

Data Patterns (India) Limited

Investor Presentation Q4 and FY23

May 2023

DATA PATTERNS

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1	CMD's Message	4	FY23 Order Book Build Up
2	FY23 Achievements	5	Financial Performance
3	Outlook for Next 2 Years	6	Corporate Overview



Mr. Srinivasagopalan Rangarajan Promoter, Chairman & Managing Director

'This year we achieved excellent results with a 32% YoY growth in PAT. Our order book is up 94% at Rs 924 crores. We have also made significant investments on human capital and infrastructure during the last year. As communicated at the time of IPO, we have smoothened the business. Accordingly, the impact of Q4 on revenues have reduced from 70% in FY20 to 41% currently. As a result, we can see that full year growth is now more representative of our performance. Aligning with the sectoral opportunities, we are actively pursuing new product development. With the successful completion of the QIP of Rs.500 Cr., we have positioned ourselves for substantial revenue growth through new products in the domestic and international markets in the coming years.'

FY23 Highlights: Revenues up 1.5x; Highest ever order inflow



Strong order book as on 31 st March 2023 at Rs 9,241 mn	Order inflow in FY23 of Rs 9,014 mn, grew 3x YoY
Revenue grew 46% YoY to Rs 4,534 mn	
EBITDA showed 22% growth at Rs 1,718 mn	PAT at Rs 1,240 mn, 32% increase YoY
Gross Margins at 62% and EBITDA Margins at 38%	
Strong Balance Sheet; Net Debt Free Company	Revenue CAGR: 36%; EBITDA CAGR: 61% over FY19-FY23
Return Ratios - RoE and RoCE at 17% and 22% respectively without QIP funds	Cash and cash equivalents – Rs 6,825 mn
New Manufacturing facility is commissioned in Q4FY23	Rs 181 mn Dividend Paid ; DPS was Rs 3.5
Successfully completed QIP of INR 5,000 million – funds to be utilized for new product developments (Radar, EW, Communication and satellite)	FY23 Recommended Dividend - Rs 4.50

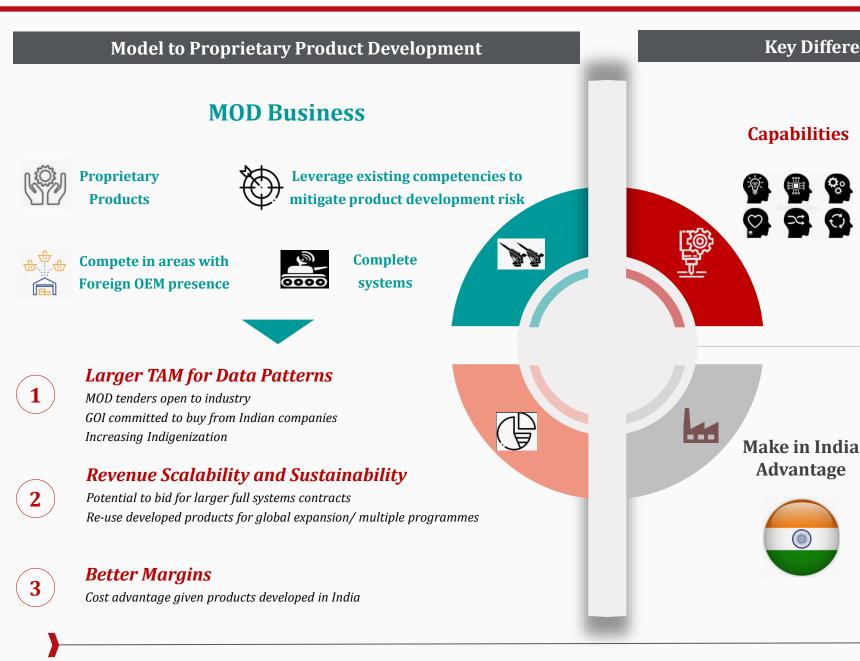
- Created additional world class infrastructure to deliver complete systems
- Government policies for Make in India
- Investment in complete products through QIP Proceeds

- Targeting larger opportunities in Radar, EW, Communication Systems and Satellite business
- Expects to be a major participant for Rs20-30 bn worth of contracts in the next 3-4 years
- Efficient execution to promote operating leverage; Should drive strong EBITDA and PAT margins
- Exploring further opportunities in export market; Working in collaboration with domestic players



High Returns to Shareholders: ROE and RoCE - 20%+





Key Differentiators for Data Patterns

Leveraging existing competencies

- Leveraging existing competencies across target product categories with significant lead and vendor credentials
- Building Blocks in place for reuse across products and to crunch timelines and costs
- Focus on Key product categories with significant presence i.e Nano/Micro Satellites Radars, ESM and Communication systems

Alternative to foreign OEM products

- Cost advantage compared to players who may have to collaborate with foreign **OEMs**
- Better pricing can lead to better win rates
- Products developed in India better PWIN

Focus on Key Product verticals



	Product	Dem	onstrated Capabilities	S	Potential	Opportunity
1	Satellite	 Capabilities to des other remote sens Comprehensive ex and Command cor 	ached compete satellite in Indi sign payloads like ESM, Imagin sing, others sposure to Ground stations inc atrol, high speed communicati abilities for large satellites	ng (RF and ESM), cluding Radars	(Domestic as well aFocus on Micro Sat	-
	Existing Successful development	Nano Satellite	Antenna Tower Satell	lite Integrated Testing	Satellite Internal View	Thapsat Satellite
2	Radars	 Re-use already dev Building Bloc Transmit/Red 	blocks to complete radars sys veloped building blocks to me ks in Signal Processing, Anten ceive modules, etc. X Band, Gimbal, algorithms, F	et timelines na,	 Focus on Fire Conta smaller Radars for Cost competitive w Export Potential 	
	Existing Successful development	Single Board Computer-Next Gen	Wide Band Digital Receiver	DTRM	Antenna PCB	Antenna Assembly fixture

Focus on Key Product verticals



	Product	Demonstr	ated Capabilities	S		Potential Op	portunity
3	Electronic Surveillance & Monitoring	 Developed state of the art Both COMINT and ELINT Truck Mounted System POD based jammers / 	including DF can be us ns / UAV Based ESM Sy	ed in vstems	•	Potential large market v Requirement across Arr	
	Existing Successful development	Radar Warning Receiver	ELINT DF System	V/U/SHF Monitoring Receiver		WHF/UHF/SHF Receiver Processor Exciter	5 Channel Search Receiver
4	Communication Systems	 Developed SDR Platform f Fighter Aircrafts Radio Relay for Airborn Radio Relays 			• •	Military Radars, Radio I procured under emerge procurement Large volume requirem Requirement across Art	ency Fast Track ents
	Existing Successful development	Communication / Data Link	جمع المعالم الم Programmable Rad	lio Hardware Platform Type I &	k II	Fadio	Relay



Order Book as on date is Rs 9,241 mn



Current order book Rs. 10,080 mn including the orders finalised in Apr and May 2023

