

November 12, 2024

Tο The General Manager Department of Corporate Relations **BSE Limited** Sir Phiroze Jeejeebhoy Towers, Dalal Street, Fort, Mumbai -400 001

**Scrip code: 532493** 

Tο

The Vice President, Listing Department

CIN: L29309TG1991PLC013203

The National Stock Exchange of India

ASTRA MICROWAVE PRODUCTS LIMITED

Regd. Office: ASTRA Towers, Survey No. 12(P), Kothaguda Post Kondapur, HITEC City, Hyderabad, Telangana, INDIA - 500084 Tel: +91 40 46618000, 46618001. Fax: +91 40 46618048 Email: mktg@astramwp.com, website: www.astramwp.com

Limited

Exchange Plaza Bandra Kurla Complex, Bandra (East) Mumbai 400 051

Scrip code: ASTRAMICRO

Dear Sir.

Sub: - Intimation pursuant to Regulation 30 of the SEBI (LODR) Regulations, 2015 -Investor Presentation.

Please find enclose herewith Investor Presentation for Q2 & H1 FY25 for your information and records.

We request you to take the above on record and the same be treated as compliance under the applicable regulations of the SEBI (LODR) Regulations, 2015.

This is for your information and records.

Thanking you,

Yours faithfully,

For Astra Microwave Products Ltd

T.Anjaneyulu G.M - Company Secretary

An ISO 9001, ISO 14001, ISO 45001 and ISO 27001 Certified Company

Works: Unit 1: Plot No. 12, ANRICH Industrial Estate, Bollaram, Medak Dist., Telangana - 502325

Unit 2: Plot No. 56A, ANRICH Industrial Estate, Bollaram, Medak Dist., Telangana - 502325

Unit 3: Sy. No. 1/1, Imarath Kancha, Raviryala (V), Maheshwaram (Mdl) R.R.Dist., Telangana - 500005

Unit 4: Sy. No. 1/1, Plot No. 18 to 21, Imarath Kancha, Hardware Park, Raviryala (V), Maheswaram (M), R.R.Dist, Telangana - 500005

Unit 7: Sy. No.114/1, Plot No. S-2/9 & 10, E-City, Raviryala & Srinagar (V), Maheswaram (M), R.R.District, Telangana - 501359

R&D Centre: Plot No. 51(P), Bangalore Aerospace Park, Singanahalli Village, Budigere Post, Bangalore North Taluk, Karnataka - 562149







Investor Presentation – November 2024

### Safe harbour



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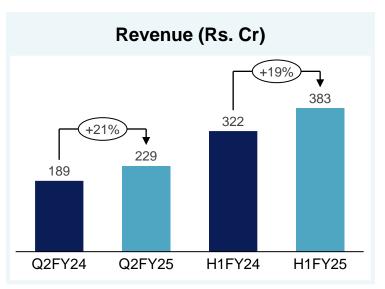
This presentation contains certain forward-looking statements concerning the Company's future business prospects and business profitability, which are subject to a number of risks and uncertainties and the actual results could materially differ from those in such forward-looking statements. The risks and uncertainties relating to these statements include, but are not limited to, risks and uncertainties regarding fluctuations in earnings, our ability to manage growth, competition (both domestic and international), economic growth in India and abroad, ability to attract and retain highly skilled professionals, time and cost over runs on contracts, our ability to manage our international operations, government policies and actions regulations, interest and other fiscal costs generally prevailing in the economy. The Company does not undertake to make any announcement in case any of these forward-looking statements become materially incorrect in future or update any forward-looking statements made from time to time by or on behalf of the Company.

