

# { Sugar Industries Solutions }



- NDESCO is well aware that the sugar industry places extra demands on handling equipment which meet and exceed these demands through their expertise in the system, equipment design, manufacture, Erection and commissioning of complete, handling system of beet, wet & dry pulp, raw and wet sugar  
In order to provide complete system solutions in sugar beet industries,
- NDESCO Technologies utilizes the following in-house capabilities:

### **System Design:**

Our experienced staff that includes material handling, civil, structural, mechanical, and electrical engineers and designers, analyze our client's material handling needs and specifications to develop detailed layouts of the entire system. Equipment

### **Supply:**

- To ensure the reliability of our system, NDESCO Technologies incorporates state of the art

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To ensure the reliability of our system, NDESCO Technologies incorporates state-of-the-art equipment manufactured in house and components supplied by world leading manufacturing companies that provide us with the best technology available in the market.

## **Installation:**

NDESCO Technologies designates a full time project manager to every project to ensure customer satisfaction. Our project manager works closely with an experienced field installation and supervisors to guarantee a quality, on-time installation.

## **Commissioning:**

➤ Experienced mechanical and electrical engineers provide on-site training

➤ and start up services for all projects

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- Experienced mechanical and electrical engineers provide on-site training
- and start-up services for all projects.
- After sale Technical Support: NDESCO Technologies is committed to
- providing total customer service and support. We support all our material handling
- systems installations by offering replacement of worn or damaged parts with high quality
- parts in timely manner. This is part of NDESCO Technologies commitment to total
- customer satisfaction

# NDESCO sugar experience

## Alexandria Sugar Company (Savola group)

Factory capacity was 9,000 ton beet per day.



## ➤ **NDESCO scope of works:**

- ❖ Design, supply, fabricate, erection, commissioning and startup for 37 belt conveyors / 2 bucket elevator / slide gates / 2 rotary valves.
- ❖ Design, supply, fabricate, erection, commissioning and startup for dry soil separator capacity 9,000 ton/day
- ❖ Design, supply, fabricate, erection, commissioning and startup for Turn key emergency line.
- ❖ Design, supply, fabricate, erection, commissioning and startup for walkways handrails for carbonization station.
- ❖ Complete civil works for emergency line.









# CANAL Sugar Company Factory capacity 36,000 ton Beet per day.



## ➤ **NDESCO scope of work :**

- ❖ Design, supply, fabricate, erection, commissioning and startup for complete TIPPING STATION
- ❖ Design, supply, fabricate, erection, commissioning and startup for DIRTY BEET BELT CONVEYOR 1,500 Ton/Hr.
- ❖ Design, supply, fabricate, erection, commissioning and startup for complete WASHING STATION including erection of PUTSH washing equipment.
- ❖ Design, supply, fabricate, erection, commissioning and startup for complete SLICING STATION including erection of PUTSH slicers / sharpening equipment.
- ❖ Design, supply, fabricate, erection, commissioning and startup for CLEANED BEET BUCKET ELEVATOR 1,500 Ton/Hr.
- ❖ Design, supply, fabricate, erection, commissioning and startup for complete TWO CENTRIFUGAL STATION (CVC C & CVC A,B) including erection of FCB centrifugals.

- ❖ Design, supply, fabricate, erection, commissioning and startup for complete BAGGING STATION “8 lines” including supply of complete bagging conveying system& erection of SERVO BERKEL bagging equipment
- ❖ Design, supply, fabricate, erection, PELLETIZING STATION including KAHL equipment erection
- ❖ Design, supply, fabricate, erection, commissioning and startup for Pipe factory
- ❖ Design, supply, fabricate, erection, commissioning and startup for All stainless steel connecting chutes
- ❖ Design, supply, fabricate, erection, 6 Air receivers with capacity 10,15,20 m<sup>3</sup>
- ❖ Design, supply, fabricate, erection, 11 Lime Kiln conveyors
- ❖ Design, supply, fabricate, erection, 2 Lime Slakers “Ø3 m x 20 m”
- ❖ Design, supply, fabricate, erection, 3 Bucket elevators for Pelletizing station
- ❖ Design, supply, fabricate, erection, 3 drag chains for Pelletizing station
- ❖ Design, supply, fabricate, erection, 5 screw conveyors for Pelletizing station



