

#### ZEN TECHNOLOGIES LIMITED

Certified ISO 9001:2015, ISO 27001:2013, ISO 14001:2015, CMMI ML5 Regd. Office: B-42, Industrial Estate, Sanathnagar Hyderabad – 500 018, Telangana, India Phone: +91 40 23813281, Fax No: +91 40 23813694 Email: info@zentechnologies.com Website: www.zen.in Corporate Identity Number: L72200TG1993PLC015939

Date: September 5, 2023

To BSE Limited Phiroze Jeejeebhoy Towers Dalal Street Mumbai- 400001 Through: BSE Listing Centre

Security Code: 533339

J

To

National Stock Exchange of India Limited Exchange Plaza, C-1, Block G,

Bandra Kurla Complex,

Bandra (E), Mumbai – 400 051

Through: NEAPS

Symbol/Security ID: ZENTEC

Dear Sir/Madam,

**Sub: Investor Presentation** 

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With reference to the subject cited above, please find the enclosed Investor Presentation.

The same information is also available on the website of the Company: https://www.zentechnologies.com/investors

Kindly take the same on record and acknowledge the receipt

Thanking You.
Yours sincerely,
For Zen Technologies Limited



M. Raghavendra Prasad Company Secretary and Compliance Officer M.no. A41798

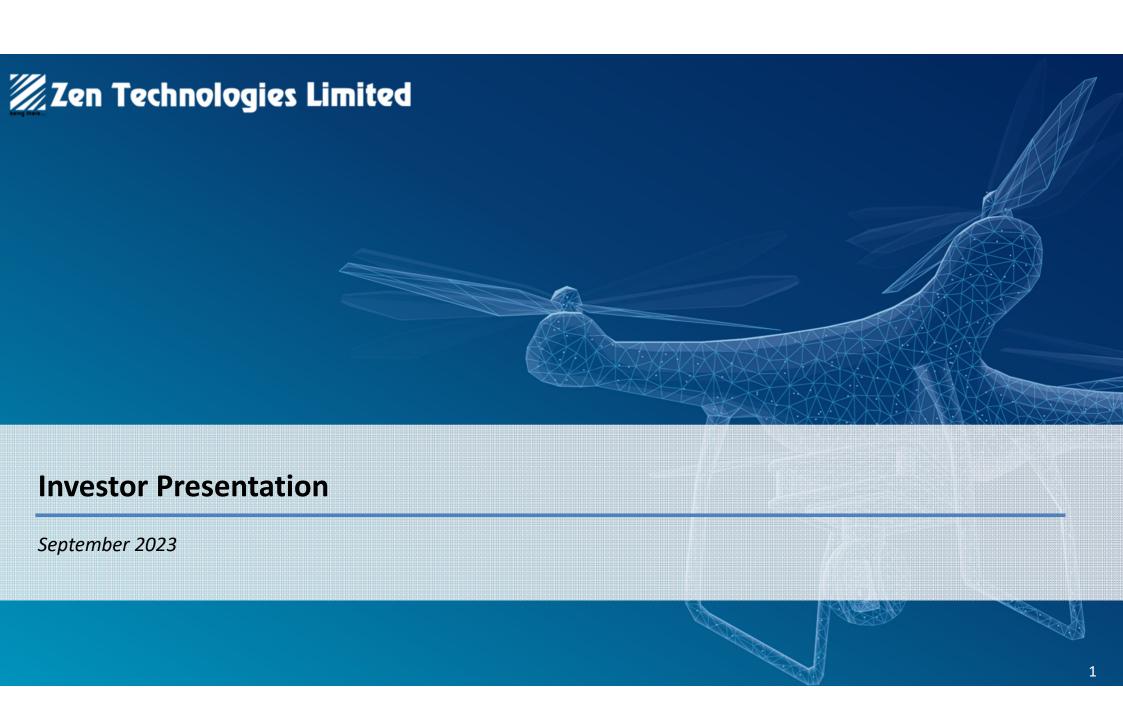
Works: Plot 36, Hardware Park, Near Shamshabad International Airport, Hyderabad - 501 510, Telangana, India











## Zen Technologies – Solutions Offered

Protection Division	Description	Protection Solutions
Training & Simulation	<ul> <li>Designed to meet the training requirements of the mechanised forces in field craft,</li> <li>battle drills, tactical and gunnery procedures</li> </ul>	
Live Simulation	<ul> <li>Solutions include TacSim indoor, Combat Training System, Shoot-Edge, etc.</li> </ul>	
Virtual Simulation	<ul> <li>Designed to train for real life situations in a virtual scenario</li> <li>Solutions include Rotary Wing Simulator, Medium Machine Gun, Automatic Grenade Launcher etc</li> </ul>	
Live Ranges	<ul> <li>Designed to provide training for air-to-ground weapons delivery</li> <li>Solutions include Containerized indoor shooting range, tank targets, tank zeroing systems etc.</li> </ul>	
Anti-Drone Systems	<ul> <li>Advent of drone technology in warfare, huge scope of developing anti-drone technologies</li> <li>Inducted into Indian Armed Forces As war and cross border threats intensify</li> </ul>	