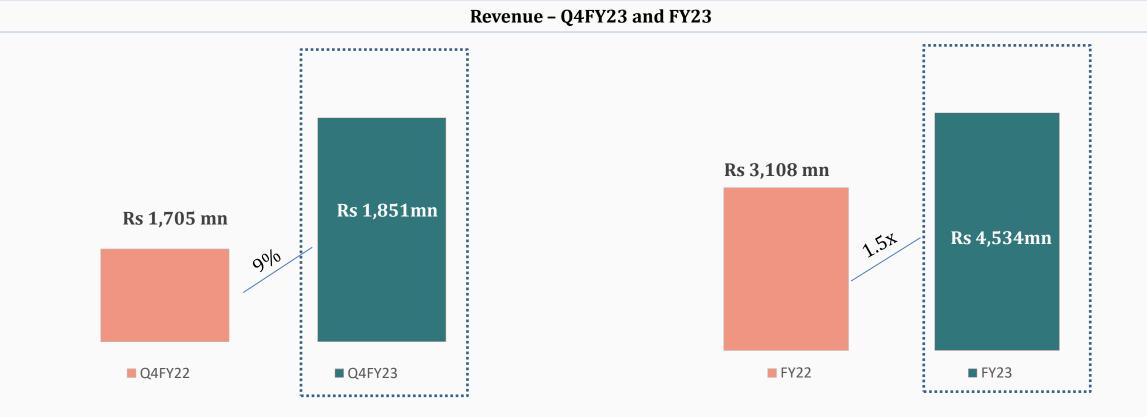
We are participating in large value tenders with MoD under Make 1 and 2 categories.



Particulars (Rs. Mn)	Q4FY23	Q4FY22	Q3FY23	FY23	FY22
Revenue from Operations	1,851	1,705	1,118	4,534	3,108
Gross Profit	1,070	1,108	742	2,825	2,247
Gross Profit Margin (%)	58%	65%	66%	62%	72%
EBITDA	733	875	470	1,718	1,409
EBITDA Margin (%)	40%	51%	42%	38%	45%
Depreciation / Amortization	22	19	21	84	66
EBIT	711	856	449	1,634	1,343
EBIT Margin (%)	38%	50%	40%	36%	43%
Other Income	38	25	19	92	40
Finance Cost	28	35	21	77	110
РВТ	721	846	446	1,648	1,273
Tax expense	168	230	113	408	334
Profit(Loss)for the period	554	616	333	1,240	939
PAT Margin (%)	30%	36%	30%	27%	30%
EPS (Rs)	10.5	12.7	6.4	23.8	19.5

Revenue: 1.5x in FY23



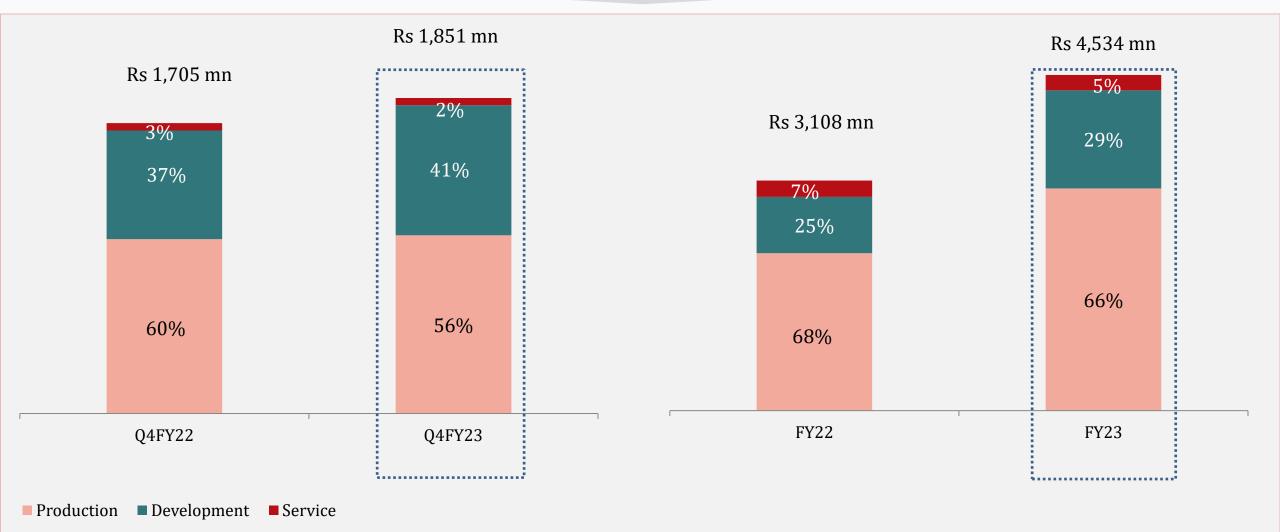


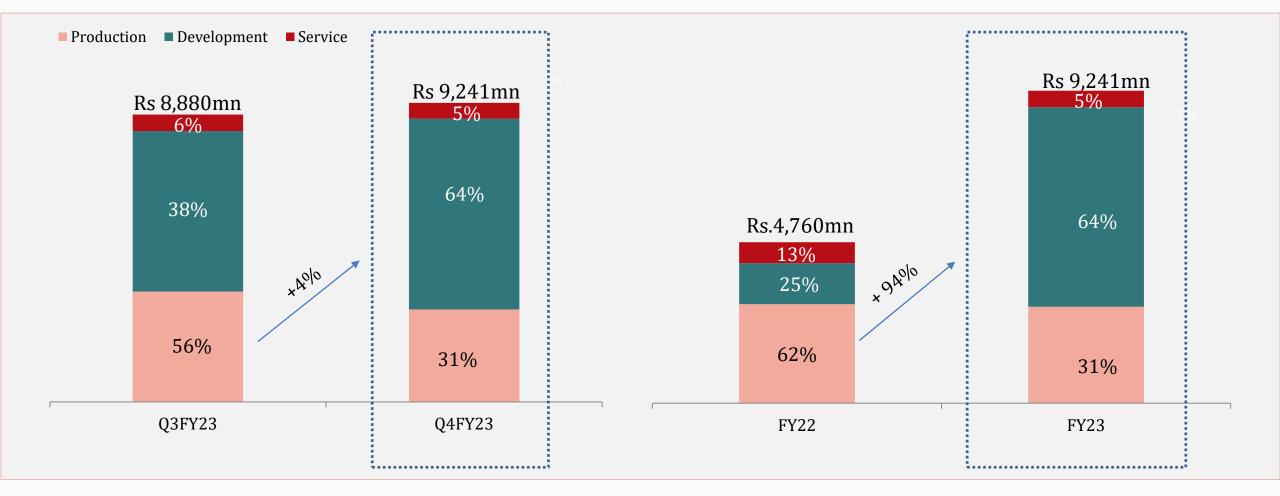
- Business Smoothened: Less Dependency on Q4
- Annual Numbers are more representative of business than quarterly numbers



Revenue growth across all the three categories

Revenue in INR mn





- Developmental contracts/order book translates to strong production revenues
- Company is focussing on growth driver for medium and long term by taking several development contracts.



