

### **NHB Ball & Roller Limited**



### **Our Mission**

Our Mission is to provide our customers with best in class products that make a positive difference in their lives.

### **Our Vision**

We believe that our vision *"Leadership Through Quality"* will give us a sustainable advantage in the global market place.



### Contents

- 1. Company Overview
- 2. World Class Manufacturing Journey
- 3. World Class Product (Super Premium)
- 4. Growth Plans



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#### 1. Company Overview

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# The Company

- Manufacturing Balls in India since 1949
- For the year 2018 turnover INR 1,910 Mill (30 million USD)
- 2 manufacturing plants with IATF16949 & ISO 14000 certification
- 8 warehouses globally
- 320 Employees
- Supplying to MNC's Bearing, Automotive & Cosmetic Industry in 15 countries.
- Continuous investment in technology to move up the value chain.

1969	1994	1999	2004	2006	2008	2012	2012	2015	2018
NHB Amalsad	NHB Billimora	Hoch GMBH Germany	Thomson Assets USA	Thompson Assets Mexico	SKF (B) Assets India	SKF (P) Assets India	NHB plants reorg.	FAG (I) Assets India	KBR, Korea Acquisition
NHB	NHB		THOMSON	THOMSON	SKF	5KF		FAG	(주)KBR



# The Company Profile (AMALSAD)

- Plant In Gujarat State, Navsari District
- Bearing / Automotive industry
- □ Land 31832 Sq Meters Area
  - Cover area 11312 Sq Mtr
- □ 215 Employees



- □ Revenue INR 155.8 Cr (24 million USD).
- 4 mm to 27 mm Diameter Balls
- Raw material (SAE52100) Daido (Japan), Posco

(Korea), Ascometal (France)



# The Company Profile (BILLIMORA)

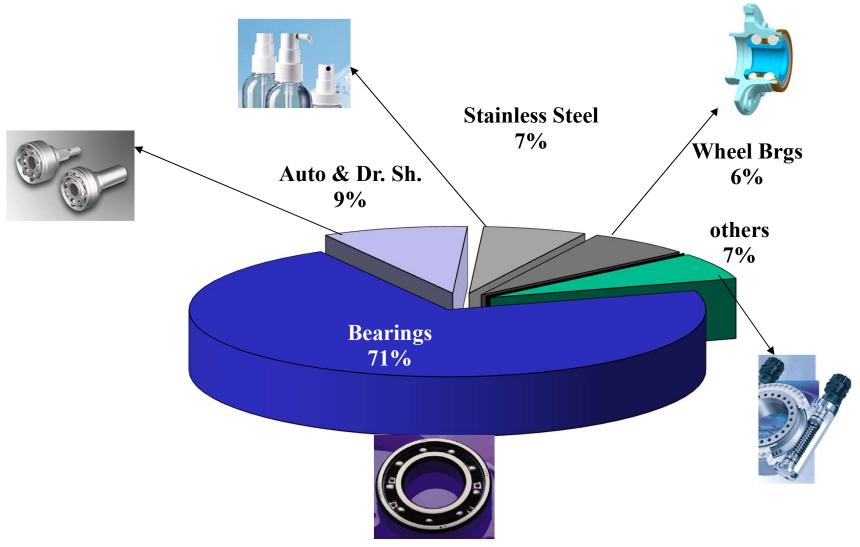
- Plant In Gujarat State, Valsad District
- Automotive, Cosmetic and Food processing
- Land 12511 Sq Meters Area
  - Cover area 3748.04 Sq Mtr
- □ 105 Employees



- □ Revenue INR 35.2 Cr ( 5.5 million USD)
- 1.9mm to 13mm Diameter Balls
- Raw material SAE52100, Stainless, Aluminum, Brass & S2 (Rock Bit)



## **NHB** Customer segmentation





### **Automotive Customers**

OEM's	TIER –1			
Product Customers	Product Customers			
Name   Image: State of the	SKF, SCHAEFFLER, NBC			
MARUTI	Image: Constraint of the second sec			
ΤΟΥΟΤΑ	THOMSON			
FORD	GKN			
HERO	NEXTEER			
VAMAHA	AUTOLIV			
	RING + AQUA			