Training Simulators & Anti-Drone Systems made with high end technology solutions makes Zen Technologies a distinct & niche player in the global defence industry

#### Competitive Advantages - Bet on Capability to Innovate

- IP driven advantage (High IP Content and low BOM 15-35%)
- 130+ Patents filed of which 50 have been granted.
- Less dependence on imports for supply chain.
- 6 | 1 +\* Strong Human Capital
- Effective Virtual demo saving cost and time
- Asset light business Model
- Diverse Customer Base 100+ Government Customers
- 90% orders from Repeat Customers Customer Stickiness

## Zen Technologies – Revenue Streams

#### **Training Simulation Equipment**

#### **Counter-Drone Solutions**

#### **Annual Maintenance Contract**





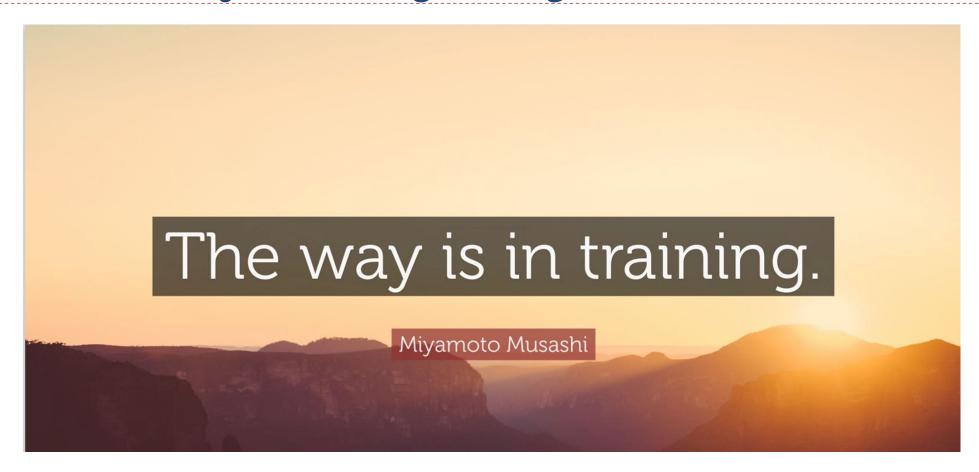


- Leader in Defence Training Solutions
- Infrequent but large orders
- ~90% of order from repeat customers
- Remote Demonstration

- Anti-drone systems are used to detect and/or intercept hostile drones
- System can detect and deactivate drones upto 20-km radius (depending on the size of the UAV)
- Remote demonstration getting positive response
- Expecting big orders in the coming years

- Recurring revenue stream
- New simulator sales leading to growth in revenues from AMC
- Growing service revenue from AMC ensuring sustainability
- Reached about ₹ 40 crores of annual AMC revenues
- May achieve ₹ 150 crores of AMC annual revenues by 2027-28

#### The Book of Five Rings - Miyamoto Musashi



If you think training is important for Indian army, there is only one good bet in India

30 years of singular focus on training and simulation!

#### And...

120+ total Staff dedicated to R&D

Huge legacy libraries of Reusable Software, Electronics and Mechanical modules

Huge Collection of Weapon replicas and their physics

30 years worth of Data being used in AI to reduce training time

Extremely Leveraged R&D – Only 73 Cr spent in the last 5 years

# Zen's Unique Value Chain Designed to Scaleup

R&D

Engineering

Manufacturing (Outsourced) - Capex Minimized

On-site Installation and Training

Warranty

AMC (More on AMC later)

# Regulatory Tailwinds



# Buy Indian IDDM (Late Sri Parikkar) – 2016 DPP and 2020 DAP

Recognition of the Importance of Training -Simulation Framework from **MOD** 

#### **Policy**

Ministry of Defence





#### MoD promulgates framework for increased utilisation of simulators by the three Services & Indian Coast Guard

Posted On: 23 SEP 2021 3:11PM by PIB Delhi

#### Kev Highlights:

- Aim is to transform to simulation-based training across all military domains
- To achieve cost effective, safe and smart training
- · Emphasis on indigenous design & development
- Outsourcing of operation & maintenance of simulators to Indian companies
- Applicable to all types of in use/to be procured simulators

Ministry of Defence (MoD) has promulgated the framework for enhanced and synergised utilisation of simulators by the three Services and the Indian Coast Guard (ICG). The overarching vision is to transform to simulation-based training across all military domains for combatants, leaders, maintainers, administrators, life science experts, procurement and financial agencies and thus achieve cost effective, efficient, safe, fast-paced and smart training.

