

Curriculum Vitae

1 - PERSONAL INFORMATION

Name	Karim Ghaleb Halaseh
Place & Date of Birth	Amman – 16. 06. 1953
Nationality	Jordanian
Marital Status	Married 25 years with Svetlana Mikhail, One Daughter, Tamara 21 years old
Enjoy	Reading , Swimming, Hearing Music
Languages	Arabic - Mother tongue, English, Russian
E-mail	karim_halaseh@hotmail.com
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1.1 SUMMARY: Highly skilled PA Process Engineer and Operation Manager with more than 27 years' experience in Phosphoric, Sulfuric Acids and Fertilizer Productions such as DAP, MAP NP-S & NPKs

Expert trouble shooter, good communication, discussions and listening skills at working with operating staffs to solve operating problems,
Strong 'minor' in the Mechanical Parts of PAP including several years as PA Plant Engineer for Maintenance
The key word in my past and coming carrier is the creation of value through team work. Coaching, active contribution and commitment combined a strong Operation platform, technical, economical insight enables me to achieve the Goals set for me.
Working in an international team with a global activity is stimulating the performance.

1.2 LEADERSHIP: Strong experience through Production Process Engineer, Superintendent, Production and Executive Plants Manager of Aqaba Industrial Complex. Production Management, Project Team and Various Technical Committees Activities and Active role in Associations,

1.3 PEOPLE: Managing larger up to 950 and smaller entities. Present as leader in daily production meeting with Safety, Production, Technical, Maintenance, and Administration Managers and Plants Superintendents. Monthly Personal development discussion with all employees (workers and operators) and through the Labor Union

1.4 STRATEGY: Participating in many Strategy Processes and following implementation in new projects

1.5 INTERNATIONAL: The carrier in LITWIN –ITALY for two Years has created a strong international experience through Ma'aden Phosphate Project HH PA Plant

2 - PERSONAL STRENGTHS:

- Expert on Wet PA Production (DH, HH, DH-HH and HH-DH and HH Re-crystallisation Processes) using different grades of Jordanian Phosphate
- Scientific and Methodical approach in solving problems
- Self-Motivated with willingness to accept challenges and capable to work under constant work Pressure
- Having a strong belief in Teamwork and an active Team player,
- Able to Coordinate, Control and Direct multinational work force
- Enjoys in working with All Process Engineers and Operation Staffs to update their skills and improve results.

3 - CAREER HISTORY & WORKING EXPERIENCE:

3.0- 9th, July 2012 Director in the Board of Jordan India Fertilizer Company L.L.C (JIFCO) till May 2015

3.01- 17th, July 2012 General Manager Nippon Jordan Fertilizer Co. W.L.L (NJFC), until 16th June 2017 www.njfc-jo.com

3.02- From 24th, July 2012- to May 2013 Director in the Board of India Jordan Chemicals Company L.L.C (IJC)

3.1- November 2010 had jointed with Jordan Phosphate Mines Company (JPMC) as Executive Manager, Business Development

3.2. July 2008 up to August 2010 Commissioning Manager and Coordinator for HH PA Plants (YARA Process), LITWIN, ITALY

3.2.1. In the LITWIN-ITALY, Home Office Phase Activities:

Responsible for Preparation of Process Manuals for Ma'aden Phosphate Project HH PA Plant such as:

- Commissioning Procedure
- Commissioning Manual detailed Startup" Step by Step", Shut down and trouble shooting,
- PA Analytical Manual
- PA Plant Laboratory Manual
- Operating Manual,
- Safety Manual,
- Maintenance Manual
- Performance Guarantees Test Run Organisation Plan & Calculation Procedures,

Responsible for Preparation of Training Manuals for Ma'aden Phosphate Project HH PA Plant such as:

- Operating Training Manual,
- Safety Training Manual,
- Maintenance Training Manual
- Preparation of Training Specification, Programs and Hand Outs for the Employer's Operation Staffs and Technical Support

- Responsible for Commissioning Team build up, providing Pre-commissioning and Commissioning Organization Charts and Mobilization to site,

- Define the Commissioning/mechanical completion schedule for each System and sub-system consistently with the construction completion schedule,

-Provide the duration and schedules of the sub-system for pre-commissioning from the process point of view.