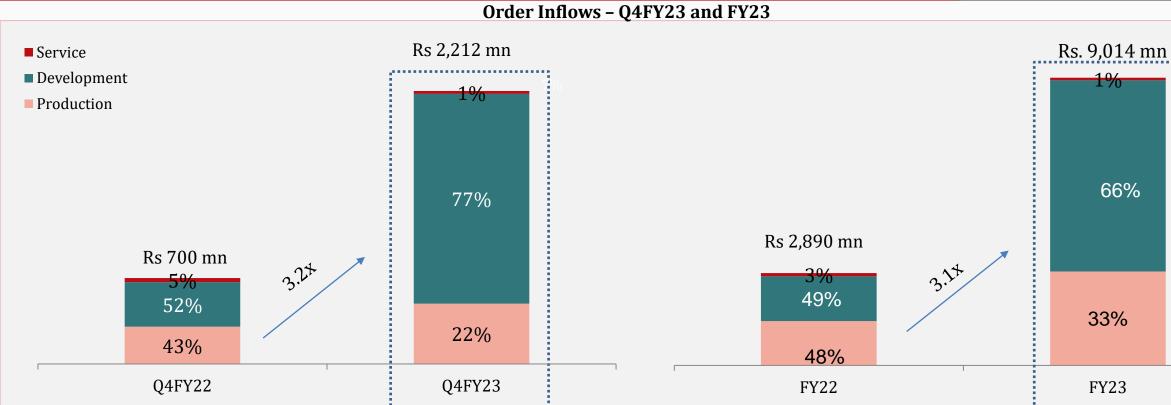
Product	Rs mn
ATE	338
AVIONICS	103
Nano Satellite	30
Naval/ Naval System	28
EW	274
Radar	1,000
Radar Processor	12
AMC/Service	65
Total	1,851

Customer	Rs mn
BEL	25
Brahmos	92
DoS	79
DRDO	784
Export	243
HAL	1
MoD	566
AAI	14
Others	47
Total	1,851

Highest Ever Order Inflow



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Major order received in Q4FY23

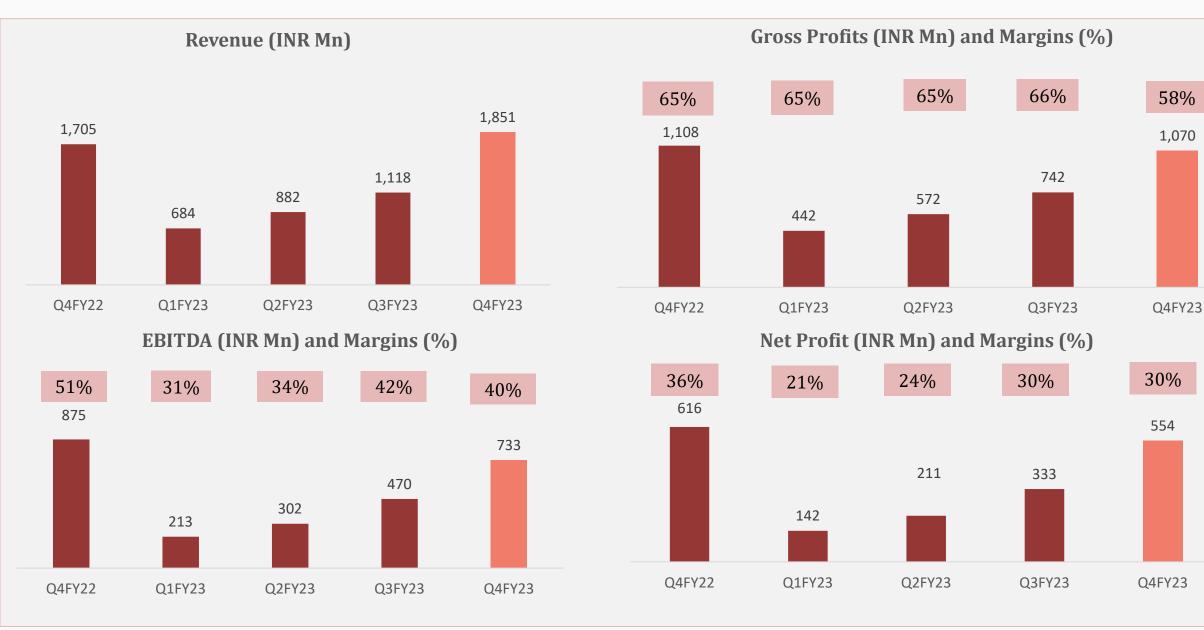
Product	Customer	Order Type	Value (Rs mn)
Radar	DRDO	Development	830
EW	DRDO	Development	530
Tank	DRDO	Development	345
ATE	BRAHMOS	Production	41
Avionics	DRDO	Production	68

Major order received in FY23

Product	Customer	Order Type	Value (Rs mn)
Radar	DRDO	Development	4,489
Avionics	HAL	Production	737
EW	DRDO	Development	530
Tank	DRDO	Development	345
FCS	Brahmos	Production	400

Robust Performance : Supported by Strong Financials





Investment in Business



Investment in Our People

Investment in Facility

ility Investment in Technology



- ✓ We hired 250+ staff in FY23
- ✓ Plans to hire 100 more engineers in the next year





- ✓ Spent Rs 44 Cr on new facility
- ✓ The facility is operational from March 2023 onwards



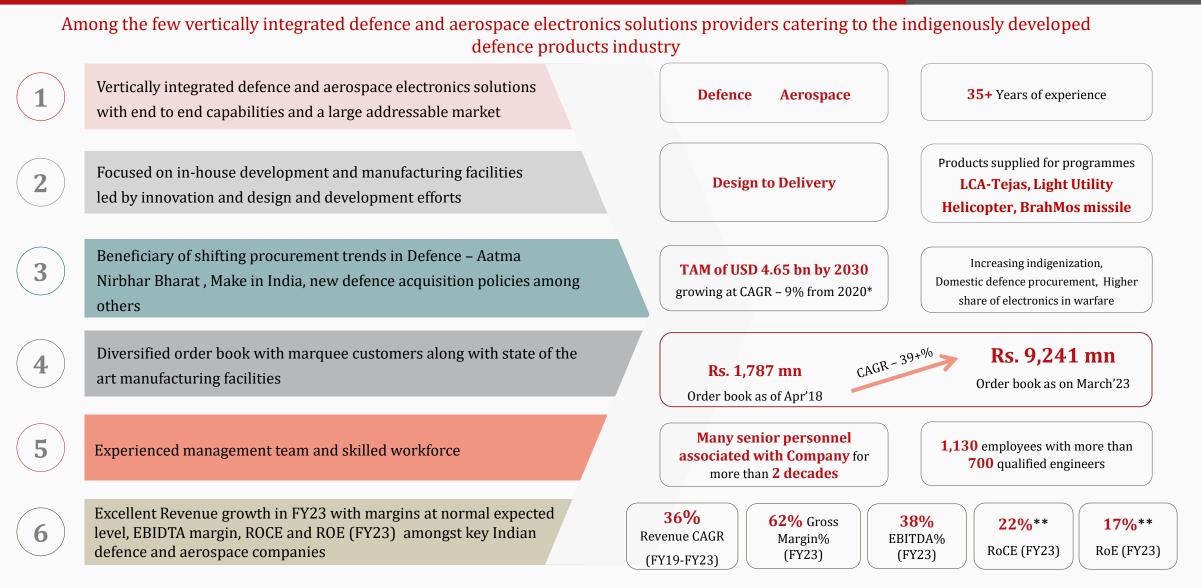
- ✓ Successfully completed site acceptance test of 4 Precision Approach Radar.
- ✓ Nominated as Development and Production Partner for Dornier upgrade
- ✓ Actively pursuing new technology development with QIP Proceeds



Corporate Overview

Data Patterns – One of the fastest growing companies in the Defence and Aerospace Electronics sector in India...