#### **Policy**

The framework lays emphasis on indigenous design & development as well as outsourcing of operation and maintenance of simulators to the Indian companies. The framework has the following goals and objectives:

- To reduce live equipment utilisation.
  - To ensure capability plans cater for phased induction of simulators.
  - To duly factor requirement of simulators at the planning stage of procurement.
  - To coordinate among various agencies of the Government and factor combined requirements of simulators during procurement.

The policy will be applicable to all types of simulators in use/to be procured in the future by the Armed Forces. Avenues of application of simulation technology will be constantly explored to achieve a high level of op preparedness while reducing expenditure on training and preserving the life of equipment.

A detailed action plan with assigned responsibility to all the constituents of MoD and industrial association will be followed to revitalise the exploitation of simulators by the three Services and the ICG. The Indian agencies involved in development, production and maintenance would be engaged by the Services to ensure highest level of indigenisation for production, deployment and maintenance of the military simulators.

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Agnipath Yojana - Effective training of Agniveers at lesser time and cost

Four 'Positive Indigenisation' lists prohibit import of 12 products developed by Zen.

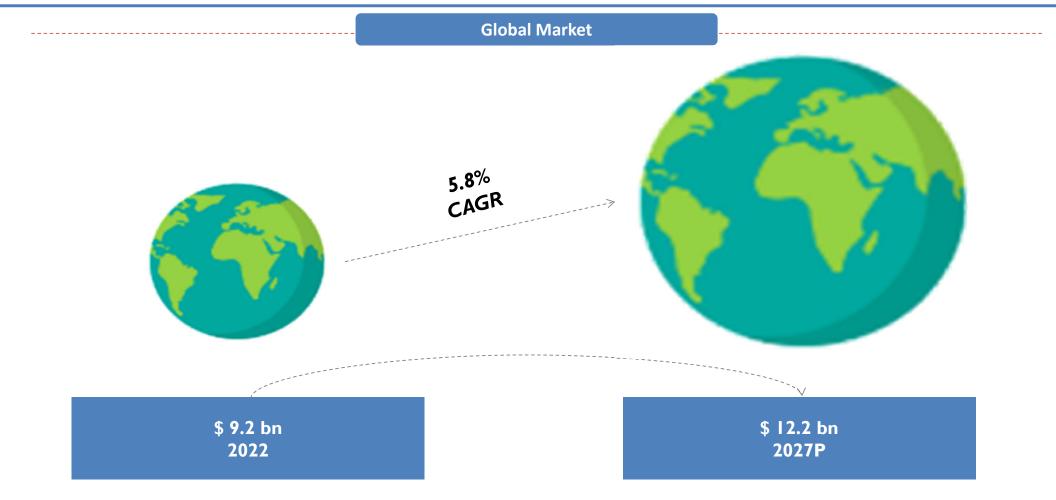
Aggressive
#Atmanirbharta push
towards
indigenisation
through iDEX and
Make-2

# The order book position of the simulators over the years

Order	(In INR	Crs)					
					As on		
	2020	2021	2022	2023	Sept 5,		
					2023		
Products	65.96	72.30	183.74	240.20	590.96		
AMC	94.83	120.37	115.63	145.61	228.25		
160.79 192.67 299.37 385.81							

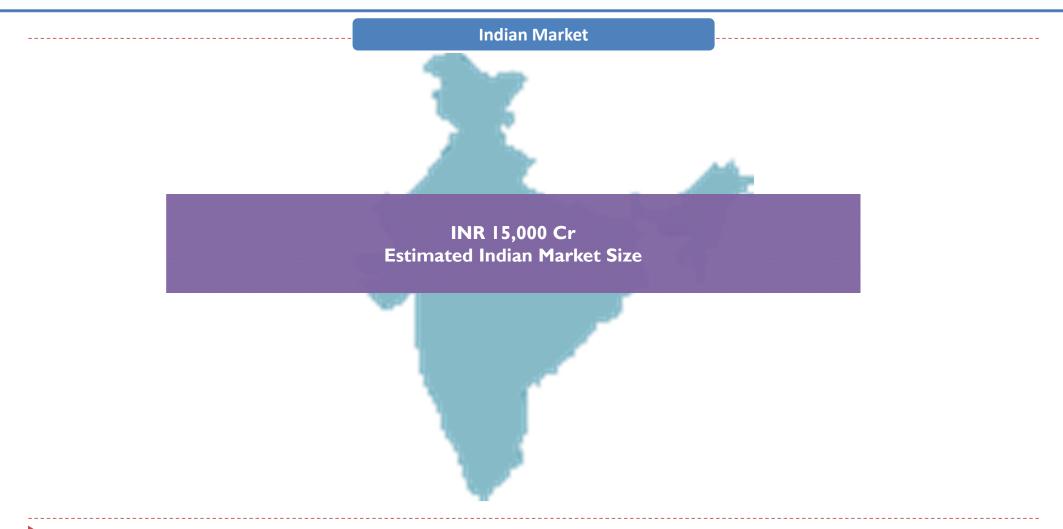
## Military Training Simulators: A Snapshot