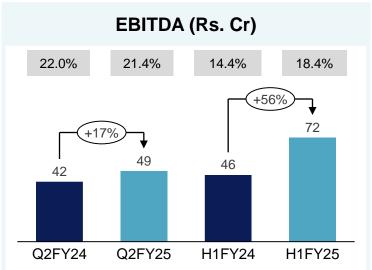
### **Performance Highlights**

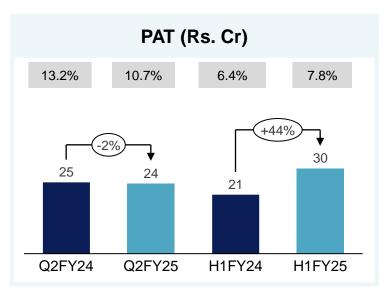


Margins

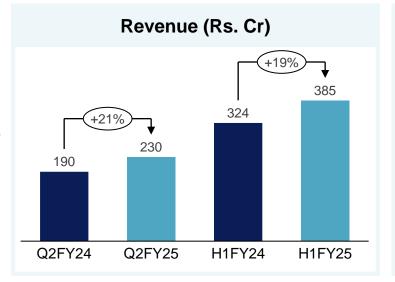
Standalone

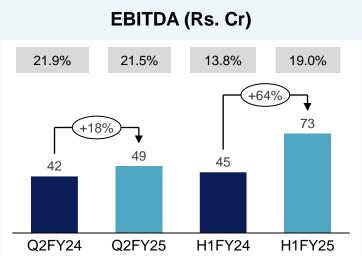


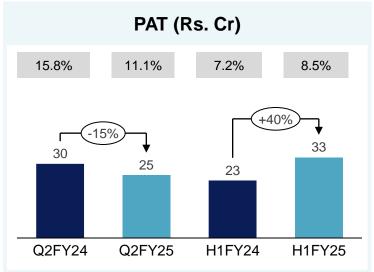




Consolidated







### **Robust Order Book**

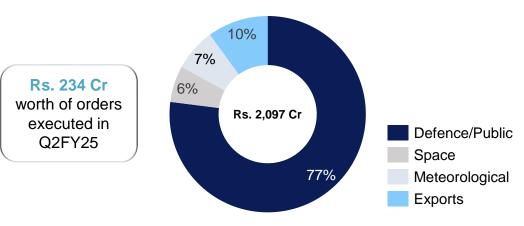


### Diversified Orderbook

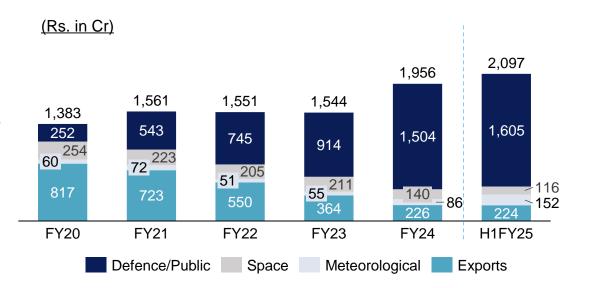
#### Total orders received during the quarter

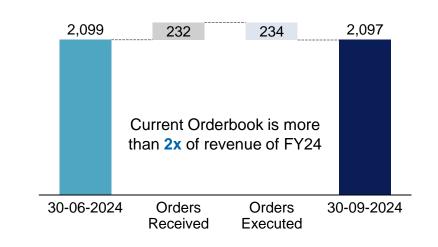
Sno	Segment Name	Amount (Rs. Cr)
1	Defence	148.89
2	Exports	4.44
3	Space	2.14
4	Meteorological	76.58
	TOTAL	232.05

#### **Segment Wise Order book**



### Historical Orderbook

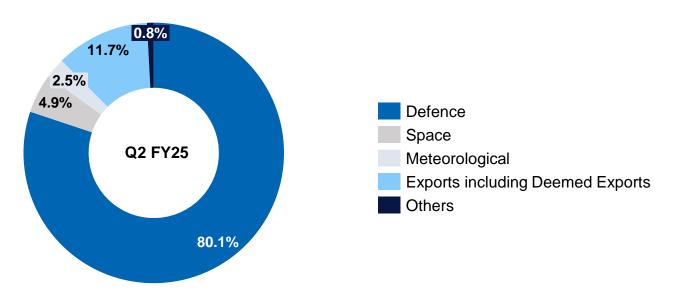


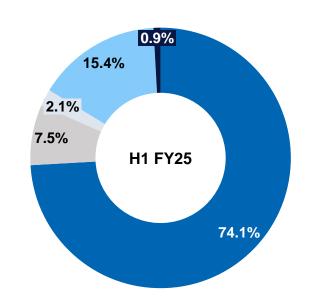


### Segmental Revenue Break-up



Revenue Break-up in %	Q2FY25	Q1FY25	Q4FY24	Q3FY24	Q2FY24
Defence	80.1%	65.2%	58.0%	72.2%	56.1%
Space	4.9%	11.5%	14.0%	6.1%	3.1%
Exports including Deemed Exports	11.7%	21.0%	24.2%	20.3%	38.8%
Meteorological	2.5%	1.4%	3.5%	0.7%	1.2%
Others	0.8%	0.9%	0.3%	0.7%	0.7%