-Responsible for preparation Pre-commissioning and Commissioning and start up Plans schedules and Activities for PA HH Plant, which includes Introduction, Definitions, Division of Responsibility between Contractor and Owner (The Commissioning /Start up Manager Commissioning Team & Site Construction Manager and Owner), Pre-commissioning (Mechanical Completion) Activities and

Commissioning Information Packages for a process system contained essentially the Main documentation:

- Process System Description with system boundaries
- Activity list of specific items or tasks to be completed for each Package System during pre-commissioning and commissioning

- “As Built” Process and Instrument Diagram (P&ID) and Process Flow Diagram (PFD) with package boundaries marked.
 - Package System Mechanical Completion Check-sheet
 - Mechanical Completion Certificate signed if available, blank if not signed off.
 - Construction QC Test Certificate for hydro and leak testing.
 - Instrumentation List for package or reference to the General Instrument List.
 - Vendor documentation with specific recommendations, procedures, operating information, drawings, and other vendor documentation where required.
 - Pre-commissioning, commissioning and startup/operating procedures
 - Pre-Start up Safety Review form completed and signed by all parties
 - Pre-commissioning, commissioning and startup schedule and Periods
 - Performance test Period according to the Contract and Test Schedules
 - Commissioning Completion Report
 - Engineering and Support Services
 - Vendor Representatives
 - Make good and System Turnover to Owner
 - Safety Tagging
 - Documents needed before Pre-commissioning and Commissioning
 - Items Needed Before Commissioning
 - Items Needed After Start Up
 - Safety
 - Spare Parts, Lubrication and lubricants and Maintenance Materials required during Pre-commissioning and Commissioning Activities
- Providing Technical Supports for Preparations of different Technical Specifications such as:
- Specifications for Rubber Lining used for CS Tanks, Reactors, Flash Coolers and Boiler Evaporators,
 - Specification for Anti- Acid Brick Lining used in Reactors, Flash Coolers and Boiler Evaporators.
 - Specification for Pipes and Piping System,
 - Specifications for Valves used in PAP
- Revising P&IDs and Water Balance diagrams, Revising Interlock System sequences for Startup and Shut down
- HAZOP (Hazard and Operability): Study action and response

3.2.2. At the Site Phase Activities:

Commissioning Manager

He reports to Site Manager. His duties and responsibilities include:

- Preparation of commissioning Plan
- Development of detailed commissioning procedures
- Preparation of commissioning schedule in conduction with others
- Coordination of all other discipline commissioning planning activities within Contractor’s scope of work
- Coordination of execution of approved commissioning plans
- Reviewing test run and performance verification procedures
- Supervising test run procedures
- Providing necessary test run data required fro preparation of test run reports by Field Engineering Coordinator.

- Supervision of all operational activities during contractual period
- Preparation of progress and other reports as necessary
- Assisting Site Manger in communication with Company representatives

From Construction phase till hand over and make good included Mechanical Completion,

-Responsible for Commissioning & Start up Services

-Responsible for the Commissioning Team for Pre-commissioning, Commissioning and Startup Activities and performance Guarantees Test Run till to hand over the project and Make good according to the Contract

-Responsible for performance quality, safety and environment and HS&E regulations and Standards on Ma'aden Phosphate Project PAP during Pre-commissioning, Commissioning and Startup activities

3.3-Feb. 2007 – July 2008: Advisor to Chairman and CEO for Projects, JPMC - JORDAN

-Responsible for new Uranium Extraction Project from Wet PA in 2008,

-Technical support to JIFCO, a joint venture company owned by JPMC and Indian Farmers Fertiliser Cooperative Limited (IFFCO) DH PA Plant Project for using 60-62 BPL Low Grade Red Phosphate Rock, (SNC-Lavalin in Europe has been awarded an engineering, procurement, construction management (EPCM) contract to build SA with capacity 4500 MTPD, DH PA 1500 MTPD complex including a Power Plant and Utilities at Eshidiya Mines in May 2010). The total estimated investment value of the project is about US\$ 820 million.