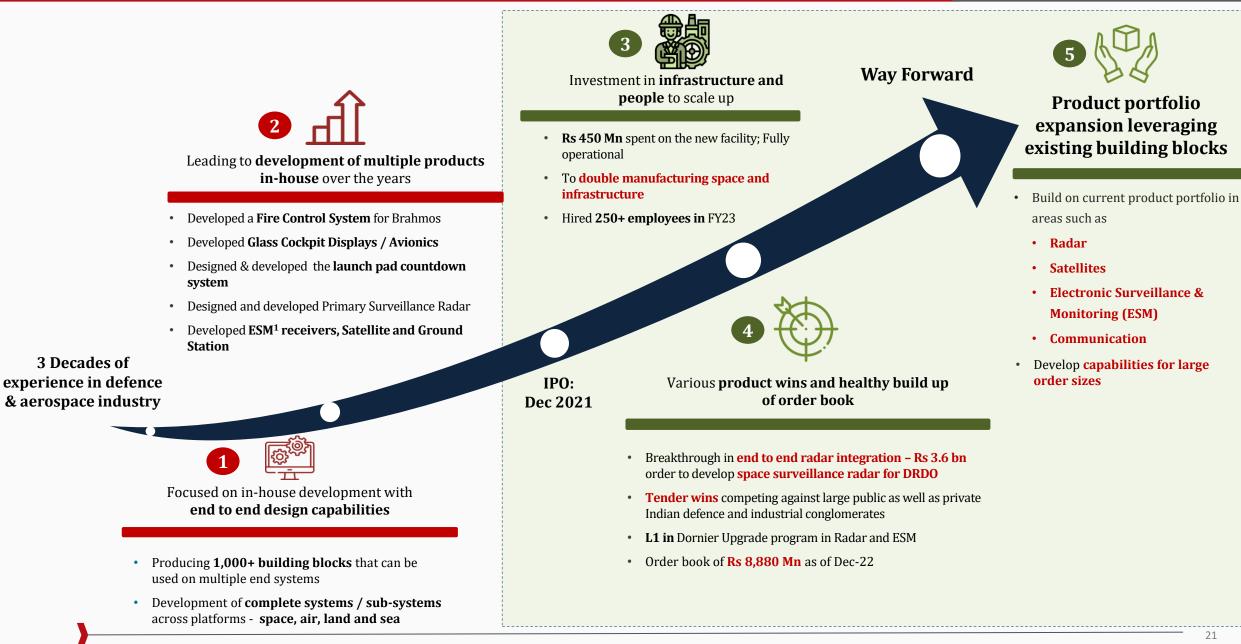
DATA PATTERNS



One of the fastest growing companies in the Defence and Aerospace Electronics sector in India

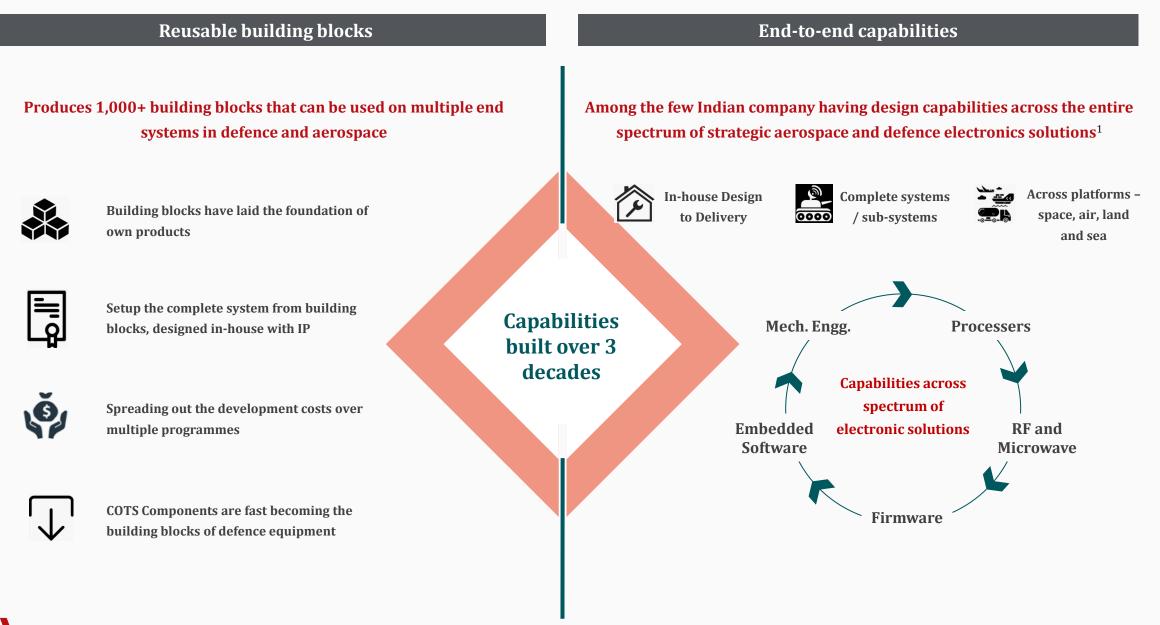
*addition of market size of specific industries from the DRHP ** Without considering QIP funds raised in March, 2023

Evolving as a product company with a strong lineage



Competencies built over the past 30+ years

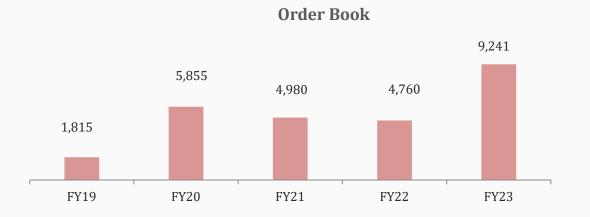




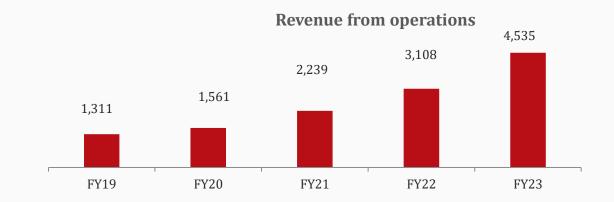
With a Consistent Track Record of Profitable Growth