### **Standalone Profit & Loss**



(Rs. In Cr)	Q2FY25	Q2FY24	YoY	H1FY25	H1FY24	YoY
Revenue from Operations	229	189	21.1%	383	322	18.9%
Raw Material Consumption	138	111		228	207	
Gross Profit	91	78	16.2%	155	115	35.3%
Gross Profit Margin	39.6%	41.3%	-1.7%	40.5%	35.6%	4.9%
Employees Expenses	29	23		56	42	
Other Expenses	13	13		27	26	
EBITDA	49	42	17.5%	72	46	55.9%
EBITDA Margin	21.4%	22.0%	-0.7%	18.8%	14.4%	4.5%
Other Income	2	4		5	6	
Depreciation	6	6		14	12	
EBIT	45	39	15.6%	62	40	55.1%
EBIT Margin	19.7%	20.6%	-0.9%	16.3%	12.5%	3.8%
Finance Cost	12	6		23	13	
Profit before Tax	33	33	-1.8%	40	28	44.5%
Profit before Tax Margin	14.3%	17.6%	-3.3%	10.4%	8.6%	1.8%
Tax	8	8		10	7	
PAT	24	25	-1.6%	30	21	44.4%
PAT Margin %	10.7%	13.2%	-2.5%	7.8%	6.4%	1.4%
EPS (in Rs.)	2.58	2.62		3.13	2.20	

### **Standalone Balance Sheet**



ASSETS (Rs. In Cr)	Sept-24	Mar-24
Non-Current Assets	278	249
Property, plant and equipment	186	169
Capital WIP	21	13
Investment in Associates	2	2
Investments in joint ventures	21	20
Investments in subsidiaries	16	16
Financial Assets		
Other Financial Assets	12	9
Deferred tax assets	9	9
Non Current Tax Assets	1	0
Other non-current assets	11	11
Current assets	1,321	1,217
Inventories	631	505
Financial assets		
i. Trade receivables	544	503
ii. Cash and cash equivalents	7	61
iii. Bank balances other than (iii) above	63	65
Assets Classified as held for sale	5	5
Current tax assets (net)	1	1
Other current assets	70	77
Total assets	1,599	1,466

EQUITY AND LIABILITIES (Rs. In Cr)	Sept-24	Mar-24
Equity and Liabilities	980	968
Equity share capital	19	19
Equity attributable to owners of the Company	961	949
Non-current liabilities	111	73
Financial liabilities		
Borrowings	31	15
Provisions	10	10
Contract liabilities	70	48
Current liabilities	509	425
Financial liabilities		
i. Borrowings	269	211
ii. Trade payables	87	88
iii. Other financial liabilities	22	22
Current tax liabilities (net)	13	1
Provisions	4	4
Contract liabilities	115	75
Other current liabilities		24
Total equity and liabilities	1,599	1,466

### **Standalone Cashflow Statement**



Cash Flow Statement (Rs. in Cr)	Sept-24	Sept-23
Profit Before Taxes	40	28
Changes in working capital	-87	-29
Cash generated from operations	-47	-1
Direct taxes paid (net of refund)	-12	-17
Net Cash from Operating Activities	-59	-18
Net Cash from Investing Activities	-33	-13
Net Cash from Financing Activities	45	84
Net Increase in cash and cash equivalents	-47	53
Add: Cash & Cash equivalents at the beginning of the period	51	48
Cash & Cash equivalents at the end of the period	4	101

### **Consolidated Profit & Loss**



(Rs. In Cr)	Q2FY25	Q2FY24	YoY	H1FY25	H1FY24	YoY
Revenue from Operations	230	190	20.8%	385	324	18.8%
Raw Material Consumption	136	109		223	205	
Gross Profit	94	81	15.8%	162	119	36.2%
Gross Profit Margin	40.9%	42.6%		42.0%	36.7%	
Employee Expenses	31	25		61	47	
Other Expenses	14	14		28	27	
EBITDA	49	42	18.3%	73	45	63.8%
EBITDA Margin	21.5%	21.9%		19.0%	13.8%	
Other Income	2	3		4	5	
Depreciation	6	6		14	12	
EBIT	45	39	16.6%	63	38	65.2%
EBIT Margin	19.7%	20.4%		16.4%	11.8%	
Finance Cost	13	6		23	14	
Profit before share of profit/loss from JVs	33	33	0.3%	40	25	63.6%
Share of profits from JVs	1	6		3	6	
Profit before Tax	34	38	-12.2%	43	30	42.4%
Profit before tax margin	14.7%	20.2%		11.2%	9.3%	
Tax	8	8		10	7	
PAT	25	30	-15.4%	33	23	40.0%
PAT Margin %	11.1%	15.8%		8.5%	7.2%	
EPS (in Rs.)	2.67	3.16		3.43	2.49	

### **Consolidated Balance Sheet**



ASSETS (Rs. In Cr)	Sept-24	Mar-23
Non-Current Assets	270	239
Property, plant and equipment	184	167
Capital WIP	3	13
Investment in Associates	2	2
Investments in joint ventures	25	22
Intangible assets	21	3
Financial Assets		
ii. Other Financial Assets	12	10
Deferred tax assets	11	11
Non-Current Tax Assets	1	-
Other non-current assets	11	11
Current assets	1,337	1,235
Inventories	640	514
Financial assets		
i. Trade receivables	546	505
ii. Cash and cash equivalents	11	66
iii. Bank balances other than (iii) above	64	65
Other financial assets	0	-
Current tax assets (net)	1	1
Other current assets	71	78
Assets classified as held for sale	5	5
Total assets	1,607	1,473

