Dr. Pulak Kumar Munshi

Tel: 9830222731

pulakmunshi61@gmail.com

Profile:

More than **thirty-eight** (38) years of **industrial experience**.

Started carrier as Government of India trainee in **M N Dastur & Company (P) Ltd.**, one of the premier Consulting Engineering organisation in Steel Plant Industry and worked for six years.

Joined **Larsen and Toubro Ltd.** in the year 1989 and worked for two months.

Joined **M N Dastur & Company (P) Ltd.** in the year 1989 and led the Civil Department as **Technical Director and HOD - Civil** from 2010 till 2020 and was holding the position of **Director – Engineering** from 2020 to 2022.

Associated with BIT Mesra, Ranchi as Professor of Practice in Department of Civil and Environmental Engineering and Dean of Infrastructure and Planning from 2022 to 2025. Presently associated with NIT Arunachal Pradesh as Professor of Practice in the Department of Civil Engineering.

Key Experience:

Industrial:

Involved in various industrial projects from concept to commissioning and handled detail design engineering of various types of industrial and technological structures, equipment foundations and auxiliary and ancillary units related to Steel Plants, Power Plants, Cement Plants, Lime Plants, Air Separation Plants in India and abroad. Conversant with working in computerized environment and 3D engineering and familiar with all Indian and International Standards (viz. BS, ACI, IBC, ASCE).

Structural design & detailed engineering by 3D & FEM analysis using STAAD-Pro, value engineering, cost & manpower estimation, preparation of bill of quantities and general & technical specifications, inter-disciplinary co-ordination, interaction with client and equipment suppliers, scrutiny of vendor drawings for different types of industrial and technological structures.

Conducted interactive sessions for the engineers for various civil engineering areas for raw material handling system, sinter plant complex, blast furnace complex, steel melt shop, mill building, water treatment plant, air separation plant etc.

Structures planned, designed & reviewed:

Industrial Buildings, Technological Structures & Foundations:
Wagon Tippler, Track Hopper, Ground Hopper, Bunkers and Silos, Conveyor Gallery and Trestle Tower foundation for Raw Material Handling System, LD Converter Shop, Arc Furnace Shop, R.C. Chimney, Service Buildings, Electrical Substations and Switchyard, Electrical Control Buildings, Pump houses, Repair Shops with piled & open foundations. 600 TPD Vertical Shaft Kiln for Lime Calcining Plant with Blower House, Rotary Kiln and Clinker Cooler, Prestressed Concrete Silos with other technological structures for Cement Plant, Limestone & Iron Ore Crushing Building with R.C. Hopper and Conveyor Tunnel & galleries, LD Converter foundation, Arc Furnace foundation, Ladle Furnace foundation, Caster foundation, Hot Strip Mill foundation, Plate Mill Foundation, Blast Furnace foundation, Cement mill foundation, Cold Box foundation, Liquid Nitrogen tank foundation, Liquid Oxygen tank foundation etc., Wagon Tippler Foundation, Track Hopper, Ground Hopper,

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Machine foundations:
120MW Turbo Generator Foundation, Compressor foundation, ID fan, Blower, Crusher foundations with pile and open foundation.

Water Retaining Structures:
Overhead Water Tank and On-ground Water Tank, Re-circulating Pump House, Make-up Water Pump House etc.

Academic:

Member of BOS of Civil Engineering Department, Jadavpur University and NIT-Arunachal Pradesh.

External examiner of Master of Civil Engineering of Jadavpur University.

Guided engineers for the analysis and design of structures for various industrial projects.

Presented paper on "Art of Detailing" in the Institute of Engineers, India.

CENTRAL JURY member for the final evaluation round of National Award for Civil Engineering students 2017-2018 organised by INSDAG.

Adjunct Professor of Birla Institute Technology, Mesra, Ranchi and NIT Arunachal Pradesh from February 2022. Conducted classes for Structural Design I, Structural Design II in BIT Mesra and Design of Steel Structure I, Design of Steel Structure II and Structural Mechanics in NIT Arunachal Pradesh In UG course.

