



TaPaM.LTD ТаПаМ.ЛТД תפ"מ.מב"מ

Founded at 2009 as engineering – technology consulting company.  
Main activity areas: chemical and Food industries, design, start-up, modernization of plants for deep treatment of agriculture products and it`s storage.

TECHNOLOGICAL OPTIMIZATION, AUTOMATION,  
MODERNIZATION OF PRODUCTION PROCESSES,  
SOLUTIONS FOR PRODUCTION PROBLEMS.

**12 applied to usage developments, 7 of them – after our company foundation.**

*Our goal- finding technological solution for customer`s production problems .*





## Production Processes Optimization

Consulting and technological service for different companies targeting optimization, modernization and automation of existing production lines. Renovation of production lines by applying more economical processes, decreasing of variable costs by:

- ✓ Decreasing energy consumption by internal fluids utilization and increasing of yield,
- ✓ Decreasing of raw materials consumption per ton of final product,
- ✓ Improving of production control by implementing of modern automation systems.
- ✓ Modernization of production processes
- ✓ Design of production facilities and departments according to all modern standards as ISO, HACCP, GMP.





*TaPaM. LTD have participated in JV project with ICL and TAMI Institution at Dead Sea Salt Plant and during it collected a unique practice of design, start-up and exploitation of plants for Sodium Chloride (Table Salt) production and Side products treatment for following processes and products:*

- ✓ *Food Grade Salt ( $\text{NaCl}$ )*
- ✓ *Pharma Grade Salt ( $\text{NaCl}$ )*
- ✓ *Sodium Hypochlorite ( $\text{NaOCl}$ )*
- ✓ *Caustic soda ( $\text{NaOH}$ )*
- ✓ *Molecular Chlorine ( $\text{Cl}_2$ )*
- ✓ *Soda Ash ( $\text{Na}_2\text{CO}_3$ )*
- ✓ *Sodium Bicarbonate ( $\text{NaHCO}_3$ )*





**TaPaM.LTD TaΠaM.ЛTД תפ"מ.למ.בש"מ**

***TaPaM. LTD company*** has a huge practical experience design, construction, start-up and usage of plants for production of :

***Starches (corn, wheat, potato, tapioca....) and sugars***

*Further conversion of starches and sugar to wide range of products :*

- ✓ Glucose syrup,
- ✓ Glucose syrup with high Fructose content (HFCS),
- ✓ Dextrose,
- ✓ Maltose,
- ✓ Crystalline Fructose,
- ✓ Citric acid and Citrate salts,
- ✓ Modified starches,

***treatment of agriculture products for production of:***

- ✓ Wheat Gluten,
- ✓ Soy and Pea Protein , Lupine protein isolation.
- ✓ Different types of vegetable oils separation.
- ✓ Production of Apple Pectin.





**TaPaM.LTD TaΠaM.ЛTD תפ"מ.מב"מ**

***TaPaM. LTD** company has performed successfully modification and modernization of production processes for:*

- ✓ *Crystalline Fructose for increasing of production capacity, variable costs decreasing and improving of product quality to international quality standards (**Xiwang , China**),*
- ✓ *Citric Acid Production in order to decrease variable costs ( **GBI, China**)*
- ✓ *White sugar production from raw sugar without crystallization stage in order to decrease a variable costs while keeping same high quality (**Ziusiwang, China**)*
- ✓ *Production Line for high quality native Pectin and modified Pectin by enzymatical method (**BelGosPisheProm, Belarus**)*
- ✓ *Production line for Oat Protein isolation and Oat Milk production based of enzymatic method (**SouzPisheProm Co, Russia**)*
- ✓ *Pea Protein production with full utilization of carbohydrates fraction, yield of protein 87% ( **West PisheProm, Germany**)*
- ✓ *High quality Carrot Fibers production based on dehydration (**Vitacel, Germany**)*



*In to production process of **Crystalline Fructose** TaPaM has implemented the most advanced method of Continues Crystallization in order to increase production capacity and quality improvement. For Syrup purification was used a Mix Bed ion exchange system.*

- ✓ *In production process of **Citric acid** was implemented method of feed batch fermentation, expensive Calcium Hydroxide was replaced by cheap Carbonate, method of carousel ion exchange implemented.*
- ✓ *Production of **white sugar** from raw sugar without crystallization achieved by implementing advanced flocculants and coagulants resulted in decreasing of retention volumes and costs decreasing while keeping the same high quality*
- ✓ *For **Pectin** production – improving of product quality and waste water elimination by applying an enzymatically hidrolyzation method.*
- ✓ *High quality **Oat Milk** and **Oat protein** - improving of product quality by applying an enzymatically hidrolyzation method*
- ✓ ***Pea Protein** production with full utilization of carbohydrates fraction, yield of protein 87% with elimination of fibers and carbohydrates*
- ✓ *High quality **Carrot Fibers** production based on dehydration followed by purification*