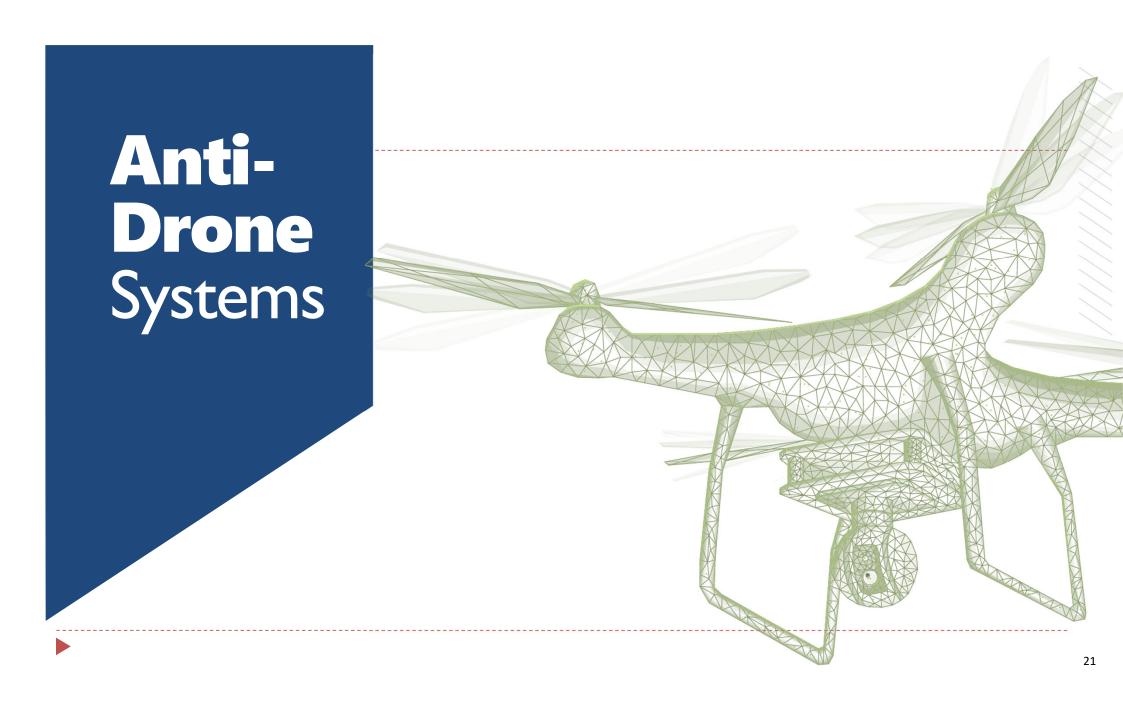




## Military Training Simulators: A Snapshot



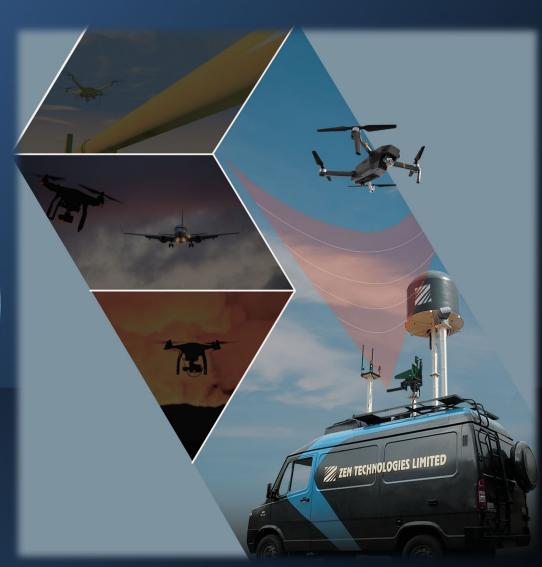




# Most frictionless product - 3 decades of Zen

Drones herald a
Tectonic Shift in
Warfare – similar to
swords to gun
fighting

## Developed Anti-Drone System with Soft-kill as well as Hard kill option



#### **Article published on India Today**



#### **Article published on India Today**



The optical sights spotted the rogue drone hovering over the target area nearly 500 metres away. The gunners studying the target in their command post gave the order to engage the target. Within seconds an L-70 gun slewed to towards the left and shot off a four-round clip into the sky.