Tipping station **“Biggest in the world”**  
Consist of 10 fixed platforms / 6 movable platforms



Washing station **“Biggest in the world”**  
Width 37m X Length 90m



Dirty Beet Conveyors (Qty.2)  
Capacity 1,500 Ton / Hr.



Clean beet bucket elevator “Biggest in the world”  
Capacity 1,500 Ton / Hr.



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Slicing station **“Biggest in the world”**  
Width 25m X Length 40m X Height 40m



Lime Kiln station equipment **“Biggest in the world”**  
11 conveyors + 2 lime slaker +4 vibrating screens /  
feeders



Lime Kiln station Belt Conveyors  
Qty. 11 Equipment



Vibrating screens - Qty.2



Lime Slakers D= 3m, L=15m



Pressed pulp station **“Biggest in the world”**  
Width 12m X Length 65m X Height 25m



Centrifugal stations (CVC A,B & C)  
**“Biggest in the world”** Width 15m X Length 75m  
Height 15m



Bagging station “**Biggest in the world**” 8 bagging lines  
Width 30m X Length 75m X Height 40m



Final Sugar Drag station – W=1 m & L = 40 m



Bagging conveyors (8 bagging Lines)  
8 intermediate conveyors  
8 Telescopic conveyors



Final Sugar Bagging Hopper – L =48 m, H = 4.5 m



Pelletizing station (5 Pellet lines)  
Width 20m X Length 35m X Height 25m



Pelletizing bucket elevator (3 Equipment)



Pelletizing station (5 Pellet lines)  
Width 20m X Length 35m X Height 25m



Pelletizing bucket elevator (3 Equipment)



Pelletizing station Chain Conveyors – 5 Equipment





Pelletizing station Screw Conveyors – 7 Equipment



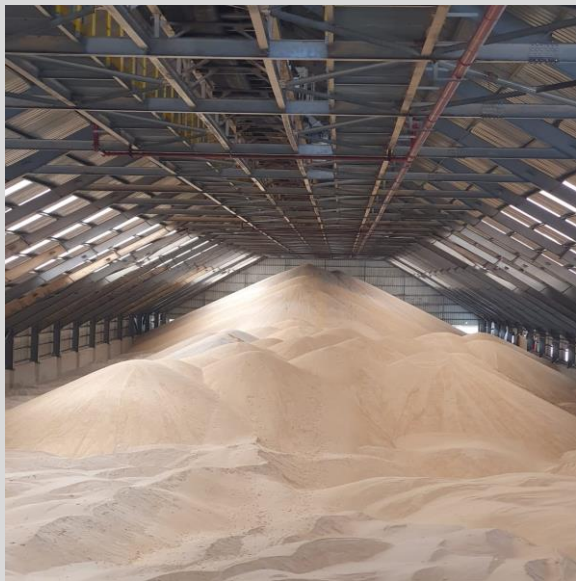
Pelletizing station Slide Gates – 5 Equipment

# ALSHARKYA Sugar Company Factory Capacity 12,000 ton beet per day.



### ➤ NDESCO scope of work:

- ❖ Design, Fabrication, Supply, Erection & commissioning and start up “Turn Key” for raw sugar storage 120,000 capacity including conveying charging by upper conveyor / tripper car with charging capacity 300 Ton/hr. & discharging capacity 600 Ton/hr.
- ❖ Design, Fabrication, Supply, Erection of white sugar storage (75m width – 160m length) with approximate tonnage 500 Ton completely covering with sandwich panels
- ❖ Design, Fabrication, Supply, Erection & commissioning and start up to stacking conveyors for bagging station





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