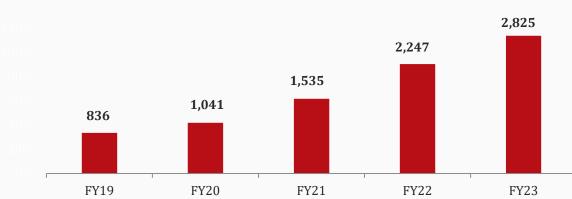
39%+~ % growth CAGR FY19-FY23



~ 36% Revenue CAGR from FY19-FY23

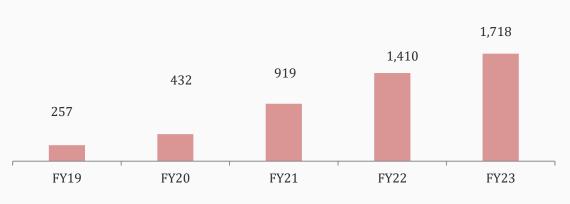


~ 61% EBITDA CAGR from FY19-FY22



High Profitability

Gross Profit

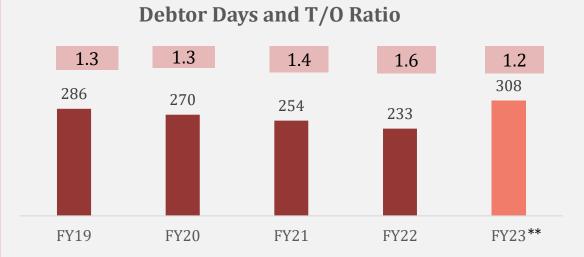


EBITDA

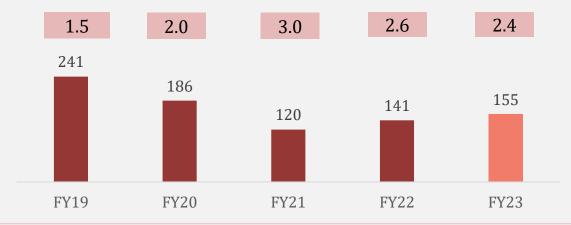


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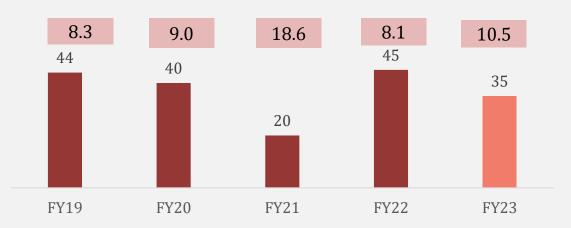




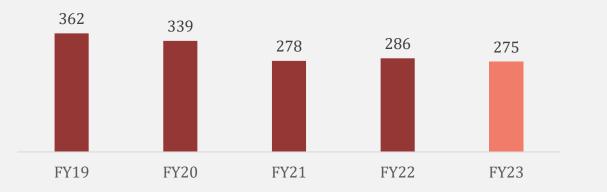
Inventory Days and T/O Ratio



Creditor Days and T/O Ratio



Cash Conversion Cycle*



*Cash conversion days is after adjusting advance received from customers **Company has realized Rs. 831 Mn in April 2023 out of March receivables

Through Well-Invested and State of the Art Manufacturing Facilities



~ 5.75 Acres

Of land in Chennai, SIPCOT area

~ 200,000 sq. ft

Aggregate of built up area of manufacturing facility

~2.81 acres

Land for proposed expansion



Environmental Certification

- JSS55555

- MIL-STD-461

- MIL-STD-810 including for Highly Accelerated Life Test / Highly accelerated stress screening.

Key features of manufacturing facility

- 100,000 class clean room
- √ Electronic assembly facility

 \checkmark

- BGA repair work station with display \checkmark
- \checkmark Manual soldering certified to Space grade standards
- EMS assembly capacity of 600 boards per day \checkmark
- Capability to handle complex boards with 22 layer, 6k \checkmark components and 21k solder points
- \checkmark Dedicated 70 work stations for testing modules and small systems
- Harness preparation of 2k points per day \checkmark
- 20 Dedicated Mechanical assembly stations to \checkmark assemble small and large systems and various others...

Our systems and processes are subject to periodic audit by customer such as

- Indian Government Space Organization \checkmark
- Hindustan Aeronautics Limited (HAL) ~
- Other Government departments \checkmark





Infrastructure

Multi Ton material handling







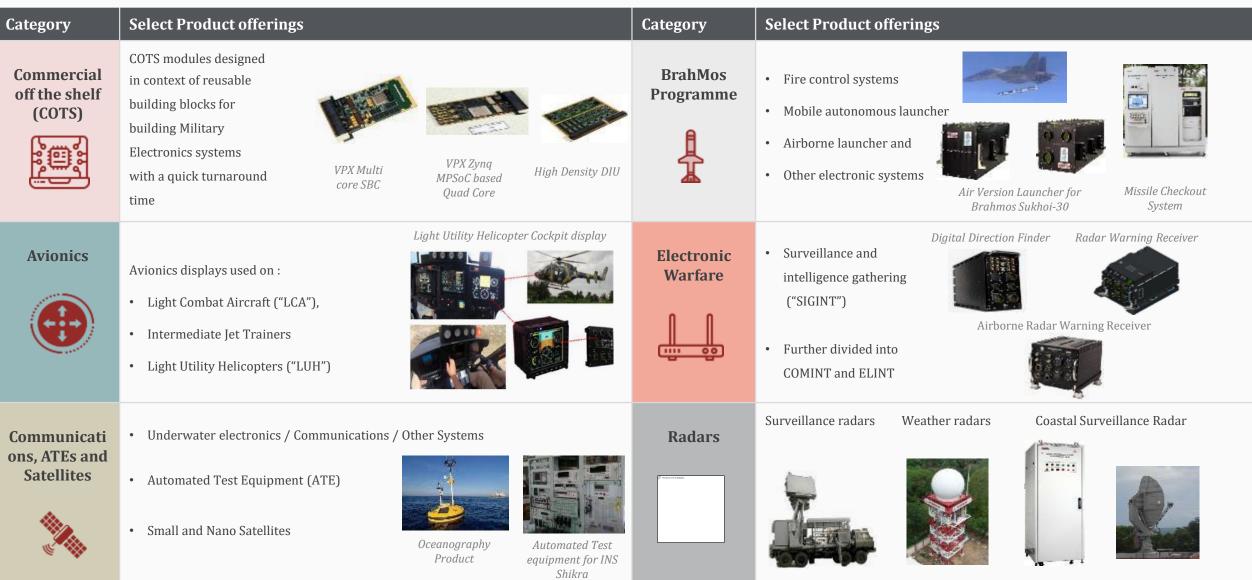
X ray inspection system

EMS Line

Multizone Reflow Oven

Diverse Product Offering





Over Last Three Decades





Launch pad countdown system

• Developed a Fire

developed the

launch pad

Brahmos

• Designed &

Control System for

countdown system

2001





Fixed Wing Cockpit Displays



TERLS Tracking Radar





C-Band Tracking Radar

Designed and developed complete Radar Capability

Wind Profile

Radar

Developed Glass Cockpit **Displays / Avionics**

RF & Microwave

Products

- Upgradation of Tracking Radars
- Developed **RF** and **Microwave capabilities** allow entry to building complete systems



Coastal Surveillance Radar (Dept. of Space)



Micro Satellite Designed wide open RWR and

ELINT for airborne platforms

of association with India Space Organization. Data Patterns built a Nano Satellite which was deployed in 2017.