The proximity fuses inside the 40 mm shells spinning through the air exploded, creating a cloud of thousands of tungsten fragments which shattered the drone. Four days later, on September 21, the army repeated the test at the Army Air Defence College on the seafront at Gopalpur, Odisha, and successfully intercepted another 0.6 metre wide commercially purchased drone.

This is believed to be the first test of the upgraded L-70 against small drones. Part of a project started around a year ago by the Army Air Defence Corps, the system interfaces a counter-drone system made by a Hyderabad-based private player with the army's in-service L-70 air defence gun. The counter-drone system made by Hyderbad-based Zen Technologies Ltd is similar to the one ordered by the Indian Air Force last month. The IAF placed a Rs 120 crore order for an unspecified number of counter-drone systems from the same firm. The Zen-Anti Drone Air Defence Systems or ZADS variant ordered by the IAF, is primarily a 'soft kill' system. It detects and jams radio frequency emissions from the drone between 10 metres and 10 kilometres. The firing trials in Gopalpur are the first use of it as a 'hard kill' system, where it physically destroys the drone.



## ANTI-DRONE SYSTEM

RF BASED DRONE DETECTOR

**ZEN TECHNOLOGIES LIMITED** 

AIRPORTS & COUNTRY BORDERS

OIL & GAS INDUSTRIES

RADAR DETECTION

PUBLIC SPACES
& INFRASTRUCTURES

VIPS' / HOME LAND SECURITY

VIDEO BASED DRONE IDENTIFICATION & TRACKING

DATA FUSION & COMMAND CENTRE

DRONE RF JAMMER

HARD KILL INTERFACE

Video based Drone 

Identification & Tracking

MODULE OF MULTI SENSOR SETUP INCLUDE:

RF Detector Antenna System

> Direction Jamming Antenna

> > Omni Jamming Antenna



Anti-Drone System

Mounted On Vehicle

### The order book position of the ADS over past two years

	(In INR Crs)		
	2022	2023	As on Sept 5, 2023
Product	131.35	87.28	456.11
AMC	-	-	_
	131.35	87.28	456.11

▶ Mindset –

Infinite Game Player

VS

Finite Game Player





#### Current → Future



- ~Rs 40 Crores
- ▶ By 2025 AMC would increase to ~70 Crores, as per current Order Execution
- Order book worth ~Rs 1,270 Crores
- ▶ AMCs expected to increase to ~Rs 150 Crores by 2027-28

#### Winning new orders on back of continuous R&D efforts





Sr. No	Description	Month	Order Size (In INR Crs)
I	Supply of <b>Anti Drone System</b> to MoD	July-23	160
2	Significant order win in the <b>Export Market</b> (includes both Training Equipment and ADS)	July-23	340
3	Supply of <b>Training Equipment</b> to MoD	Aug-23	55
4	Supply of <b>Training Equipment</b> to MoD	Aug-23	72
5	Supply of <b>Training Equipment</b> to MoD	Sept-23	105
			722

date.

## Anti-Drone Industry: Key Growth Drivers



# INCREASED DEMAND IN MILITARY AND NATIONAL SERVICES

• Due to the asymmetric damage the drones can do, Anti-drone systems will continue to see growth in the demand.

## Other Strategic Priorities





# Increasing focus on International Markets

- Keen focus on **export markets** has resulted in brisk growth in export markets
- Fast clearances from Government for exports will further act as tailwind

Source: Industry Reports; News Articles

## Other Strategic Priorities



#### **Expansion through Inorganic Growth**

- Actively evaluating **potential targets** for **acquisition** to further expand the business in adjacencies – market and product

