

# Manomita Mollick



- M.Tech in Chemical Engineering
- 9 years of experience
- Process Engineering and Nuclear Waste management.

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## PERMANENT ADDRESS

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Flat NO. 1603-Proviso Heritage  
Plot-5, Sec-35(E), Kharghar  
Navi Mumbai-410210

## Employment Summary:

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1. ThyssenKrupp Industrial Solutions (India) Pvt. Ltd., Mumbai : May 2013 till date
2. Bhabha Atomic Research Centre (BARC), Mumbai : Sept 2008 to May 2013
3. TATA Chemicals Ltd. (TCL), Babrala: August 2007 to July 2008.

## Work Experience:

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### 1. ThyssenKrupp Industrial Solutions (India) Pvt. Ltd., Mumbai (May 2013 till date)

At present, I am associated with the pre-project work for M/s FARABI Including Basic & detail engineering.

Activities and responsibilities:

1. Basic & Detail engineering and design for Fertilizers Plant, Balance of Power Plants, Coal Washery, Offsite & Utility.

2. Preparation and review of various engineering deliverables (drawings and documents) such as PFDs and PIDs, MSDs, Mass & Energy balance Process datasheets, etc. and providing necessary engineering inputs to other disciplines and departments.
3. Estimation of man hour's requirement for the projects involved.
4. Isometrics review w.r.t P&ID & PDMS models
5. Preparation of technical enquiry specification for various Package units
6. Thermal rating of heat exchangers using HTRI.
7. Technical evaluation of vendor's documents.

**Previous Projects / Jobs Handled:**

1. Preparation of Standard Technical Specification for utility packages especially, DM water, Cooling tower, Side Stream Filter etc. Technical Bid Analysis of the package, vendor list development along with Procurement & Inspection departments and development of competency in handling utility packages.
2. Preparation of Technical proposal for Coal washing plant at Jharkhand state for Adani Enterprise Limited (AEL).
3. Balance of Power Plant Proposal for Maharashtra State Power Generation Co. Ltd (MAHAGENCO) at Bhusawal.
4. Urea Plant, Orascom, IFCO, US of America- Detail Engineering- Completed.
5. Urea Plant, CFI, Donaldsonville, US of America - Detail Engineering- Completed

**Software Handled:**

1. Aspen Flare System Analyzer, V8.6
2. HTRI, V 7.0

## **2. Bhabha Atomic Research Centre, BARC (Sept 2008 to May 2013)**

Worked as a Scientific Officer for Waste Management Division and delivered input to develop a new Fast Breeder Reactor waste management plant at Kalpakkam, Tamilnadu.

### **Activities and responsibilities:**

1. Acting as Plant Project Reviewer and interface between BARC and TCE (Tata Consulting Engineers)
2. Preparation of Process Flow Diagram, Piping and Instrumentation Diagram for various projects.
3. Preparation of Process Data Sheet for various equipments, tanks.
4. Material and energy balance, hydraulic calculation.
5. Preparation of equipment layout for Nuclear Waste Management plant.
6. Preparation of Preliminary Safety Analysis Report & Design Basis Report.
7. Attending Atomic Energy Regulatory Board (AERB) safety committee meeting.
8. Preparation of Input for AERB safety committee meeting.
9. Heat exchanger design calculation.
10. Process design calculation for Joule Heated Ceramic Melter.
11. R & D activities on refractory materials.

## **3. TATA Chemicals Ltd., TCL (August 2007 to August 2008)**

Worked as a Graduate Engineer Trainee having exposure to all the running units, viz., Ammonia, Urea plants, as well as its Offsite & Utilities.

### **Activities and responsibilities:**

1. Acted as a Process Engineer (trainee)
2. Worked with SAP-MM module- material balance, production data sheet
3. Operational training in Ammonia and Urea Production plant and Offsite & Utility.

## Education Qualification:

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**M.Tech in Chemical Engineering:** 1st Class with 72.5%  
Homi Bhabha National Institute, Mumbai, India.

**B.Tech in Chemical Engineering:** 1st Class with 72.5%  
University of Calcutta, Science College, Kolkata, India

**B.Sc., Chemistry with Hons:** 1st Class with 60.63%  
University of Calcutta, Sarojini Naidu College, Kolkata, India

## Honor& Awards:

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1. Team member of Project of the Year Award for ORASCOM at TKIS India **2014**
2. Graduate Aptitude Test in Engineering (GATE): **2008**
3. Gold Medalist (Best Student Award): Sarojini Naidu College, University of Calcutta: **2004**
4. Awarded as National Scholar in 10th level: **1999**

## Skills & Knowledge

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1. Process Plant Design: PFD, P&ID, PDS, IPDS
2. Heat and Mass Transfer Equipment Design
3. R & D in Refractory Materials.
4. HTRI, V 7.0
5. Aspen Flare System Analyzer, V8.6
6. International Code & Standard

## Strengths:

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Hardworking, Positive Attitude, Quick Adaptability, Sincerity and Deliverable.

I declare that the above information is true to the best of my knowledge.

**Place – Mumbai, Maharashtra**

*Manomita Mollick*  
10.04.2017

(Manomita Mollick)