debashis dey

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Phone: +91 7498156151• Email: [debashisdey.mech@gmail.com](mailto:debashisdey.mech@gmail.com) • Date of Birth: 27th May, 1984

Education

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Degree/Board** | **Institute** | **Rank** | **CPI/ %** |
| July-2010 – June-2012 | M.Tech: Energy Science & Engineering | Indian Institute of Technology, Bombay | 1 | 9.57 |
| August-2001– June-2005 | B.E: Mechanical Engineering | Bengal Engineering & Science University, Shibpur | 5 | 79.47% |
| April-1999 – March-2001 | HSE: W.B.C.H.S.E | Ranaghat Pal Chowdhury Higher Secondary School | 1 | 85.00% |
| April-1997 – March-1999 | SE: W.B.B.S.E | Ranaghat Pal Chowdhury Higher Secondary School | 3 | 81.75% |

m.tech PROJECT

* **Post Graduate Thesis: “**Design of structures for wind load**”.** Load & Moment coefficients for wind will be evaluated in a simple method that can be applicable for analysis of any structure. Experiments will be carried out with a prototype in a wind tunnel and results will be validated by CFD simulation using ANSYS software.

work experience and projects

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| **Year** | **Company** | **Position** |
| 1st July-2006 – 9th July-2010 | Alstom Projects India Ltd. | Design Department, Boiler Division, Kolkata |
| 1st July-2005 – 30th June-2006 | Alstom Projects India Ltd. | Graduate Engineering Trainee |

**1. REVAMP OF VU-40 TYPE UTILITY BOILER-5 at BPCL, Kochi Refinery:** (November-2007 - January 2008 & July-2008 – October-2009) Group Size: 12

Responsibilities**:**

* Preparation of technical specification of all the bought out items e.g. Burner, Mill, Soot Blower, Fan, Damper, Expansion Joint etc & QAP preparation for these items
* Drawings preparation with the help of draftsmen & making BOM of all the items
* Attemperator design & overall furnace performance calculation
* Checking of offers for all vendors & meeting with customer & vendors
* Stress analysis of saturated steam pipe & soot-blower pipe by CEASER II

Softwares Used**:** AutoCAD 2006, CEASER II, MS-Projects, CRM etc.

**2. REPLACEMENT OF EXISTING HSPRDU UNITS & NEW PIPE LAYOUT FROM TPP TO CPP at DVC, Bokaro:**(August-2007 – October-2008) Group Size: 9

Responsibilities**:**

* Preparation of technical specification of all the bought out items & QAP preparation for these items
* Minimum thickness calculation for tube & header as per IBR
* Stress analysis of HSPRDU & Interconnecting Pipe by CEASER II

Softwares Used**:** AutoCAD Mechanical, CEASER II etc.

**3. CONVERSION FROM STOKER FIRED TO BFG, COG & COAL FIRED BOILER at IISCO, Burnpur:** (January-2006 – July-2007) Group Size: 9

Responsibilities:

* Boiler efficiency calculation as per ASME PTC 4
* Economizer design & plane to finned tube conversion
* Minimum thickness calculation for pressure parts & design of tubular air pre-heater
* E-mill & Raymond mill selection procedure
* Check the items with relevant codes like BS, IS, ASTM, AISI, ANSI, NFPA, ASME, IBR etc.

Softwares Used:AutoCAD 2002, CEASER II etc.

co-curricular activities at iit bombay

|  |  |  |
| --- | --- | --- |
| Position | Period | Key Achievements |
| Class Representative | July-2010 to March-2011 | * Inform all 30 students about department activities, classes, examinations * Discussion with Faculty advisor & solve the academic related issues of students |
| Alumni Secretary | April-2011 to March-2012 | * Working with SARC, IIT Bombay * Update Alumni database * Provide required contact details to CC & DPC |
| Venue Manager | March-2011 | * Arrange for different venue related activi- - ties on Energy Day of our department |

HOBBIES & interests

Travelling, Numismatics, Table Tennis, Badminton, Carrom, Novels collection & reading, Photography, Natation, Computer games, Listening to music & watching cricket, movies etc.

ACHIEVEMENTS: Awards and HONOURS

* **Topper** of M.Tech 1st year in Department of Energy Science & Engineering , IIT Bombay
* Designed “An assembly for fossil fuel distribution” when I worked in Alstom R&D sector
* **1 month training in US on Raymond Pulverizer & Tangential Firing Burners**
* Topper in 12th class examination at Ranaghat
* Got awards from Bangiyo Bhugol Mancha (Geography) & ASCPS (Science Quiz)
* Got 1st class from Academy of Fine Arts in drawings

Advanced courses in master of technology

* **Advanced Courses in Energy Science and Engineering:** Energy System Modelling and Analysis, Energy Management, Power Generation and System Planning, Process Integration, Conservation of Energy in Buildings, Solar Thermal, Wind Energy, Solar Photovoltaic
* **Advanced Courses from Mechanical Engineering**: Finite Element & Boundary Element Methods, Stress Analysis, Appropriate Technology