### **Customers**

Automotive Custor	ners – TIER 2	Dispenser Pump customers			
Product	Customers	Product	Customers		
	Name	🛓 🛓 👗 🛛 💈 🎍 🗛	EMSAR IT		
	CONTINENTAL				
	BORGWARNER		REXAM		
	BOSCH				
Dispenser Pump c	ustomers		UNILEVER		
Product	Customers Name				
	WESTROCK		FIABILA		
		🍶 👗 እ	COSTER		
	APTAR				

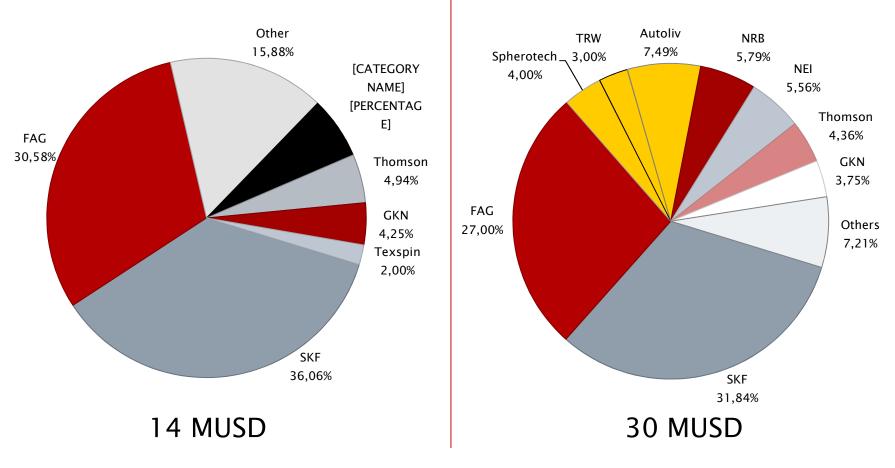
# Awards & Appreciations: 2017-18





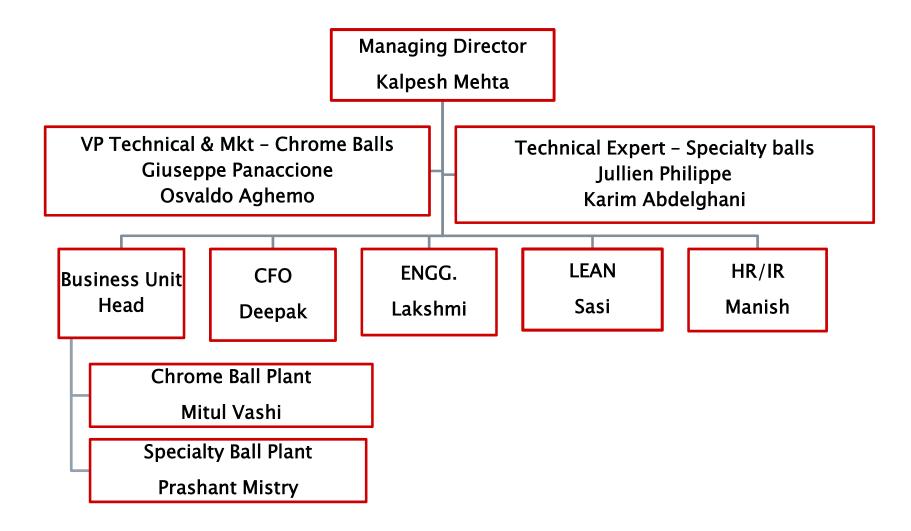
## **Customer Split**

2013



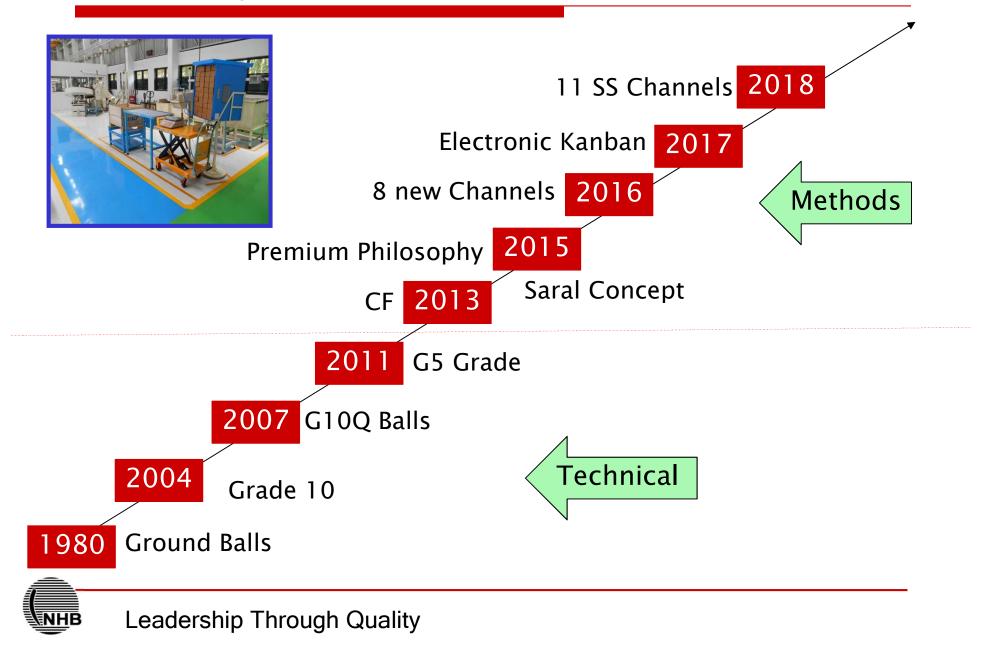
2018

# **Corporate Organisation Structure**





## Journey towards Global Supplier



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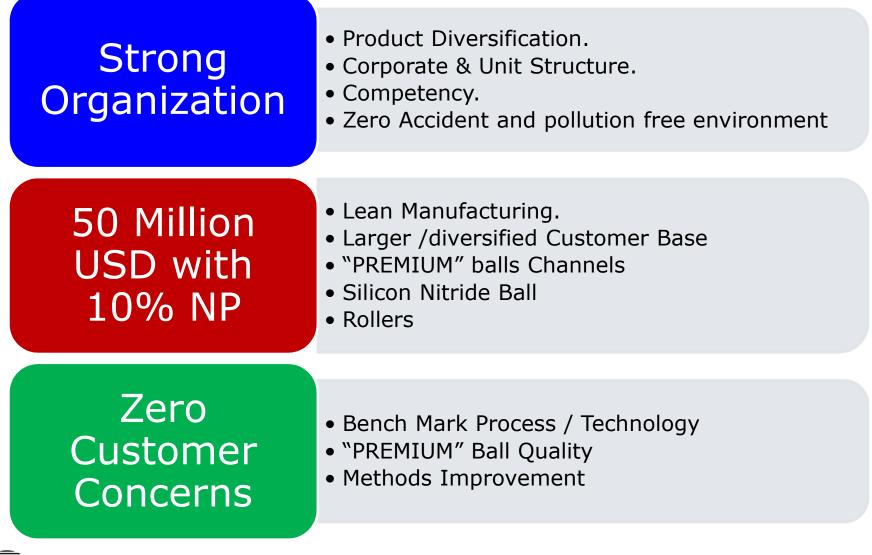
#### 2. World Class Manufacturing Journey

#### 3. World Class Product (Super Premium)

#### 4. Growth Plans



# Mission – 2020 (Formulated in 2012)





## Results so far – 2012-2018

Strong Organization

50 Million USD with 10% NP

#### Zero Customer Concerns

- 1. New products -10 new products in cosmetics, food and pharma
- 2. Market leader Spray pumps and retractor
- 3. Fair Employer- Performance based incentives
- 4. Productivity Manpower rationalized from 620 to 320
- 5. Communication Speed 3 layered Lean structure from 7 layers
- 6. Accountability Operators measured on skill matrix
- 7. Cultural TPM started at both plants.