EQUITY AND LIABILITIES (Rs. In Cr)	Sept-24	Mar-23
Equity and Liabilities	981	966
Equity share capital	19	19
Equity attributable to owners of the Company	962	947
Non-controlling interest	0	0
Non-current liabilities	111	74
Financial liabilities		
Borrowings	31	15
Provisions	10	10
Contract liabilities	70	48
Current liabilities	516	434
Financial liabilities		
i. Borrowings	276	221
ii. Trade payables	86	84
iii. Other financial liabilities	23	23
Current tax liabilities (net)		1
Provisions	4	4
Contract liabilities	115	76
Other current liabilities	13	25
Total equity and liabilities	1,607	1,473

### **Consolidated Cashflow Statement**



Cash Flow Statement (Rs. in Cr)	Sept-24	Sept-24
Profit Before Taxes	43	30
Changes in working capital	-86	-27
Cash generated from operations	-43	4
Direct taxes paid (net of refund)	-12	-17
Net Cash from Operating Activities	-55	-13
Net Cash from Investing Activities	-33	-13
Net Cash from Financing Activities	44	83
Net Increase in cash and cash equivalents	-43	57
Add: Cash & Cash equivalents at the beginning of the period	45	38
Cash & Cash equivalents at the end of the period	2	95

# **Company Overview**



### **Astra Microwave: An Overview**



Astra is engaged in the business of designing, developing and manufacturing of Defence,
Aerospace & Space Electronics systems, sub-systems and components

- Astra Microwave incorporated in 1991 is one of the few private sector companies in India that:
  - Design & Develop Radar, EW, Strategic & Space Electronics Systems & sub-systems
  - Has in-house capabilities of design, engineering, simulation, manufacturing, functional testing, environmental qualification of Defence, critical microwave and radio frequency-based equipment
- 30+ years of experience in Radar, EW & Strategic Electronics domain
- · Astra has moved up the value chain from modules & sub-systems to Systems & System of Systems

#### **Sectors**

- Defence
- Aerospace
- Space
- Metrology
- o Telecom

### **Projects with**

- o Various DRDO Labs
- Defense PSUs
- o Various ISRO Centers
- o MoD & MHA
- Many foreign OEM's

#### **Facilities**

- Five facilities in Hyderabad & one in Bengaluru
- Continuous investment in World Class Infrastructure for manufacturing, Assembly & testing
- Functional and Environment testing

#### **Key Financials**

- o Revenue Rs. 904 Cr.
- o Gross Margins 39.1%
- o EBITDA Rs. 194 Cr.
- o PAT Rs. 113 Cr.

FY24



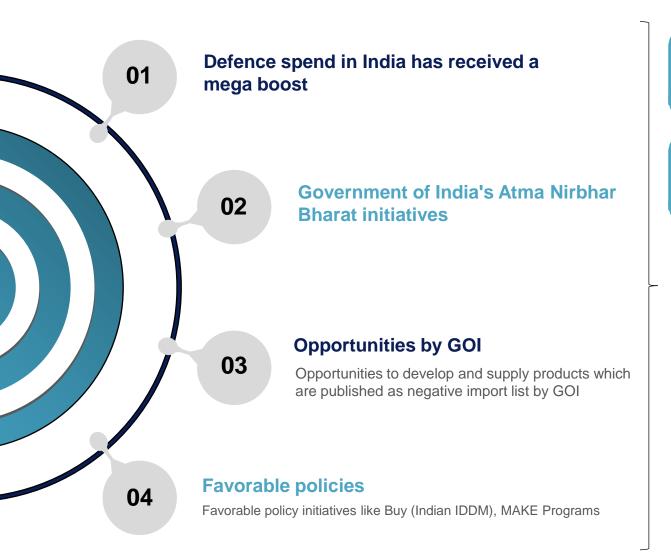
#### Key projects participated over time

- LRUs supplied to 3D-CAR Ashlesha & Arudhra Radars
- ✓ Developed & supplied Radar & EW Systems Test & Evaluation Facility (50 MHz – 40 GHz) to DLRL to carry out T&E of EW systems in Radiation mode.
- ✓ Supplied TR Modules & Control Units for LRDE's Long Range Radar (LRR)
- ✓ Developed & supplied a Land-based 7.3m Ground Telemetry Station which is designed to acquire and track airborne targets using five different carriers simultaneously
- ✓ Proto Development & Production of Digital Transmit Receive Units (DTRUs) and Digital Receive Units
- (DRUs) for Digital Active Phased Array (DAPA)
  Technology Demonstrator Project
- Shakti Project Sub-modules & Nayan Project Submodules
- ✓ Developed, Supplied & Commissioned 14 DWRs
- Developed & Supplied Active Array Antenna Unit (AAAU) For Uttam AESA Radar for LCA Mk1A fighter aircraft
- ✓ Developed & Supplied X-band AESA Seeker Head
- ✓ Developed & Supplied complete AAAU for Ship-borne Radar

