al | *2011 volume 17(3):393-399* | | Effect of Na2O content on Durability of Geopolymer pastes | Canadian Journal of Civil Engineering | 2011 |  | Ghosh P.,et. al | Manuscript ID:  2011-0015.R1 *CANADA* | | Effect of Silica Fume additions on porosity of Fly ash Geopolymers | ARPN Journal of Engineering and Applied Science | 2010 |  | Ghosh P.,et. al | Vol.5, No.10, Oct-10 | | Sorptivity of Fly ash Based Geopolymer Pastes and Mortars | WULFENIA JORNAL, Klagenfunt, Austria | 2012 |  | Ghosh P.,et. al | ISSN:1561-882X. Vol.19.No.10.Oct.2012 | | DIN Permeability Test and Effect of Concentration of Alkali on the Water Penetrability of Geopolymer Mortar | International J. Technology | 2015 |  | Ghosh P.,et. al | Vol.5, Issue 2, Page No. 177-180 | | Comparative Study on Durability of Fly Ash Based Geopolymer Mortars in Sulphuric Acid and Nitric Acid | International J. Technology | 2015 |  | Ghosh P.,et. al | Vol.5, Issue 2, Page No. 177-180 | | Effect of Blust Furnace Slag and Concentration of Sodium Hydroxide on Different Parameters of Fly Ash Based Geopolymer Mortar | American Research Thoughts | 2016 |  | Ghosh P.,et. al | Vol.2, Issue 4, Page No. 3583-3593 | |

**Books Published (4)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Ph.D. Thesis Guidance (4)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**M.Phil. Thesis Guidance (0)**

**Master Thesis Guidance (20)**

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| **Name of the Scholar** | **Title of The Thesis** | **Co SuperVisor** | **Year** |
| Pradipta Roychowdhury | Plasticizer Alkaliactivated Blast Furnace Slag Paste |  | 2016 |
| Raj Sekhar Naskar | Parametric Studies on Compressive Strength and Durability of Fly Ash Based Geolpoymer Mortar |  | 2015 |
| Soumendu Ojha | Use of Rice Ash in Mortar to improve the properties of concrete” |  | 2016 |
| Rama Pramanick | Use of RECRON 3S FIBRE TO IMPROVE THE PROPERTIES OF CONCRETE ALONG WITH CRACK ASSESSMENT OF ANCIENT & NEW STRUCTURE AND ITS REMEDIAL TECHNIQUE. |  | 2017 |
| SUTRIPA DEY | STRENGTH ASSESSMENT OF BITUMINIOUS ROAD WORK USING SYNTHETIC FIBRE |  | 2017 |
| Bikrom Paul | Experimental Study of a Sustainable Concrete using stone dust as a partial replacement of Sand” in the year 2018 | Dr. Kushal Ghosh | 2018 |
| Khokan Kumar Paul | Comparative Study of strength and durability assessment of different types of sustainable concrete with Acid Exposure | Dr. Kushal Ghosh | 2018 |
| Pintu Kumar Das | Effect of Replacement of Fine aggregate by Blust Furnace Slag on the properties of Concrete | Dr. Kushal Ghosh | 2018 |
| Dipak Hazari | Concrete with Sustainable and Eco friendly technology by using the Brick-Klin Dust” | Dr. Kushal Ghosh | 2019 |
| Arnab Mondal | Effect of Graphene Oxide on the Fresh and Hardened Cement Mortar | Dr. Kushal Ghosh | 2019 |
| Sourav Dey | Study of Acid Resistance of Sustainable Blended Concrete | Dr. Kushal Ghosh | 2019 |
| Santonu Roy | Experimental study of durability of mortar using alternative building material | Dr. Kushal Ghosh | 2019 |
| Kaushik Paul | Replacement of san by bottom ash in M25 and M30 grade concrete | Dr. Kushal Ghosh | 2021 |
| Subhasish Bose | To study of Mortar & Concrete with using Manufacture Sand comparing to normal mortar & concrete for the session 2020-2021 | Dr. Kushal Ghosh | 2021 |
| Mangolik Mishra | Sustainable Concrete using Metakaolin for building construction materials | Dr. Kushal Ghosh | 2021 |
| Priyabrata Dutta | Comparative study on Fresh as well as hardened properties of concrete made with Portland composite cement with respect to PPC and PSC | Dr. Kushal Ghosh | 2021 |
| LABANI MAITY | EFFECT OF INFILL WALL OPENINGS ON SEISMIC PERFORMANCE OF RC BUILDINGS | Dr. Kushal Ghosh | 2022 |
| Saptadipa Bhattacharyya | EFFECT OF IRREGULARITIES ON SEISMIC PERFORMANCE in 2022. OF BUILDING. | Dr. Kushal Ghosh | 2022 |
| JAGANNATH DARIPA | EFFECT OF BRACING SYSTEMS ON SEISMIC PERFORMANCE OF RC BUILDING | Dr. Kushal Ghosh | 2022 |
| Ishita Roy Choudhury | - BEHAVIOUR OF GEOPOLYMER COMPOSITES SUBJECTED TO ELEVATED TEMPERATURE |  | 2022 |