## Results so far - 2012-2018



#### Zero Customer Concerns

- 1. Sales from 20 to 36 MUSD (stable EX rate). YoY 10% CAGR
- 2. Key customers increased from 43 to 65
- 3. Profit before tax improved from 2% to 5%
- 4. Cash flow transformed into positive
- 5. Saral Concept Simple/Straight
  - TPT reduced from 21to 3 days
  - WIP Reduced from 32 to 17 days.
  - Productivity improved 5.6 to 13kg/man Hr



## Results so far – 2012-2018

Strong Organization

50 Million USD with 10% NP

#### Zero Customer Concerns

- 1. Discipline Complaints reduced from 132 to 9/year.
- 2. Electronic Kanban OTD improved from 62% to 85%.
- 3. Established 2 overseas W/H for JIT deliveries to customers.
- 4. "Best in class technology" w.r.t. to global competitors.
- 5. Customer Satisfaction
  - "Supplier of the YEAR" award by Schaeffler India in 2018
  - Award from SKF India for quality in 2018.
  - 3 years "Best Quality" from Nexteer Automotive.



### SARAL Channel 1 - 7.938 mm balls





### SARAL Channel 4 - 4.762 mm balls



Optical & Eddy-Current Scanners



### SARAL Channel 1 - 7.938 mm balls



Packaging



#### Installation of a Continuous Heat Treatment furnace

#### Continuous furnaces n. 2





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- 1. Premium Philosophy
- 2. Super Premium Quality



We help make Bearings more silent



# Why Super Premium

- To ensure silent bearings (very noise sensitive bearings applications).
- □ Q44/Explorer/Gen C/Low DB









# What is "PREMIUM" Philosophy

- Highest Standard in ball manufacturing
- Zero defect / No deviation approach
- Product release criteria changed
- High level of standardization and repeatability
- Tighter tolerances at all processes
- Outstanding geometry





## How Super Premium - Developed

### Benchmarking of best in class

- Physical attributes
- Packing
- Preservation
- On channel observations
- Capability studies & DOE in manufacturing process.