Radar Electronics | Electronic Warfare | Missiles | Telemetry | Space | Meteorology | Hydrology | Telecom

### **Strong Sectoral Tailwinds**





Healthy Order Book Order Book worth Rs. 2,097 (Sep-24)

Sound visibility of revenues: Order book as on Sep-24 is more than 2x of revenue of FY24

AMPL has a proven track record of making high value-added SYSTEMS, RF and microwave super components and sub-systems which are becoming more relevant due to various government initiatives like IDDM, MAKE-II.

AMPL has been able to create a diversified and healthy order book on the back of its strong capabilities.

AMPL is very well placed to capture a bigger pie of the growing Indian defence sector with deep domain expertise, seasoned promoters, high focus on R&D and robust strategy in place.

### **Board of Directors**



#### **Managing Director**



#### Mr. S. Gurunatha Reddy

- Graduate in Science and Mathematics and Fellow Chartered Accountant.
- Worked in private sector industry and gained over 33 years of experience in accounting, finance, taxation, secretarial etc

#### **Executive Director Strategy & Business Development**



#### Mr. Atim Kabra

- Founder and Managing Director of Frontline Strategy Funds Pte. Ltd., a Singapore registered
   & licenced VCFM
- Over 25 years of well rounded "equities exposure" including Portfolio Management, Equity Sales and Equity Research with global institutions like ABN AMRO Bank, ANZ Grindlays Bank

#### **Chairman & Independent Director**



#### Dr. Avinash Chander

- · Doctorate from JNTU Hyderabad
- Retired Secretary, Defence R&D and Director General DRDO

#### **Non-Executive Director**



#### Mr. Suresh Somani

- Businessman, investor and philanthropist with a substantial experience of over 40 years in equity markets.
- He is the director of M/s. Ratnabali Investment Private Limited

#### **Joint Managing Director**



#### Dr. Maram Venkateshwar Reddy

- · Graduate in Engineering (Electronics) and a Postgraduate in Business Administration.
- 28 years of experience in handling Marketing and Business operations in the domain of Defense, Space and Telecom segment in India and Overseas Market

#### Non-Executive Director Head of R&D



#### Mr. P. A. Chitrakar

- Associated with the Defence Electronics Laboratory, Hyderabad, as a scientist for over 20 years before co-founding Astra Microwave
- An MSc (Physics) from Mysore University and an MTech (Advanced Electronics) from JNTU, Hyderabad.

#### **Independent Director**



#### Mrs. Kiran Dhingra

- 38 years of experience in governance and have held senior positions in decision making capacities in practically all sectors-the developmental, agricultural, social, industrial, infrastructural, transportation, economic and regulatory
- Joined Government in 1975, after standing first in the combined merit list for IFS / IAS and opting to serve in the IAS

#### **Independent Director**



#### Mr. S. Varadarajan

- · Retired Director of the Electronics & Radar Development Establishment (LRDE), Bengaluru
- B.E (Hons) in ECE from Madras University in 1972
- M.E with Distinction in ECE from Indian Institute of Science in 1974

Radar Electronics | Electronic Warfare | Missiles | Telemetry | Space | Meteorology | Hydrology | Telecom