3.4. 2004- February 2007 Executive Plants Managers of Aqaba Industrial Complex

-Responsible for Safety, Environment on AIC, Production Units Performance, Daily, monthly and Yearly Productions, quality, budgeting, investments, Maintenance and Maintenance Cost and Spare Parts, renewal the old insufficient equipment such as Digesters, implementing new technology and equipment for improvements in qualities and quantities of products and Dust Emissions in Phosphate Grinding Section and Gas emissions in SA and DAP Plants as well

3.5. 2001-2004: Production, Planning and Production Control Manager –AIC

3.6. 1998-2001: Assistant Manager (Operation)

3.7. 1996-1998: PA Plant Superintendent

3.8. 1995-1996: PA Plant Assistant Superintendent

3.9. 1991-1995: was on study leave

3.10. 1988-1991-PA Process Engineer- AIC

3.11.1986 - 1988: 1986 - 1988: Jordan Phosphate Mines Company, Industrial Complex Formerly Jordan Fertilizer Industry (JFI). Aqaba - Jordan.

Function: Production Shift Supervisor, “Production Dept.”

Supervise & Control the startup, shut down as well as the proper operation of two Sulfuric Acid Plants (Each Capacity - 1800t/d and increased after revamping to 2250 t/d in 1994), according to schedules and Technical Plant Equipment’s Specifications and Standards

Unit operations include Solid Sulfur Melting and Filtration, molten sulfur, Steam Turbo - Blower, Air drying, Sulfur Combustion, Conversion of SO₂ into SO₃ in presence of a V₂O₅ catalyst, Absorption of SO₃ by 98.3%, Sulfuric acid “double absorption” Cooling and storage the 98.5% acid product.

3.12.1982 - 1986: Jordan Fertilizer Industry (JFI). Aqaba - Jordan

Function:

-Sulphuric and Phosphoric acid Plants Filed Operator, Panel Operator in Control Rooms and Production Shift Supervisors, Operate, Supervise & Control the startup, shutdown of PA Plant -Capacity 1250t/d - Dihydrate process.

Participate in Pre-commissioning, Commissioning, start up and Test run activities - Jordan Fertilizer Industry (JFI) - Jordan Fertilizer Industry (JFI)

-Monitor & follow up during performance test.

-Testing and studying several types of Jordanian phosphate rock including Grind ability, Reactivity, Filterability and Productivity

-Training operators, supervisors and engineers as well

Unit operation include phosphate rock truck unloading reclaiming and storage, ungrounded phosphate reclaiming and phosphate rock grinding, ground rock storage and handling, Sulphuric acid dilution, phosphate Phospho-Sulphuric acids reaction in the agitated Single Tank Reactor and Multi-compartment tank reactor as well, slurry filtration on the UCEGO Filter No12 (Total Filter Surface Area 205 m²), 30% acid tanks, Concentration “Graphite block, Tube & Shell heat exchanges, Fluorine absorption and production of Fluosilicic acid (FSA) and storages and PA clarification unit and settling Tanks, 52% acid storage Tanks .

3.13.1980- 1982: Jordan Fertilizer Industry (JFI). Aqaba - Jordan

Function: Process trainee (Production Dept), to become oriented with the Fertilizer Complex, trained in phosphoric, Sulphuric acid plants. Follow up progress of engineering works, civil and structural works, and equipment erection of the Fertilizer Complex, Sulphuric, and Phosphoric and Granulation plants.

4 – EDUCATION BACKGROUND

1973 -1980: The KHARKOV POLYTECHNICAL INSTITUTE (USSR), **Masters of Science** in Engineering with Honour. Specialized in **Technology of Inorganic Substances and Mineral Fertilizers**.