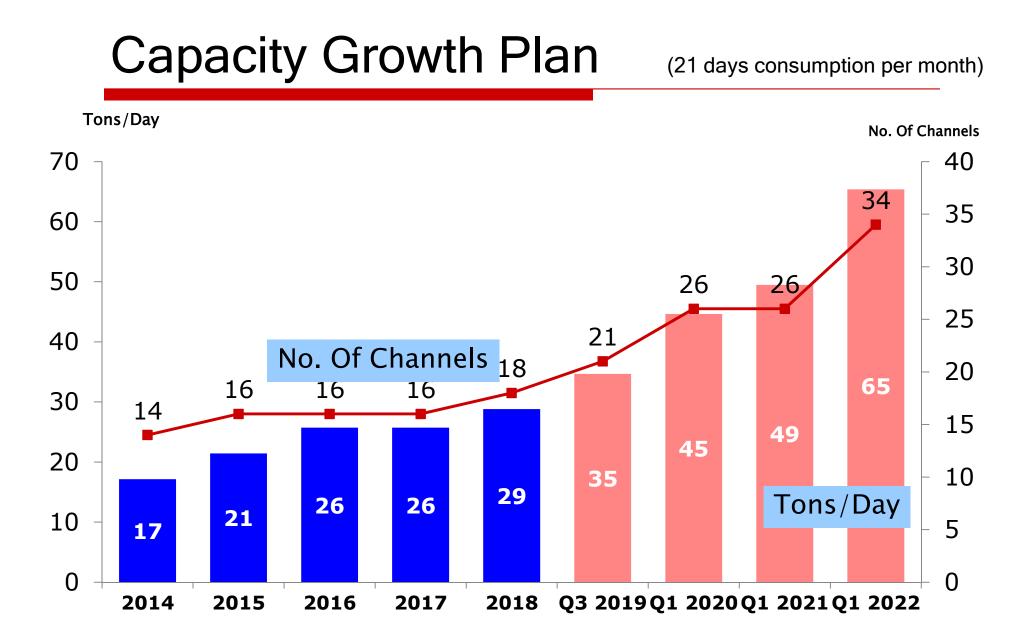
### **TARGET : NHB SUPER PREMIUM**



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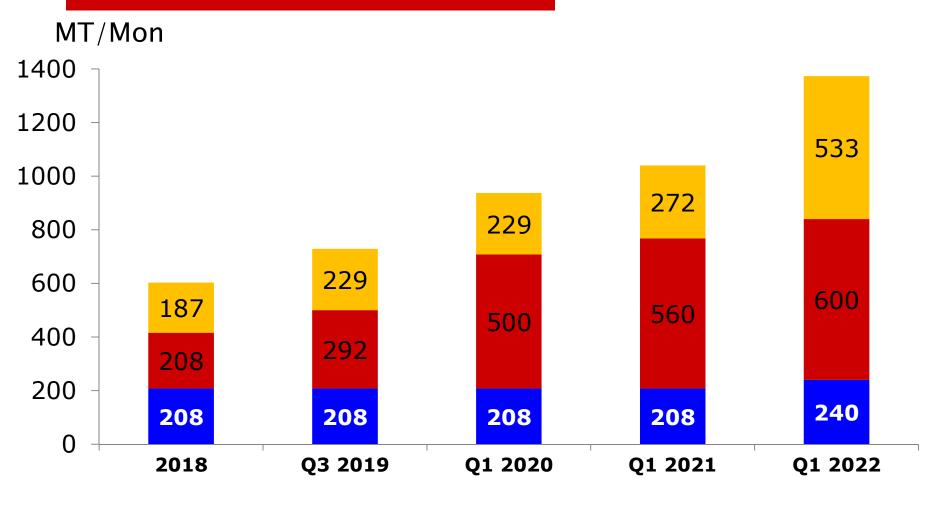
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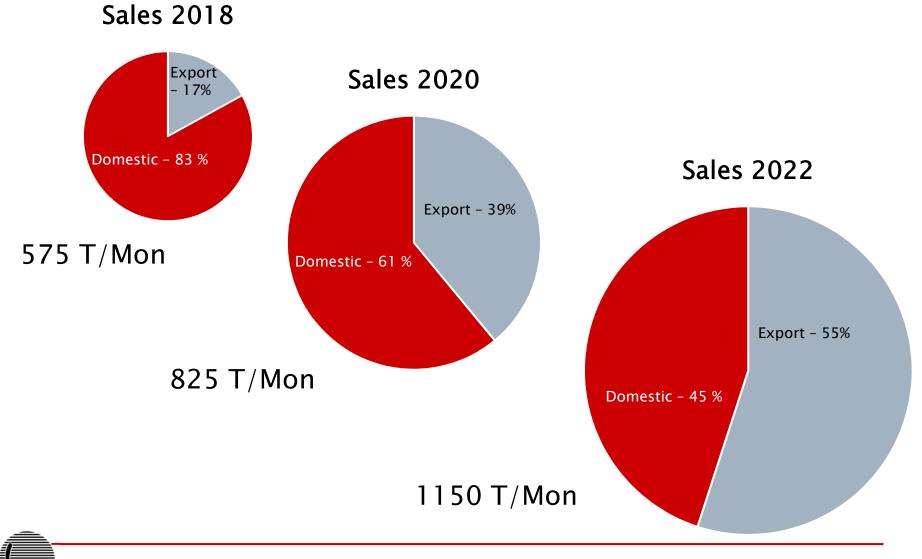
# Ball range growth plan



■ S (3.9 to 10 mm) ■ M (10 to 15 mm) ■ B (15 to 27 mm)



## NHB Sales Mix





NHB

## New JIT warehousing

#### Old Warehouses

- 1. <u>India</u>
  - A. Bangalore
  - B. Haridwar
  - C. Jaipur
- 2. <u>Europe</u>
  - A. Airasca (SKF)

#### New Warehouses

- 1. <u>Europe</u>
  - A. Fulda Germany
  - B. Hamburg Germany
- 2. <u>USA</u>
  - A. Detroit



# THANK YOU