• Developed EW receivers, Satellite and Ground Station

2021

- Initiated expansion of manufacturing facility with doubling of available floor area
- Building of capacity to handle large and heavy equipment and integration of large radars and mobile EW systems, satellite integration facility



Expanding capacity



Fire control system for the BrahMos







V/UHF Search Receiver



Precision Approach Radar



A De-Risked Business Model







Dharashakti programme

- Received single vendor orders from DLRL for development and supply of all of the COMINT / ELINT search receivers, Direction Finder & Monitoring / Search receivers.
- In a position to be an OEM for the entire receiver systems



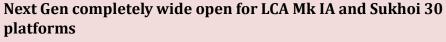
Radar Warning Receivers / ESM

• Part of the Radar Warning Receivers / ESM for the Airborne Early Warning System ("AEW &C") to DLRL which has been fitted on the Embraer early warning radar developed by Centre for Air Borne System ("CABS")

*

MI 17 Upgrades, Dornier Upgrades, Aerostat upgrades,

• Expertise gained in the Dharashakti project would also position to cater for airborne COMINT and ELINT equipment for various upgrades of any new rotary wing programmes



- Likely to deliver Next Gen completely wide open for LCA Mk IA and Sukhoi 30 platforms subject to flight testing.
- After flight testing, these can be fitted on the LCA MK IA on order as well as the Sukhoi 30 upgrades, attack helicopters, etc.



Airborne surveillance radar

• Has delivered an airborne surveillance radar (all of the hardware) to LRDE (Testing completed) and will be likely inducted in Navy's Dornier upgrade and new helicopter programmes

Arudhra Radar

- Expected to supply multiple units of AGRU/ Arudhra radar
- Likely to generate revenues in the next few years based on the requirement projection of IAF



Ashwini LLTR

- Partner in development of these radars as a single vendor incl. TR modules, AGRU, signal processor, etc
- Expected to realise revenue in the next few years.



Light weight ESM requirements

• ESM capability will help in supplying products for Light weight ESM products which have a heavy requirement in mountainous borders as they are not adequately covered



Focused on designing & developing indigenized products making it a beneficiary of India's "AtmaNirbhar" defence structural reforms



Focused on designing and building own products across the manufacturing value chain to developing products and sub-systems



Well positioned to rapidly commercialise or scale-up a number of existing products or building blocks to end systems or complete solutions



Concentrate on building complete systems from the building blocks and sub-systems already developed, provides a higher value addition while distributing development costs

Examples:

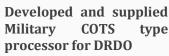


Wind profile radar built for Cochin University of Science and Technology is the world's first 205MHz radar - complete in house development



Developed and deployed our first Nano Satellite in 2017







Using the experience of working with DRDO and development of wind profile radar, the company successfully bid and won a contract of Rs 380Cr from Ministry of Defence for nine precision approach radars for Navy and Airforce which are currently at delivery stage

Subsequently received contracts to build 2 more Nano Satellites

Subsequently redeployed for other projects by various DRDO laboratories including in naval applications in ships & helicopters

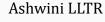




Arudhra Radar



Light weight ESM requirements





Airborne surveillance radar



Dharashakti programme



Radar Warning Receivers

Driven by Innovation Focused Business Model

Focused on in-house development led by innovation and design and development efforts



Building complete systems from the building blocks and sub-systems already developed



Partner with customers through the life cycle of a product, from conception till deployment and thereafter



450+ engineers, most of whom have served in design and development departments

Track record of utilizing pre-developed building blocks and sub-systems in the development of complete systems

- Military grade processor modules,
- Cockpit displays,
- Actuator controllers for missiles and torpedoes,
- Flight control computers,
- Digital receivers and
- Up/Down converters radars

Present programmes with building blocks Designed & Developed by Data Patterns...

- Airborne phased array radar
- Frequency hopping radio relays
- Next generation EW products
- ➢ Integrated EW solution for



... along with "Future Ready" products already designed and developed by the company

Key Products manufactured and delivered by Data Patterns

S.No	Product(s)	Details
1	Monopulse RF Seeker	Delivered prototypes to DRDO
2	IX-Rand Honnier Weather Radar	Prototype installed in Chennai for meteorology department
3	205MHz Wind Profile Radar for CUSAT	Installed at Cochin for a government owned university
4	Radar for Naval Utility Helicopter	Prototype delivered to LRDE
5	A Next-Generation Software Defined Radio for fighter aircrafts	Prototype developed for DEAL
6	A Next-Generation Radar Warning Receiver for fighter aircrafts	Prototype developed for DLRL
7	A Next-Generation COMINT	Prototype developed for DLRL
8	Precision Approach Radar	Delivered to AF
9	Nano Satellite	Being delivered to industry
10	Power PC Card	190 nos delivered to HAL
11	WBLRU	Delivered to DRDO

Servicing Marquee Clients

Marqee customers in the Indian defence & aerospace ecosystem					
Government Departments	Indian DPSU	Others			
Ministry of Defence	BrahMos				
Indian government space organisation	E E E E E E E E E E	SUBAL AND INTRODUCE			

History of business continuity & reliable product service for marquee customers



History of reliable product service for several customers

Supplying products to Indian govt. space org. for 20+ years; which continue to be under AMC Products supplied to BrahMos operational from 2006



Invest in product development ensuring continuity of business

Developed cockpit displays for LUH, which has potential to generate additional annuity revenues from the new units



Products form critical components

Launch systems for ground based BrahMos missile launcher, "take me home" displays for the Tejas



Supply of products to prestigious defence projects in India

Like LCA, the HAL Dhruv, LUH and the BrahMos missile programme

Led by a Highly Reputed and an Experienced Management Team



Mr. Srinivasagopalan Rangarajan Promoter, Chairman & Managing Director

- Over 3 decades of experience in business development, corporate affairs, finance and marketing
- B.Tech in Chemical Engineering from University of Madras, M.S from IIT, Madras



Ms. Rekha Murthy Rangarajan *Promoter, Whole Time Director*

- Over 2 decades of experience in administration, facility maintenance, HRD, process engineering and special projects
- B.A from Bangalore University, M.A in applied Psychology from Madras University



Mr. Vijay Ananth K

Whole Time Director, COO and Chief Information Security Officer

- Over 2 decades of experience in software engineering and product management
- BCS from Manomanian Sundaranar
 University and Masters degree in computer
 applications from the University of Madras
- Associated with Data Patterns 20+ years



Mr. Venkata Subramanian Venkatachalam *Chief Financial Officer*

- Over 2 decades of experience in finance sector
- B.Com from Madurai Kamaraj University, Member of ICAI

• Associated with Data Patterns – 20+ years



Mr. Desinguraja Parthasarathy *Chief Technology Officer*

- 32 years experience in product development
- B.E from University of Madras
- Associated with Data Patterns 30+ years