### **Key Team Members**

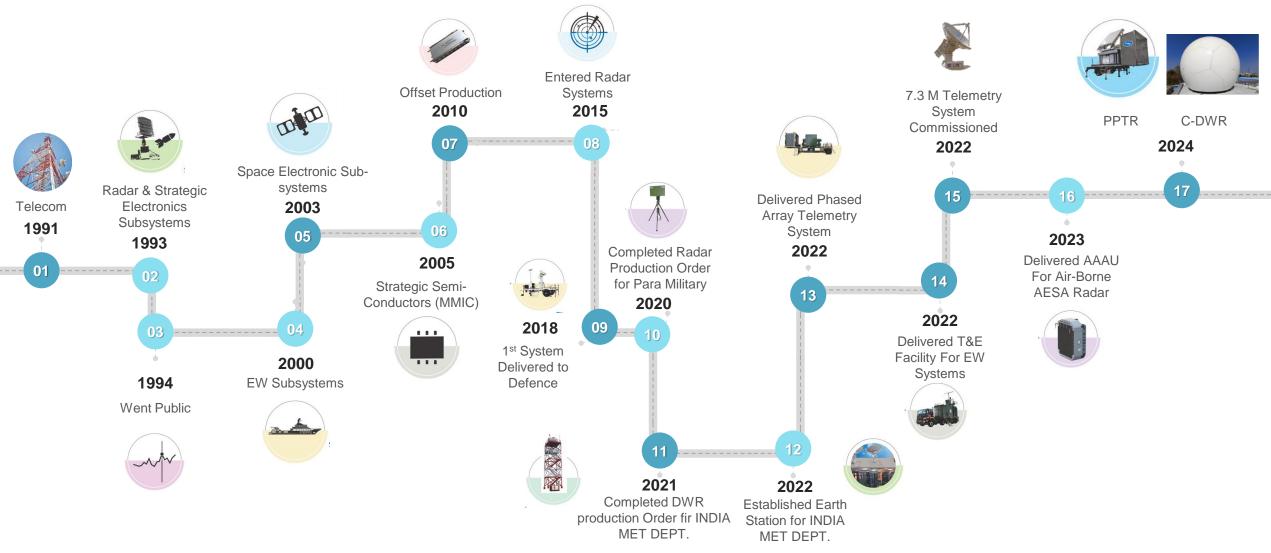




### Journey so far



### 30+ Years of Astra Microwave Products Ltd.



Radar Electronics

Electronic Warfare

Missiles

Telemetry

Space

Meteorology

Hydrology

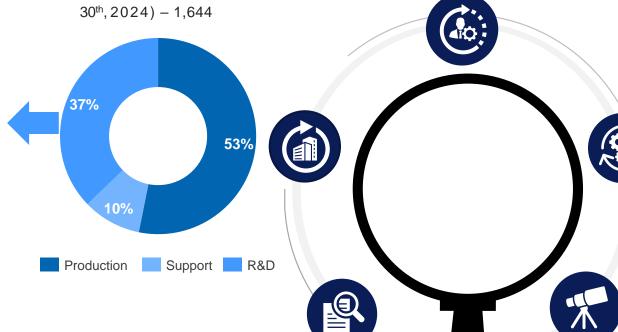
Telecom

### Strong research and development capabilities



629 R&D
professionals, out
of which over 99
have a masters
degree, 5 hold
doctorate degrees
and over 100 have
decade-plus
experience

Dedicated research and development facility in **Bengaluru with modern equipment** and in **Hyderabad at Unit-III & Unit-IV** 



- Participating in multiple MAKE-II programs of IAF & IA for various Radar Systems
- Working on multiple proactive development products & preparing for building future systems

### **R&D Expenditure (Rs in Crores):**

FY24	38.33
FY23	34.19
FY22	35.96
FY21	22.50
FY20	22.25

Astra is one of the few private sector players in India that has the capability to develop and supply GaN & GaAs MMIC products upto 40 GHz

Total workforce (as of September

### State of the Art Infrastructure



Astra has advanced in-house facilities for lower turnaround time for product realization appreciated by domestic and foreign customers.

### Hyderabad

### Bengaluru

#### Unit I



Land : 1.13 Acres Building : 18,000 Sq. Ft

Status : Own Year : 1999

**Facility Offering** 

Automatic weather Station AWS and other Hyderology & Meteorology

#### Unit II



Land : 2.0 Acres Building : 20,000 Sq. Ft

Status : Own Year : 1995

**Facility Offering** 

Near Field Test Range Out-Door Test Range Multi-Layer Antenna Fabrication

#### Unit III



Land : 9.9 Acres
Building : 77,000 Sq. Ft
Status : Own

ear :2003

**Facility Offering** 

Clean Room Laser Welding Vibration Table

#### Unit IV



Land : 19.0 Acres Building : 1,80,000 Sq. Ft

Status :Own Year :2009

**Facility Offering** 

EMI/EMC Halt/Hass Chamber ESS Chamber

#### Unit V



Land : 0.59 Acres Building : 23,000 Sq. Ft

Status : Own Year : 2019

**Facility Offering** 

MIC Facility CNC
Drilling Copper Plating
Gold Plating
Etching developing

#### Bengaluru Unit



Land: 5.0 Acres
Building: 1,00,000 Sq. Ft

Status : Own Year : 2012

**Facility Offering** 

Near Field Test Range (NFTR)

Satellite Integration Facility

### Equipped with

Clean room compatible oven for curing epory

Temperature controlled hot plate with nitrogen purging facility for eutectic attachment

High-precision bonding machines

ESD measurement equipment

DC probing station for on-chip measurement of DC parameters

### **Assembly Infrastructure**



01

Fully automated Assembly facility consisting of 3 Automatic SMT assembly lines with high end testing capabilities that include AOI, 3D X Ray, and functional test using Flying probe tester.