Source: Industry Reports; News Articles

## Other Strategic Priorities

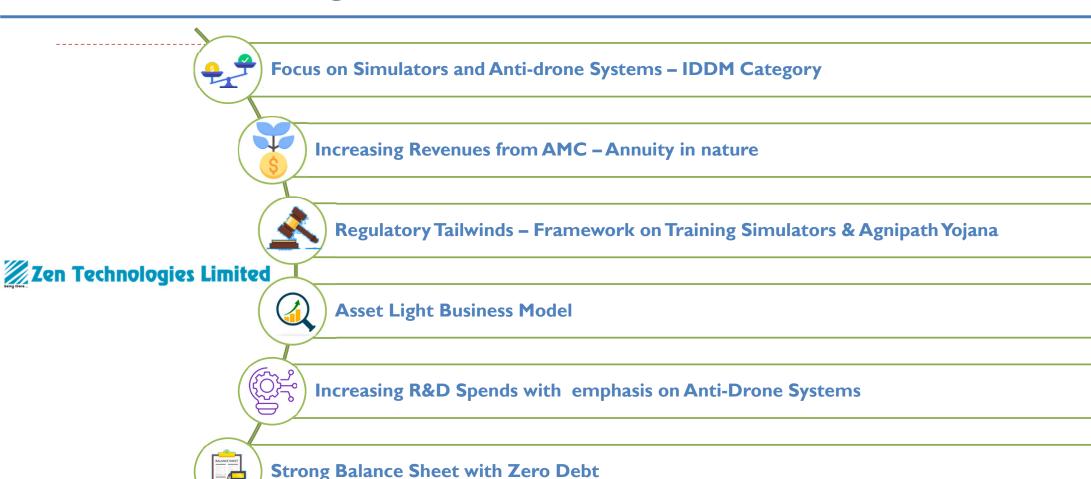


#### **Sustainability**

- On World Environment Day, June 5 2023, collaborated with TERI\* and released a report on how simulators can enhance sustainability in the armed forces.
- Utilizing simulators costing Rs 15Cr for one particular type of weapon platform over a 30-year period can result in savings of ~Rs 380 crore

Note -\*TERI =The Energy and Resources Institute

## Zen Technologies - Investment Merits



## Distinguished Board of Directors (1/2)



Mr Ashok Atluri
Chairman & Managing Director

- First generation entrepreneur & visionary founder of Zen Technologies
- He is a PG Diploma holder in Applied Computer Science
- He was awarded the title of "Small Scale Entrepreneur of the Year" by the Hyderabad Management Association in 1998



Mr Kishore Dutt Atluri
Founder & Joint Managing Director

- Mr Kishore Dutt Atluri is a Post graduate in Computer Application from University of Hyderabad
- He co-founded Zen Technologies in 1993 with primary objective of designing and developing training simulators for defence and security forces
- He has over 21 patents in his name and he is also in-charge of all defence marketing activities at Zen
- He has a deep insight of simulation technology and its application for defence and the homeland security



Ms Shilpa Choudari
Whole Time Director

- Ms Shilpa Choudari holds a Bachelor's Degree in Technology & a Master's degree in Finance and Foreign Trade
- She has worked as a research associate and later as an AGM Sales and Marketing which has given her a deep insight into Zen's products
- She has published many articles in over 10 books on different subjects



Mr M Ravikumar Whole Time Director

- Mr. M Ravikumar is a technocrat and an expert in systems programming and robotics
- He has 20 plus years of experience in the software industry
- He is actively involved in the design and development of the present range of simulators for the company in his role as Head, R&D
   Division
- He is the person behind the successful development of Zen SATS® SL, Zen AWeSim®, Zen TacSim® and ACTS

## Distinguished Board of Directors (2/2)



**Dr R K Tyagi**Independent Director

- Dr. R.K. Tyagi is a Ph.D (Doctorate in Management Studies) from Agra University & has completed his Engineering (Electronics & Communication) from IIT, Roorkee, MBA (Marketing) from IGNOU, New Delhi
- He has 46 years plus experience including 14 years of board level positions in various organisations.
- His strengths are organisational strategy and building strategical alliance, leadership and team development, growth/turnaround specialist in business operations, corporate governance and CSR, R&D, technology, Investment and risk management



Dr Ajay Kumar Singh Independent Director

- Dr. Ajay Kumar Singh is a **Post Doctoral Fellow** in **Social Marketing** from **ISB**, **Hyderabad** and also holds a Ph.D.
- He is a recipient of the prestigious "The Rashtrapati Rovers Award" awarded to him in the year 2000
- Dr. Ajay Kumar Singh has extensive years of experience across functions ranging from leadership roles, **program planning and designing**, implementation, teaching, monitoring and evaluation, business development and consulting
- Dr. Singh is also a member of the Academic Advisory Council of the Institute of Public Enterprise, Hyderabad Telangana



Mr Amreek Singh Sandhu Independent Director

- Mr. Amreek Singh is an M.Com, LL.B., MBA, FCS, FCMA, EPAF-IIM, with over 27 years of industry experience
- He was recognised with best CFO award by 9.9 Group (CFO India) in the year 2017 (Risk Management) and 2018 (Cash Management)
- He also published an Article on Inflation and Economic Recession by "CFO Asia" before economic recession in 2007