Mr. Thomas Mathuram Susikaran SVP – Business Development

SVP – Business Development

- 21 years of experience in Business Development and marketing
- B.E from Madurai Kamaraj University and a Masters' degree of tech in electrical engineering, IIT – Madras
- Associated with Data Patterns 20+ years



Ms. Prakash R

Company Secretary and Compliance Officer

- >10 years of secretarial and legal expertise in listed entities
- Post Graduate Law Professional and Member of ICSI
- Joined Data Patterns in 2023

Well Rounded and Diverse Board



Mr. Prasad Raghava Menon Non-executive, Independent Director

- Served as Managing Director of Tata Chemicals Ltd and Ex-Tata Power Company Ltd.
- Bachelor's degree from IIT, Kharagpur





Ms. Anuradha Sharma Non-executive, Independent Director

- Founder of H.R. Practice Private Limited.
- Directorship in **Peopable Advisory** Services Private Limited
- Graduate from Xavier School of Management

Mr. Sowmyan Ramakrishnan

Non-executive, Independent Director

- Ex-Executive Director and CFO of Tata Power.
- Bachelor's degree in technology (mechanical engineering) from IIT-M and a PG Diploma in Business Administration from IIM-A and M.A from Department of **Oriental Studies and Research**



Mr. Mathew Cyriac

Nominee Director

- 23 years of experience in investment banking and private equity.
- Previously associated with Blackstone Advisors, Bank of America, DLJ Merchant **Banking Partners and Credit Suisse**
- Bachelor's degree in technology (mechanical engineering) from Anna University and Post graduate diploma in management from IIM-B (gold medalist)

Mr. Vadlamani Venkata Rama Sastry

Non-executive, Independent Director

- Retired Chairman and M.D of Bharat Electronics Limited and ex-Executive Director of Centre for Development of Telematics
- B.Sc and B.E in electronics and communication from Andhra University



Appendix

Historical Statement of Profit and Loss



Particulars (Rs. Mn)	FY21	FY22	FY 23
Revenue from Contract with Customers	2,239.5	3,108.5	4,534.5
Other Income	26.0	39.6	92.2
Total Revenue	2,265.5	3,148.1	4,626.7
Expenses:			
a) Cost of materials consumed	629.8	915.9	1,941.4
b) Changes in inventories of FG, WIP and SIT	74.3	-55.2	-232.3
c) Employee benefits expenses	484.2	623.5	794.9
d) Finance cost	145.0	109.9	77.4
e) Depreciation / Amortization	55.5	66.3	84.5
f) Other expenses	131.4	213.9	312.4
Total Expenses	1,520.2	1,874.3	2,978.3
Profit before tax	745.3	1,273.8	1,648.4
Tax expense	189.6	334.1	408.4
Profit(Loss)for the period	555.7	939.7	1,240.0
Other Comprehensive Income	-9.6	-11.5	-10.2
Total Comprehensive Income for the year	546.2	928.2	1,229.8
PAT Margin %	25%	30%	27%
EBITDA	919.4	1,409.9	1,718.1
EBITDA margin%	41%	45%	38%
Return on Net Worth	31%	24%	14%
Total Debt	332.2	67.7	7
Debt to Equity	0.16	0.01	0.00

Historical Balance Sheet



Particulars (Rs. Mn)	Mar-20	Mar-21	Mar-22	Mar-23
ASSETS				
Non-current assets				
(a) Property, Plant and Equipment	278.2	292.1	441.6	912.5
(b) Capital Work in Progress			173.0	13.5
(c) Intangible Assets	1.6	5.6	13.5	20.0
(d) Right of Use Assets	53.7	34.4	19.7	187.9
(e) Other Financial Assets	464.8	340.7	1,220.4	838.7
Total non-current assets	798.2	672.8	1,868.2	1,997.7
Current assets				
(a) Inventories	794.1	737.5	1,197.7	1,929.5
(b) Financial Assets				
(i) Investment				556.8
(ii) Trade receivables	1,156.3	1,559.4	1,983.1	3,824.8
(iii) Cash and cash equivalents	15.1	88.1	1,770.8	2,147.8
(iv) Other Bank Balances				3,297.5
(iv) Other Financial Assets	37.2	51.0	88.6	211.5
(c) Other current assets	152.6	177.3	158.3	379.7
Total current assets	2,155.4	2,613.2	5,198.5	12,351.7
TOTAL ASSETS	2,953.6	3,283.7	7,066.7	14,349.4

Particulars (Rs. Mn)	Mar-20	Mar-21	Mar-22	Mar-23
EQUITY AND LIABILITIES				
Equity				
(a) Share capital	17.0	17.0	103.8	112.0
(b) Other Equity	1,518.0	2,060.7	5,641.3	11,558.8
Total equity and liabilities	1,535.0	2,077.7	5,745.1	11,670.8
Liabilities				
Non-current liabilities				
(a) Financial Liabilities				
(i) Borrowings	5.5	97.7	7.3	2.6
(ii) Lease Liabilities	38.5	24.4	11.1	4.3
(b) Provisions	56.4	85.2	111.6	102.5
(c) Deferred Tax Liability (Net)	7.6	8.1	-	
(d) Other Non Current liabilities	143.2	273.7	157.0	1,306.8
Total non-current liabilities	251.2	489.0	287.0	1,416.2
Current liabilities				
(a) Financial Liabilities				
(i) Borrowings	600.1	234.5	60.4	4.6
(ii) Trade payables	172.6	120.0	381.5	430.6
(iii) Other Financial Liabilities	79.2	40.1	220.7	118.0
(iv) Lease Liabilities	20.8	15.2	13.2	13.4
(b) Other current liabilities	224.7	246.4	226.8	664.4
(c) Provisions	14.9	9.6	7.2	31.4
(d) Current tax Liabilities	55.2	51.3	124.8	
Total current liabilities	1,167.5	717.0	1,034.6	1,262.4
TOTAL EQUITY AND LIABILITIES	2,953.6	3,283.7	7,066.7	14,349.4

Historical Cash Flow



Particulars (Rs. Mn)	FY20	FY21	FY22	FY23
Net Profit before tax	284.7	745.2	1,273.8	1,648.4
Adjustments for :				
Add : Depreciation	54.6	55.7	66.3	84.5
Add : Interest And Finance Charges	133.4	145.0	109.9	77.4
Add : Liquidated Damages (LD) Written Off	-	-	12.8	44.6
Add : Unrealised Forex Gain/Loss	-	-	3.9	11.3
Less: Profit on sale of assets	-1.8	-1.2	-	-
Less: Profit/Loss on sale of Mutual Funds	-	-	-	-8.0
Less: Interest Income	-25.6	-22.2	-39.8	-84.2
Operating Profit Before Working Capital Changes	445.3	922.5	1,426.9	1,774.0
Adjustments For Working Capital Movements :	-282.4	-183.7	-621.4	-1,412.2
Cash Generated From Operations	162.9	738.8	805.5	361.8
Direct Taxes (Paid) /adjusted	-28.4	-189.8	-283.6	-534.2
Net Cash flow From Operating Activities (A)	134.5	549.0	521.9	-172.4
Cash Flow From Investing Activities (B)	14.0	-27.5	-1,197.7	-3,831.6
Cash Flow From Financing Activities (C)	-136.5	-448.6	2,358.6	4,381.0
Net Increase in Cash & Cash Equivalents (A+B+C)	12.0	72.9	1,682.8	377.0
Cash & Cash Equivalent At The Beginning Of The Year	3.1	15.1	88.0	1,770.8
Cash & Cash Equivalent At The End Of The Year	15.1	88.0	1,770.8	2,147.8