Publication:

Paper:

1. "Ductility of Steel Fibre Reinforced Concrete Exposed to High Temperature" published in the International Symposium Celebrating Concrete: People and Practice held on 3rd and 4th September 2003 in University of Dundee, Concrete Technology Unit, Scotland.
2. An Investigation of a Turbo Generator Foundation Failure at a Higher Power Generation State published in the Journal of Performance of Constructed Facilities, 2025 (ASCE).

Book:

1. "Steel Fibre Reinforced Concrete under elevated temperature- Strength and ductility assessment" published by LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany.

Seminar and workshop:

Attended and passed the Entrepreneurial Refresher Course involving theory and practicals in "CORROSION OF STEEL IN CONCRETE" conducted by the Central Electrochemical Research Institute, Karaikudi, Timilnadu, India.

Successfully completed "AutuCAD-RELEASE 12" course at M. N. DASTUR & COMPANY LTD., Calcutta.

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Participated in the Two Weeks Summer School sponsored by QUALITY IMPROVEMENT PROGRAMME, Ministry of Human Resources, Govt. of India on "Application of Finite Element Method in Engineering" conducted by Civil Engineering Department, IIT–Kharagpur.

Participated in the workshop on "Computer & Software in Civil Engineering" organized by Bengal Engineering College (Deemed University), Shibpur.

Participated in the workshop on "Team Building & Leadership" conducted jointly by Indian Chamber of Commerce (ICC).

Successfully completed the "2nd Global Construction Technology Building Materials 2010" held in Qatar.

Participated in the Panel Discussion on "Alternate Materials for Construction" organised by TATA STEEL LTD.

Successfully completed the "Project Management Professional (PMP) Preparatory Course" of Project Management Institute (PMI).

Software:

Used STAAD Pro for analysis and design of structures.

Education:

Examination passed	Year of passing	Class obtained	University / Institute
Doctoral Degree Ph.D. (Civil Engineering)	2003	Awarded	Jadavpur University, West Bengal, India
B.E. (Civil Engineering)	1983	First class	Calcutta University, West Bengal, India

Professional Affiliation: Membership of Professional Bodies

1. The Institution of Engineers, India	Grade - Fellow, Chartered Engineer

Date of Birth: 11th April 1961

Nationality: Indian

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Employment Record:

1. M. N. Dastur and Company (P) Ltd., Kolkata – Director-Engineering

PERIOD: **December 1989 to March 2022**

RESPOSIBILITIES

- **Role as Director – Engineering (from 2020 to 2022)**
  Guiding Head of all engineering Cost Centers for successful operation.

- **Role as Technical Director and HOD – Civil (from 2010 to 2020)**

  Guiding engineers of Civil Department in detail engineering for the projects handled.

- **Role as Senior Engineer to Chief Engineer and Technical director (from 1989 to 2010)**

  Detail engineering for various projects in India and abroad.

Involvement in Major Projects:

Important Indian Assignments

Durgapur Steel Plant- Modernisation
Civil design and detail engineering for Continuous Casting Building and Continuous Casting Machine foundations.

NALCO 1 x 120 MW Power Plant
Analysis and design of major equipment foundations and checking of drawings for Turbo-Generator foundation, ID Fan foundation and 220 metres high RC chimney

NECO 1 x 6 MW Power Plant, Raipur
Lead civil engineer for design and complete detail engineering for the plant covering, TG set and ID Fan foundation.

Bokaro Steel Plant - Modernisation
Civil design and detail engineering of Continuous Casting Shop building column foundations.

TISCO Modernisation Phase III & IV
Lead civil engineer, responsible for all material handling system, such as Wagon Tippler Building, Conveyor Tunnels, Transfer Stations, Trestles & Tower foundations for conveyor galleries etc. LD Shop building column foundations, Fan

and Convertor foundations. Charging floor, Water System and Utility equipment foundations.