A Final Diploma Project was made on “Vapor-Oxygen Ammonia Oxidation under Pressure using a Two- Stage Catalysts”. Special Technological Practice in Nitric Acid Plants

1991-1994: **PhD in Engineering Sciences** from The KHARKOV POLYTECHNICAL INSTITUTE, specialized in **Phosphoric Acid Technology**

5 - PROFESSIONAL TRAINING:

-1981-1982: Training Courses for Phosphoric and Sulphuric Acid Plants start up, shut down, troubleshooting interlock system, etc. held at Fertilizer Complex Aqaba - Jordan

-March - 1985: Short Course on Industrial Crystallization held at the University of Jordan

-1985: Bechtel Energy Conservation Seminar held at the Ministry of Energy and Mineral Resources. Jordan

-1988: Proceeding of the Seminar on Fertilizer industry Process Problems & Perspectives held at the Banaras Hindu University, India

-1989: Jordan University of Science and Technology, Course on Applied Mathematics in Chemical Engineering; Design and Specification of Equipment

-May - 1996: ISO 9000 Total Quality Management system Held at CCIP offices. (Consulting for Construction & Maintenance of Industrial Projects)

6 - PUBLISHED SCIENTIFIC PAPERS:

- 2014 K Halaseh, Manual for Hot Commissioning & Procedures for PA Concentration Line Start-Up, Shutdown and Washing for JIFCO Project Jordan, February 2014
- 2014 K Halaseh, Pre-Commissioning, Commissioning and Start Up Manual for Key Equipment of PAP for JIFCO Project Jordan, February 2014
- 2014 K Halaseh, Pre-Commissioning, Commissioning & Start up Organisation Plan's Manual for 1500 MTPD Prayon Mark VI Di-Hydrate PA Plant of JIFCO Project Jordan, January 2014
- 2012 K. Halaseh, Procedure for Mechanical Completion & Hand Over for 1500 MTPD Prayon Mark VI Di-Hydrate PA Plant of JIFCO Project Jordan, December 2012
- 2011 K Halaseh, A. Agha, J. Shraiha, M. Zoubi. Why Wet Grinding? Should the Aqaba Dry Grinding Unit Convert to Wet Grinding Process In Aqaba Industrial Complex?
- 2011 K Halaseh, Y. Daasen, A. Agha, J. Shraiha. Phosphate Slimes Dewatering and Wastewater De-Chlorination Treatment Technologies at Eshidiya Beneficiation Plant - JPM C
- 2008 K. Halaseh, Effect of Inorganic Modifiers on PA Dihydrate Slurry Filtration at High Reaction Temperature- 90°C, IFA Technical Conference, Sao Paulo, Brazil.
- 2006 K. Halaseh, Philosophy of Implementing a Digestion System in Dihydrate PA Technology, IFA Technical Conference-Vilnius, Lithuania
- 2004: K. Halaseh. Water Management at the Aqaba Industrial Complex, I FA Technical Conference-China.
- 2003: K Halaseh, Water Management at the Aqaba Industrial Complex AFA Fertilizer Journal, Issue No, 35, 2003
- 2002: K. Halaseh. Approach to Optimization of the Major Process Parameters in WPA in Production "Dihydrate Process" IFA- Tech. Conference, Chennai, India, 2002.
- 2001: K. Halaseh & O Al Fakeh, High Quality Aluminum Fluoride Production. AFA, No, 29, 2001, Page 39-44
- 2000 H. B. Rahmatalla, K Halaseh and M.Beni-Mufarej, Corrosion Resistance of High Alloy Stainless Steels in Industrial P A (Part 1: Attack Stage), AFA, No. 27/28 2000
- 2000 M.Beni-Mufarej H Rahmatalla, K Halaseh, Effect of Fluorides, Chlorides and Flow Rates on Corrosion Resistance of Stainless, Masters of Science in Metal orgy, Faculty of Graduate Studies, University of Jordan
- 1998 K. Halaseh, H. Dukhgan, Operating Experience of Processing Low Grade Jordan Phosphates in the Manufacture of WPA Production, IFA Technical Conference - Marrakech, Morocco
- 1998 K Halaseh, H Dukhgan, Fluorine Emission, Recovery and Utilization of by-Product H_2SiF_6 for AlF_3 Production, IFA Technical Sub-Committee, France
- 1997 K. Halaseh, WPA Production Using Jordanian Phosphate Rocks, AFA Tenth Annual Technical Conference, Amman- Jordan
- 1993 K. Halaseh, Laboyko A.Y, and Toshinsky V.I. Comparative Evaluation of Jordanian Phosphate Rock for WPA Production Him Prom No.12,1993, P. 624-632 Moscow