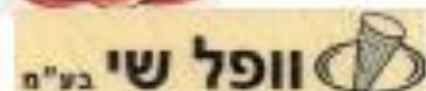
- ✓ For production of **crystalline table salt** in order to increase production capacity and decrease the variable costs, TaPaM has implemented advanced method of multi effect evaporation unit. For Purification was implemented Mix Bed system.
- ✓ For **Pharma Grade Salt** , in order to improve production rate was implemented membrane purification method which replaced existing expensive carousel ion-exchange unit
- ✓ For **Caustic Soda** production, quality improvement was achieved by replacing Mercury based electrolysis cells by membrane system,
- ✓ High effective system for **Chlorine and Hydrogen separation** implemented, equipped with hydro cyclones system which prevents any possibility for pollutions.
- ✓ Production of **Soda Ash** without side products (waste).
- ✓ Balanced production of **Sodium Hypochlorite**.





# TaPaM n"פ

Our Customers are:







## **Tmur Boris**

Chemic Technologist Engineer

### **Education:**

B.Sc Fuel Chemical Technology

M.Sc Chemical Technology of polymers and plastics.

Food Production Technology

### **Experience:**

Engineer Technological Department, Oil Refinery (Ukraine) 6 years

Production QC Department manager Coatings Company Tambur  
(Israel) 7 years

Chief Technologist Gadot Biochemical Industries, Israel 9 years

Head of Technological department, Nilit (Israel) 2 years

Founder TaPaM (Israel) 5 years





הפ"מ.מ.בצ"מ TaPaM.LTD TaPaM.LTD

diplomas'

  
מדינת-ישראל  
משרד העבודה והרווחה

**תעודת רישום**  
**בפנקס המהנדסים והאדריכלים**

חאת לעדות כי

מס' 312793110 **בוריס** **טמיר** **מר(ת)**

**ורשמה) בפנקס המהנדסים והאדריכלים**  
**להנדסה כימית**  
**במדור(ים)**

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בהתאם לחוק המהנדסים והאדריכלים תשי"ח-1958

נתנה בחתימת ידי  
יום זה **י"ד** לחודש **שבט** השנה **התשנ"ה** 15/01/95

מס' העודה 00084352

  
ד"ר אברהם עזריאנו  
רשם המהנדסים והאדריכלים  
בשם שרת העבודה והרווחה

מדינת ישראל  
משרד החינוך והתרבות  
הוועדה להערכת תארים ודיפלומות אקדמיים מחו"ל

**אישור**

אנו מאשרים בזה כי תעודה מס' 175783

שניתנה	למר/עב' טמיר
בוריס	מספר ויהוי 312793110
בתאריך 21/06/89	ע"י המכון הפוליטכני
בא"ר ברית המועצות	בעיר דונ'יאק
	בתחום התמחות
	הנדסת כימיה וטכנולוגיה

שקילה לתואר ש"י מבין התארים האקדמיים הנהוגים בישראל

אישור זה ניתן לצורך דירוג בשכר בלבד.  
האישור ספקה לסחוק/ה בו זכויות והסבות שכר הניתנות לכללי  
תואר אקדמי כגון:  
הערכה זו אינה גורעת סמכויותיו של מוסד אקדמי בישראל. ע"י חוק  
המפקח למשקלה בגרות, תשי"ח - 1958, בכל הנוגע לקבלת תלמידים  
ולמערכת תעודותיהם.  
הערכה זאת אינה גורעת גם סמכויות הרשויות המוסמכות במדינה, בכל  
הנוגע להענקת רישיון לעסוק במקצוע.

  
נירח נר-אריה  
מנהלת המחלקה להערכות  
תארים ודיפלומות מחו"ל

י"רשלים 17/10/94  
מס' האישור 160799

  
הסתדרות המהנדסים בישראל

**זאת לתעודה**

כי מר/ת **בוריס טמיר**

חבר/ה מן המניין  
בהסתדרות המהנדסים בישראל

ניתנה בחתימת ידי  
ביום 23 בחודש כסריאר שנת 2009

37524

  
יצחק רז  
יו"ר

אמדה עותומנית מס' 3477/99



# Contacts

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# Thank You !