02

450,000 sq.ft. of research, design, development and manufacturing across 6 units

03

Class 10K & Class 100K Clean Rooms

04

Laser Welding, Seam Sealing

05

Bare Die assembly using Gold wire bonding and parallel gap welding

06

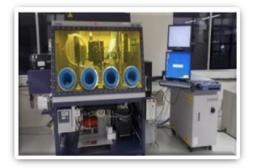
Multilayer Microstrip Antenna Assembly Facility



Clean Rooms - Class 10K



**SMT Lines** 



Laser Welding



**Automated Optical Inspection** 

### **Functional Testing**



01

Near Field Test Range (NFTR)

02

Digital Signaling

03

Function and pulse generators

04

Open air antenna test range

05

Spectrum Analyzers, Vector Network Analyzer, Signal generator, RF power meter

06

**Distortion Analyzer** 

07

ATE-ATS facility



**FFTR** 



ATE ATS - Facility



Open Air Antenna - Test Range



**NFTR** 

### **Functional Testing**



01

EMI/EMC Test Facility as per MIL STD 461C/D/E/F (NABL)

02

HASS/HALT Chambers

03

Environment Chambers (-65degC to +175degC; 98% RH)

04

Vibration/ Shock Testing tables, Bump Test M/c's

05

Weiss Chamber

06

Power Quality Tests as per MIL STD 704 D/E



**EMI-EMC Test** 



Vibration



**Environmental Chamber** 



**HASS Chamber** 

### **Product Range**



Astra has designed, developed and produced critical sub systems and systems for its customers for building various airborne, naval and ground based platforms

Radar, Missile Electronics, Electronic Warfare, Satellites, MMIC and Communication

#### **Defence**

- Radars
- · Electronic Warfare
- Missile Electronics
- Telemetry
- Counter-Drones

#### **S**pace

- Flight Model
  Application
- Satellite Bus
- Ground based Application
- INSAT MSS Terminals

### Hydro/Meteorology

- Water Level
   Measurement
   (Bubbler/ Radar
   Sensor)
- Automatic Weather Stations (AWS)
- Agromet Met Stations (AMS)
- Automatic
   Rain Gauge
   (ARG) X Band
   Doppler
   Weather Radar

#### Other areas of work

- Antennas
- MMIC
- Contract
   Manufacturing
- Homeland Security
- Environmental & EMI/ EMC Testing Services

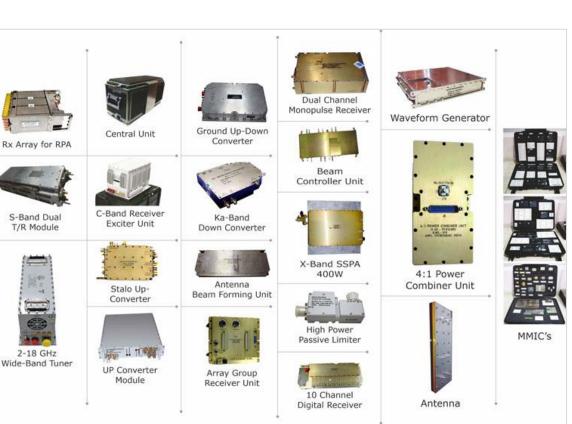
### Radar Electronics: Up to Ka band



### **Homeland security**

- Counter UAV Radar Drishti
- Perimeter Intrusion Detection Radar
- C-UAS System







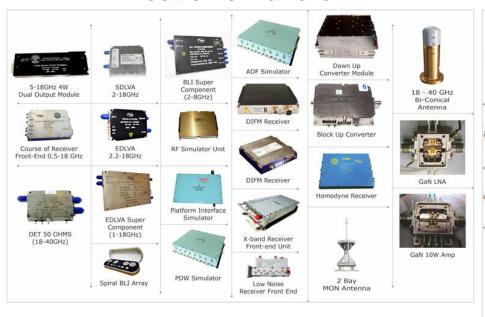
complete Active Array
Antenna Unit (AAAU)
hardware, Signal
Processing & Radar Data
Processing for AESA MultiFunction Radar

The Ka-band electromagnetic frequency spectrum ranges from 26.5GHz to 40GHz.