Ms Sirisha Chintapalli Independent Director

- Ms Sirisha Chintapalli is an Associate Member of the Institute of Company Secretaries of India and the Institute of Cost Accountants
  of India
- She has more than I I years of exposure and experience in the fields of legal, finance, secretarial, insolvency and other regulatory compliance matters
- She has successfully handled and completed various **issues** / **assignments** / **mergers** and is well-versed with various statutes involved in the --day-to-day operations of the Company

# Strong Financial performance: Profit & Loss Statement (Standalone)



Income Statement (INR mn)	FY19	FY20	FY21	FY22	FY23	Q1FY24
Net Sales / Income from operations	922	1,470	496	537	1,614	1,324
Expenditure						
Cost of raw materials consumed	373	251	75	145	636	162
Changes in inventories of FG, WIP & SIT	-116	139	4	-62	-228	193
Manufacturing Expenses	50	58	32	41	76	19
Employee Benefits Expenses	157	167	136	148	228	107
Other Expenses	234	220	171	246	389	182
Total Expenses	697	834	418	517	1,102	663
EBITDA	225	636	78	20	513	662
EBITDA Margin (%)	24%	43%	16%	4%	32%	50%
Finance Cost	48	32	10	14	20	4
Depreciation & Amortization Expenses	38	38	40	37	44	15
Other Income	31	19	29	53	71	26
РВТ	171	586	57	19	539	670
Income Tax	-21	-19	16	-2	163	199
PAT	192	605	41	20	376	471
PAT (Margin)	21%	41%	8%	4%	23%	36%

## Strong Financial performance: Balance Sheet (Standalone)

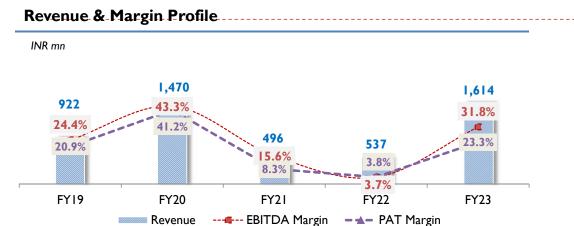


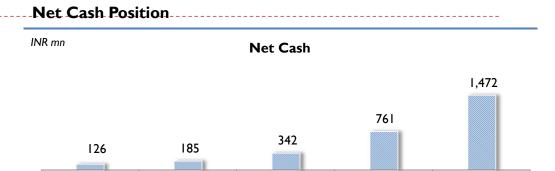
Balance Sheet (INR mn)	FY19	FY20	FY21	FY22	FY23
EQUITY & LIABILITIES					
Share Capital	77	77	80	80	80
Reserves & Surplus	1,333	1,910	2,052	2,837	3,112
Non Current Liabilities					
Long term borrowings	88	2	2	31	1
Deferred tax liabilities	14	16	17	18	23
Other Non Current Liabilities	-	-	-	-	-
Current Liabilities					
Short Term Borrowings	261	6	7	92	58
Trade Payables	75	51	25	33	37
Other Current Liabilities	387	71	55	487	1,154
Total Liabilities	2,235	2,134	2,236	3,579	4,464
<u>ASSETS</u>					
Non Current Assets					
Tangible Assets	629	644	621	591	674
CWIP	4	-	-	25	19
Investments	134	159	241	243	243
Other Non Current Assets	135	299	218	216	171
Current Assets					
Cash & Bank	126	185	342	761	1,472
Short term loans/advances & other current assets	122	299	549	1,404	812
Inventories	353	104	92	142	411
Sundry Debtors	734	444	174	195	662
Total Assets	2,235	2,134	2,236	3,579	4,464