TSL- KPO Project
Leading Civil Engineering Department for doing the detail engineering for RMHS, SMS, HSM, Utility, Water System and Electrical Systems for 5MTPA Steel Plant.

JSW-10 MTPA Expansion Project at Dolvi
Leading Civil Engineering Department for doing the detail engineering for RMHS, Blast Furnace Complex, SMS, Utility, Water System and Electrical Systems.

DIL-MIDHANI-Wide Plate Mill for Danieli India Limited
Leading Civil Engineering Department for doing the detail engineering for Plate Mill and associated facilities.

Important Foreign Assignments

Bahrain Billet Making Plant
Data collection and preparation of Feasibility Report for installation of Steel Melt Shop, Scrap Yard, Material Handling System, Water & Utility Systems, Electrical Systems etc.

Amran Cement Plant Expansion, Yemen for IHI, Tokyo, Japan
Lead civil engineer, responsible for the civil design work for the whole project, such as Limestone Crushing Building, Additive and Gypsum Crushing Building, Main Power Station and Substation Building, Raw Meal Grinding Building, Additive and Material Hoppers Building, Clinker Gypsum Pozolanna Feed Hopper Buildings, Cement Grinding Building, Compressor Rooms, Control Room and Substation Buildings, Laboratory Building, Receiving Tank for Raw Water, Process Water Tank Foundation, Thermal Oil Heater Room, Water Distribution System Building etc.

Qassim Cement Company, Soudi Arabia for IHI, Tokyo, Japan
Lead civil engineer, responsible for the civil design work for the whole project, such as Pre-heater Tower, Kiln Pier, Kiln Drive Unit, Hydraulic Room, Clinker Cooler & Burner Platform, Truck Dump Hopper, Additive and Gypsum Crushing Building, Raw Meal Grinding Building including Mill Foundation, Cement Grinding Building, Bag Houses, Fan Foundations, Stack Foundations, Stacker & Scraper Rail Track Foundations in Storage Yard etc.

Bimson Cement Company, Vietnam for IHI, Tokyo, Japan
Lead civil engineer, responsible for the civil design work for the whole project, such as Blending Silo (prestressed concrete), Clinker Silo(prestressed concrete), Cement Silo(prestressed concrete), 120M high concrete Chimney, Pre-heater Tower, Kiln Pier, Kiln Drive Unit, Clinker Cooler & Burner Platform, Clay Crushing Building, Cement Grinding Building, Fan Foundations, Stack Foundations, Electrical substation and control buildings.

LISCO- Libya
Lead civil engineer, responsible for the civil design work for Air Separation Plant

QATAR STEEL COMPANY- STEEL MELT SHOP- QATAR
Leading Civil Engineering Department for doing the detail engineering for Steel Melt Shop.

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2. LARSEN AND TOUBRO Ltd., Kolkata – Executive-1

PERIOD: September 1989 to December 1989

RESPOSIBILITIES

- **Role as civil Design Engineeer**
- Design and detail engineering of RCC and Steel Structures.

3. M. N. Dastur and Company (P) Ltd., Kolkata – Senior Engineer - Civil

PERIOD: August 1983 to September 1989

RESPOSIBILITIES

- **Role as Design Engineer**
- Detail engineering of RCC structures for Steel Plants.

Involvement in Major Projects : **Important Indian Assignments**

- **TISCO Modernisation Phase-II**

  Design and detail engineering of Stacker cum Reclaimer Track foundation, Track Hopper, Ground Hoppers, Proportioning Bin Building, Crusher House, Screen House, Transfer Stations, Trestle & Tower foundations, Electrical Control Buildings, Transmission Tower foundations etc.

- **Visakhapatnam Steel Plant**

  Civil design and detail engineering for Coal Handling and Ore/Flux handling systems, Trestles and Tower Foundations for Conveyor Galleries, Junction Houses, Crusher houses, Equipment and Machine foundations, Electrical Control Room buildings.