Core groups or departments for design and development of products



Total Employee		Department	# of Employees			
		Design & Engineering (D&E)	57	9	700+ qualified	
		Manufacturing	376		Engineers out of 1130 Our senior members in hardware,	
Strength	Support	11	3	design and development have been		
		Marketing & Customer support	62 1,130		with us for more than 15 years	
		Total				
Group/Department	Respo	nsibility / Scope	Group/Department		Responsibility / Scope	
Hardware Development Department	Design and development of all types of high-end and complex electronics modules and building blocks. Includes Single board computers, Field Interface modules, Communication Modules, Custom I/O Modules,		DOMAIN Systems Groups	Design and Development of product verticals as a system. Including RADAR, EW, Communication, ATEs, Fire-control systems, Satellite, Avionics etc.		
Software Development Department	Mezzanine modules, Signal conditioning modules etc. Design and development all types of embedded, real-time and application software. Includes devices drivers, Operating system porting, real-time data transfer, GUI application for various Operating systems and hardware.		Production Department	All the products are functionally and environmentally tested by this department. Includes testing of modules and sub-systems wiring, mechanical assembly, and integration etc.		
Mechanical Engineering	Design and development of all types of mechanical nackaging hig structure		Electronics ManufacturingFabrication of all electronics modules. Including automated pick-Services (EMS)n-place, manual soldering, conformal coating etc.			
Department	structural and thermal analysis etc. PCB schematics, Artwork, signal analysis, power analysis, electrical wiring, all		Harnessing Group	Fabrication of all types of cable harness including internal wiring, external interface wiring, testing of cables for continuity, impedance etc.		
CAD / CAM Group modules/systems performance, and ma Includes up to 26 Layer PCB design, hyl				Assembly and integration of all types of mechanical parts. Including various types like LRU assembly, board assembly, system		
		ous domain algorithms for RADAR, ion waveform etc. Uses all types of	Group	assembly, system integration etc.		
Group		ng mathematical modelling, statistical		Responsible for Delivering all the orders both internal and external. Vertical integration of groups and product development		
Radio Frequency Modules Group	•	types of RF modules and sub-systems. iter, filters, upconverters/downconverters,	Project Management Group	delivery to full s Utilizes, project	ncludes all types of projects from simple module ystem delivery. plan, metrics, GANNT charts, budgeting and xecution methods etc	

Defence modernization programmes



Arudhra Radar

- Expected to supply \sim 55 units of AGRU/ Arudhra radar
- Likely to generate revenues in the next 3-4 years based on the requirement projection of IAF



Ashwini LLTR

- Partner in development of these radars as a single vendor incl. TR modules, AGRU, signal processor, etc
- Expected to realise revenue between \$10-30 million in the next few years.



Dharashakti programme

- Has received single vendor orders from DLRL for development and supply of all of the COMINT search receivers, Direction Finder & Monitoring receivers.
- In a position to be an OEM for the entire receiver systems with likely revenues of \$ 50 million on complete execution



MI 17 Upgrades, Dornier Upgrades, Aerostat upgrades,

• Expertise gained in the Dharashakti project would also position to cater for airborne COMINT and ELINT equipment for various upgrades of any new rotary wing programmes



Light weight EW requirements

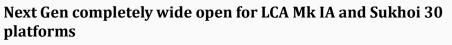
• EW capability will help in supplying products for Light weight EW products which have a heavy requirement in mountainous borders as they are not adequately covered, and the same has been prioritised due to the increased geo-political tension

Airborne surveillance radar

• Has delivered an airborne surveillance radar (all of the hardware) to LRDE which is expected to be flight tested in the next few months and will be likely inducted in Navy's Dornier upgrade and new helicopter programmes

Radar Warning Receivers

• Also a part of the Radar Warning Receivers for the Airborne Early Warning System ("AEW &C") to DLRL which has been fitted on the Embraer early warning radar developed by Centre for Air Borne System ("CABS")

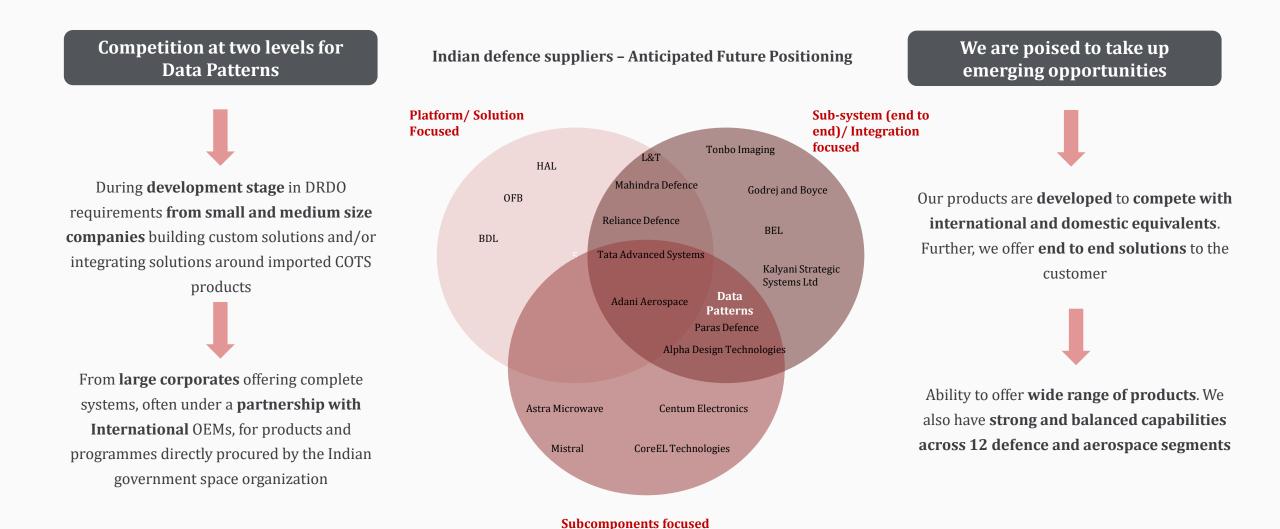


- Likely to deliver Next Gen completely wide open for LCA Mk IA and Sukhoi 30 platforms subject to flight testing.
- After flight testing, these can be fitted on the 83 LCA MK IA on order as well as the Sukhoi 30 upgrades (approximately 270 numbers), attack helicopters, etc.



Indian defence and aerospace industry is rapidly evolving into a self sustaining one







Thank You

Made in India with Pride

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