#### Robust historical financial performance



FY23





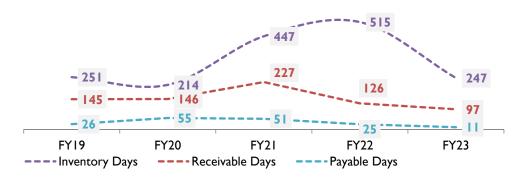
FY21

■ Net Cash

FY22

#### Working capital cycle

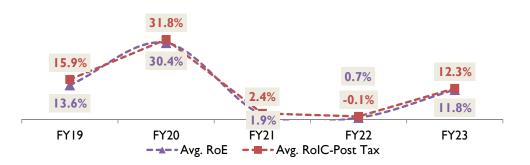




#### **Return Ratios**

FY19

FY20



# Strong Financial performance: Profit & Loss Statement (Consolidated)



Income Statement (INR mn)	FY19	FY20	FY21	FY22	FY23	Q1FY24
Net Sales / Income from operations	922	1,493	546	698	2,188	1,324
Expenditure						
Cost of raw materials consumed	376	264	102	246	785	162
Changes in inventories of FG, WIP & SIT	-116	110	-14	-114	-199	193
Manufacturing Expenses	47	58	42	41	76	19
Employee Benefits Expenses	166	196	156	210	359	107
Other Expenses	283	237	187	270	441	182
Total Expenses	755	866	473	652	1,462	663
EBITDA	167	627	74	46	726	662
EBITDA Margin (%)	18%	42%	14%	7%	33%	50%
Finance Cost	48	33	11	15	41	4
Depreciation & Amortization Expenses	38	46	50	48	61	15
Other Income	31	19	30	54	72	26
РВТ	112	567	44	33	717	670
Income Tax	-21	-19	16	7	218	199
PAT	133	586	28	26	500	471
PAT (Margin)	14%	39%	5%	4%	23%	36%

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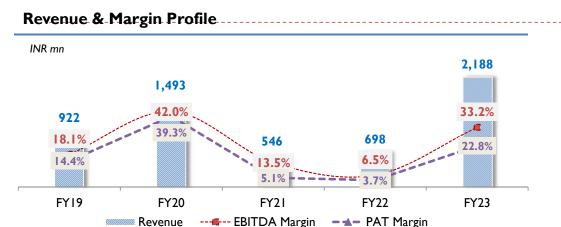
# Strong Financial performance: Balance Sheet (Consolidated)

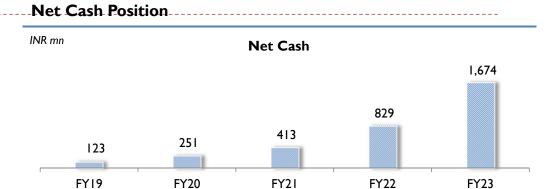


Balance Sheet (INR mn)	FY19	FY20	FY21	FY22	FY23
EQUITY & LIABILITIES					
Share Capital	77	77	80	80	80
Reserves & Surplus	1,229	1,790	1,965	1,978	3,082
Non Current Liabilities					
Long term borrowings	33	-	14	12	42
Deferred tax liabilities	-	-	-	-	-
Other Non Current Liabilities	-	1	-	-	-
Current Liabilities					
Short Term Borrowings	261	П	7	93	59
Trade Payables	81	45	23	29	67
Other Current Liabilities	293	63	23	534	1,094
Total Liabilities	2,185	2,141	2,233	3,690	4,737
ASSETS					
Non Current Assets					
Tangible Assets	630	650	617	591	680
CWIP	4	-	-	25	19
Investments	78	22	22	22	22
Other Non Current Assets	78	22	22	22	7
Current Assets					
Cash & Bank	123	251	413	829	1,674
Short term loans/advances & other current assets	1,215	1,586	2,171	2,440	2,690
Inventories	353	140	147	250	490
Sundry Debtors	734	465	186	317	854
Total Assets	2,185	2,141	2,233	3,690	4,737

#### Robust historical financial performance (Consolidated)



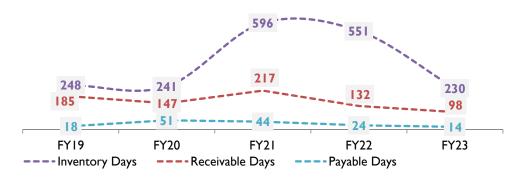




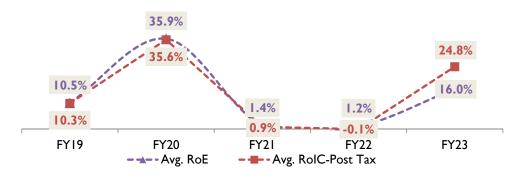
■ Net Cash

#### Working capital cycle





#### **Return Ratios**



## Thank You

#### Disclaimer

Certain Statements in this presentation concerning our future growth prospects are forward-looking statements, which involve a number of risks and uncertainties that could cause actual results to differ materially from those in such forward-looking statements. The risks and uncertainties relating to these statements include, but are not limited to, risks and uncertainties regarding fluctuations in earnings, intense competition, political instability and general economic conditions affecting our industry. The company does not undertake to update any forward-looking statement that may be made from time to time by or on behalf of the Company



#### Afzal Malkani

Chief Financial Officer cfo@zentechnologies.com Zen Technologies

#### **Diwakar Pingle**

Investor Relations Advisor diwakar.pingle@in.ey.com Ernst & Young

#### Abhishek Mehra

Investor Relations Advisor abhishek@theinvestmentlab.in TIL Advisors Private Limited