

# MEHMET HAKAN ACUN

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## SENIOR CHEMICAL ENGINEER, MSc

### PROFILE SUMMARY

- Proven expertise in managing all aspects of chemical and process engineering projects from concept through detailed design, prototyping and testing.
- Experience in conducting R&D laboratory works in production of magnesium sulfate, magnesium hydroxide, magnesium carbonate, magnesium oxide, potassium chloride and potassium sulphate.
- Ability to manage time effectively while dealing with a variety of issues in a dynamic environment.
- Demonstrated ability to plan, prioritize and manage multiple, complex, time-sensitive projects.

### Core Skills and Strengths

Project Management	Start-up and Commissioning	Feasibility Report
Plant Design, P&ID and Piping	Process Control and Instrumentation	Problem-Solving and Decision-Making
Technical Operation Management	Projections and Cost Estimations	Resource Management

### Significant Work Highlights

- Successfully increased the production capacity of Cayirhan Sodium Sulphate plant by 25% with addition of new crystallizers and auxiliaries.
- Increased in production rate with the improvements in Emerson Delta V DCS control system with changing parameters.
- Participated and led continuous improvement efforts, root cause analysis and problem solving to improve process safety, product yields, capacity release and uptime performance.

### Key Projects

- Commissioning and start-up of Cayirhan Sodium Sulphate Plant Phase 1
- Project Leader in Cayirhan Sodium Sulphate Plant Phase 2
- Project Manager in Dazkiri Potassium Sulphate Plant

### PROFESSIONAL EXPERIENCES

#### Technical Manager | Alkim Alkali Kimya A.S Istanbul, Turkey | Jun 2017 to Present

- Handled all the technical operations of three factories producing sodium sulfate, sodium chloride, leonite and magnesium chloride.
- Developed process models, heat and material balances, process flow diagrams, piping & instrumentation diagrams, layout, basic control schemes and equipment specifications.
- Coordinated with the department of sales and accounting for the preparation of projections and cost estimations.
- Conducted pilot plant tests for the production of magnesium and potassium salts tested in laboratory.
- Met regularly with the engineering company and Alkim engineers in order to improve the design of the Potassium Sulphate plant.
- Investigated research papers, articles, and thesis in order to increase the variety of products.
- Communicated and collaborated with the engineering company in the Potassium Sulfate project. Handled start-up and commissioning and successful production of premium quality potassium sulfate.
- Handled the preference and purchasing of equipment, machines, and auxiliaries for the project.
- Prepared and presented detailed report on production operations to the general manager and board of directors.

#### Assistant Plant Manager | Alkim Alkali Kimya A.S Cayirhan Sodium Sulphate Plant, Ankara, Turkey | Apr 2016 to Jun 2017

- Coordinated all departments in order to sustain the production at desired quantity with a premium quality.
- Monitored the whole factory from production of raw materials to the end product with all auxiliaries including the Fluidized-Bed Boiler for steam production.
- Organized meetings with department chiefs regularly in order to solve problems, take actions to decrease the production cost and improve the overall production.
- Supervised the start-up and commissioning of the 2<sup>nd</sup> Sodium Sulphate plant. Managed problems and critical challenges effectively during start-up and ensuring long-term and sustainable outcomes.

## **Production Chief | Alkim Alkali Kimya A.S Cayirhan Sodium Sulphate Plant, Ankara, Turkey | Oct 2011 to Apr 2016**

- Handled start-up and commissioning of a new installed Sodium Sulphate plant. Performed the production capacity test and production stability improvements.
- Designed improvements and implementations in order to stabilize the production.
- Controlled all process equipment and field instruments like crystallizers, heat exchanger, centrifugal and axial pumps, thermo compressors, condensers, cooling tower, pusher type centrifuges, fluidized-bed dryer, flow-pressure-temperature instruments.
- Prepared equipment and machines layout with AutoCAD. Designed and piping of the evaporation plant and drawing of the elementary steel construction with AutoCAD.

## **PAST EXPERIENCES**

### **R&D Chief | Cicek Tekstil Sanayi Tic. A.S., Denizli, Turkey | Jun 2007 to Sep 2008**

### **Quality Control Laboratory Technician | Cicek Tekstil Sanayi Tic. A.S., Denizli, Turkey | Aug 2005 to Oct 2006**

### **Trainee | Dentas Paper Industry Inc., Denizli, Turkey | Jun 2003 to Jul 2003**

### **Trainee | Batı – Söke Cement Industry, Aydın, Turkey | Aug 1999 to Sep 1999**

## **EDUCATION**

MSc Chemical Engineering, University of Leeds, United Kingdom | 2010

Diploma Project: "Erosion of Cohesive and Non-cohesive Sediments with Vertical Impinging Jet and Comparison of Yield Stress" - Investigation of erosion characteristics in order to improve storage conditions of Highly Active nuclear wastes.

B.S. Chemical Engineering, Ege University, Izmir, Turkey | 2006

Diploma Project: "Metal Borates and Zinc Borate Production" – Investigation of metal borates. Design and cost estimation of Zinc Borate production plant.

### **Publication**

- Hunter TN, Peakall J, Unsworth TJ, Acun MH, Keevil G, Rice H, Biggs S. 2013. The influence of system scale on impinging jet sediment erosion: Observed using novel and standard measurement techniques. Chemical Engineering Research and Design 742-734 91.4

### **Certifications**

- Diploma in General English Language – Advanced Degree, United World II School of English, Bournemouth, United Kingdom, 10/09/2009
- Certificate of Achievement in General English – Advanced Degree, Kaplan Aspect Language School, Bournemouth, United Kingdom, 31/07/2009

### **Technical Skills**

MS Office, AutoCAD, AutoCAD Plant 3D

### **Memberships**

IChemE | Chemical Engineering Chamber Istanbul Branch

## **PERSONAL DETAILS**

- Date of Birth: 31<sup>st</sup> March 1979
- Marital Status: Single
- Driving License: B Class / Turkey
- Languages Known: Turkish – Native and English - Advanced
- Address: Fikirtepe Mah. Ruzgar Sok. Elite Concept No: 44A / 239, Kadikoy, Istanbul, Turkey

## **REFERENCES**

Cenk Guner, General Manager, Omis Industries

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