**Project Works (0)**

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**Patents (0)**

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**Collaborative Programs (0)**

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**InviteLectures (0)**

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**Membership Of Learned Societies (3)**

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**Orientation/Refresher/QIP CourseAttended/Organized (0)**

**Seminar/Conference/Workshop (0)**

**Session chaired (0)**

**Professional Society Activity (0)**

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**Consultancy work / Testing (0)**

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| **Work Name** | **Organization name** | **Amount (Rs.)** | **Year** |
|  |  |  |  |
| Structural health assessment of 03 numbers elevated OHR AND 2 STORIED SDF building at Kalyani, Falta & Uloberia | West Bengal Industrial Infrastructure Development Corporation | 649000 | 2022 |
| Supervision of prestressing works at Bali Boalia Bridge at Sundarbon , Sandeshkhali-II Block, South 24 PGS, WB. | HRBC | 1534000 | 2022 |
| Structural audit report of distressed building in GOVT. Rental housing complex at Baisakhi Abasab, Salt Lake. Kolkata. | Urban Development and Municipal affairs Department. | 1610700 | 2021 |
| Detail study report for bank protection work in connection /reconstruction of Gangway cum Pontoon Jetties in different locations on the River Hooghly. | WB transport Infrastructure Development. | 1350000 | 2021 |
| Structural health checkup of staff quarter buildings of WBSEDCL at LA Block Housing complex, Saltt Lake. | WBSEDCL | 1504500 | 2021 |
| Stability test of30 Nos. MSF Factory Building inside MSF, Ishapore | Indian Ordinance Factory | 4500000 | 2019 |
| Stability test of30 Nos. MSF Factory Building inside MSF, Ishapore | Indian Ordinance Factory | 4602000 | 2019 |
| Structural stability testing of building and structures in GSF Cossipur | Gun Shell factory Cossipur | 3000000 | 2016 |
| Structural stability test of Ayudh Bhawan Building Kolkata. | Ordinance Factory Board | 900000 | 2016 |
| structural health assessment of Dam | WAPCOS | 800000 | 2019 |
| Structural health monitoring of Bridge | PWD, Govtt of WB. | 1000000 | 2016 |
| Structural health assessment of BHEL Housing complex at Kolkata. | BHEL | 265000 | 2019 |
| Structiral health assessment of Building. | KMC | 420000 | 2019 |
| Structural health assessment of 200 tall chimney | BHEL-BANGLADESH | 1500000 | 2018 |
| Structural health assessment of Hydro electric power station at Assam | NEEPCO | 3540000 | 2021 |
| Structural health assessment of Hydroelectric power station at Megalaya | NEEPCO | 3894000 | 2021 |
| Structural health assessment of Hydro electric power station Tunnel at Megalaya | NEEPCO | 826000 | 2022 |
| Structural health assessment of Panchayet dam | BHEL-PSER | 495000 | 2022 |
| Structural health assessment of Baruni TPS FOUNDATION. | BHEL | 350000 | 2022 |
| Structural health assessment of 3x660 MW TPS at Bihar | BHEL-PSER | 750000 | 2022 |
| Structural health assessment of Chimney | Bokaro Thermal Power Plant | 495000 | 2022 |

**Other Notable Activities (0)**