7- SITE VISITS & TECHNICAL SUPPORT

Dr. Halaseh has been at more than 22 PA Plants and other fertilizers plants. The Countries are: (India, Iran, Philippine, Iraq, Canada, Morocco, Russia, Turkey, Ukrainia, Thailand, Australia, China and Lithuania) mostly for consultation and Technical supports

8 - BOARD POSITION

-Technical Director in the Boards of JIFCO and IJC in Jordan

-Member of the Technical Committee in the Arab Fertilizer Association (AFA), 2000-2002

9 - REFERENCES:

1- **Paul A Smith** –Consultant, Bunge Fertilizantes- Brasil.

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Amman , Jordan

SHORT BIOGRAPHY

Dr. Karim Halaseh was a General Manager of Nippon Jordan Fertilizer Company since July 2012 till June 2017. Moreover, He was working as a Technical Director for The Boards of Joint Ventures Companies; JIFCO and IJC in Jordan during 2012-2015

He had jointed with Jordan Phosphate Mines Company (JPMC)-Aqaba Industrial Complex for over 29 years'. His experience in Production, Production Planning, Quality Control Departments and project management.

He is an expert in the field of different Phosphoric Acid Processes and Technologies. In addition to that He has experiences in PA pilot plant testing and process modeling. Having over 26 years' experience in Operation of a Sulphuric Acid, Granulation and NPK plants as well

In 1998 up to 2001, He was an Assistant Manager of PA Plant, Planning & Production Control. Parallel during this period 1999-2001 He was a Co-supervisor at Industrial Engineering Department of The Jordan University.

Then, from 2001 to 2004, he was promoted to Production Manager of Aqaba Industrial Complex. In 2005 till February 2007 Dr. Halaseh was an Executive Plants Manager of Aqaba Industrial Complex- JPMC. The last two years (2007-2008) with JPMC, Dr. Halaseh was an Advisor to Chairman and CEO for Projects

Dr. Halaseh has been with LITWIN ITALIA for 2 and half years on Ma'aden Phosphoric Acid Hemi-Hydrate Project as a PA Plants- Commissioning Manager and Coordinator { Mid 2008 – End 2010 }

Since December 2010 Mr. Halaseh joined back with JPMC as Executive Manager, Business Development till June 2012

Dr. Karim Halaseh has published more than 10 Tech. Papers in PA Production using Jordan phosphate rocks. Since 1998 attended regularly International conferences (IFA & AFA).

He has been in more than 25 PA Plants and other fertilizers plants in different countries (India, Iran, Philippine, Iraq, Canada, Morocco, Russia, Turkey, Ukrainia, Thailand, Australia, China and Lithuania) mostly as site visit, or/ and as consultant for Technical supports

Dr. Halaseh has been providing consulting technical services. Under his supervision, several industrial trials of PA Production using either Jordan rocks or blended with other phosphates have been performed at Aqaba PA Plant, PA Pilot Plant, and other Plants.

In addition to that, under his supervision New Three-Compartment Concrete Rectangular Tank Digester with 900m³ Volume was constructed in 2004 at Aqaba DH PA Plant instead of the damaged Three Cascade Carbon Steel Cylindrical Tanks Digester, commissioned and Performance Test took place in 2005 with high results. During the last two years operation with the new system, the calculated production cost savings amount had reached more than 1.75 million US\$.

He received his Master's Degree of Science in engineering in 1980 with Honour specialized in Technology of Inorganic Substances and Mineral Fertilizers and the Master Thesis was in Production of Low Concentration Nitric Acid Production using two stage catalyst's layers

He received his PhD Degree of Science in Chemical Engineering in November 1994 specialized in Phosphoric Acids Technologies. Both degrees were from THE KHARKOV POLYTECHNICAL INSTITUTE- USSR.