### **Electronic Warfare: Up to Ka band**



### **Electronic Warfare**







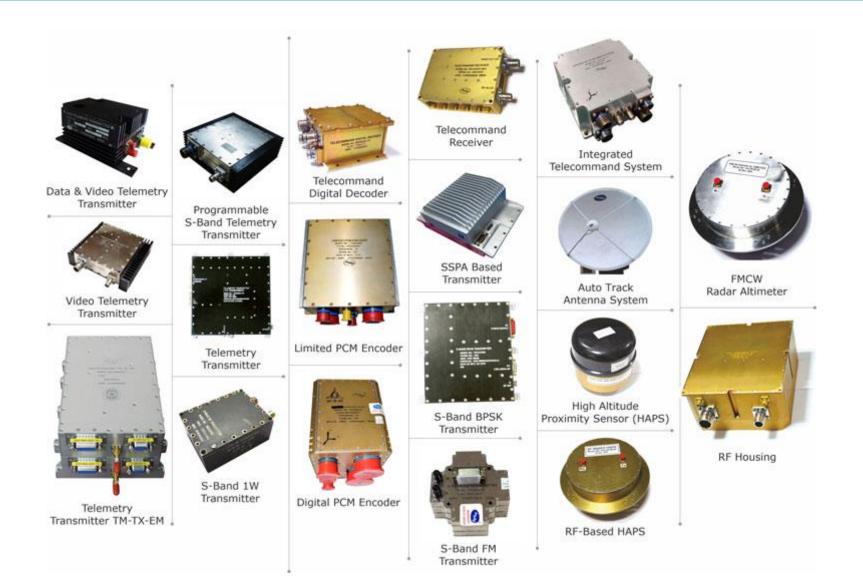
**Strategic Electronics** 



Also associated with Jammer's program of LCA Mk1A, Su-30 MKI and other fighter platforms in India.

### **Telemetry**





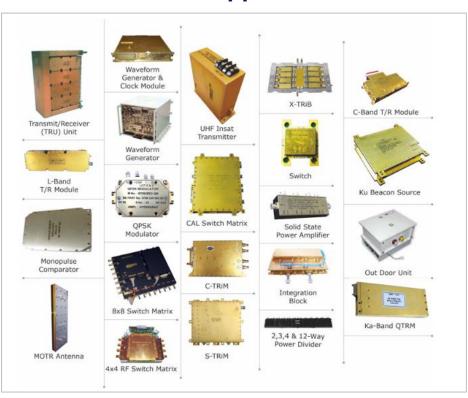


Supplying various subsystems for Telemetry applications such as S- Band FM Transmitter Airborne RF Trans receiver, Ground Up Down Converters, C & S band switch antenna systems, Telemetry Tracking Systems etc.

Supplying telemetry subsystems to LCA and Intermediate Jet Trainer (IJT) aircraft.



### **Ground Application**





Flight model



Designs, develops and manufactures components and sub-systems used in ground-based modules and Slevel (on-board) modules.

Astra have been among the key players for the development of sub-systems for India's Radar Satellite & Geosynchronous Satellite program, Resourcesat, Megatropics and Cartosat for Indian space programs by ISRO



The company's strong relationship with large corporations builds its brand equity and helps it in establishing itself as a prime contractor for large and longer-term programs in the marketplace. AMPL works on high-value complex projects awarded by companies.

- Receipt of order from the customers (such as government research organizations - Domestic & Foreign, private entities etc.)
- Customers provide the electrical and mechanical specifications of the modules or sub-systems as per their system requirements

Receipt of order via tender route

 Work with the customer team to specify the target specifications of the required module or sub system presenting the various options and latest technologies involved to finalize the target specifications.

R&D

 Realizing the product using the engineering expertise in- house and deliver a fully qualified product (airborne, naval or ground application) to its customers.

> Realization of the Product

 Once the system is qualified by the customer production orders are released.

Approval from authority

 Works with systems integrators like DPSUs (Defence Public Sector Undertakings) and others for commercialization of the products

Receipt of order from OEMs

28

High value addition leads to better margins

Astra Microwave has produced more than USD 150 million worth of high-end modules under BTP route.

- Works with many foreign OEMS for producing their products in India under this mode for meeting their offset requirements.
- Key customers include Elta Systems Ltd, ELBIT, Rafael, Thales.

Receipt of order from global OEMs

 Once the prototype is approved by the OEM, production commences.

Approval from Authority

 Production based on designs shared by OEMs.

**Production** 

Marginal value addition -Acts as a capacity filler

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### **Strategy for Growth**





#### New product development To accelerate growth

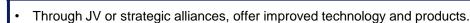
- Develop products in close association with government research organizations for defence and space.
- · Gol has introduced policy measures promoting Indigenous shipbuilding.
- Grow business by producing new and innovative products.
- · Enter commercial end user markets for radars.

#### Focus on Research & Development



- · Invest in modern technology and equipment's to address changing industry trends and customer requirements.
- Leverage strong R&D base to broad base domestic offerings.
- Developing digital expertise by spending more on R&D.

#### **Joint Ventures and Strategic alliances**



- Signed an MOU with Premier Explosives Limited and Entered into a joint venture with Manjeera Digital Systems
- Target the offset requirement in large defence procurement programmes of Gol.
- Exploring the areas in the anti drone, EW, satellites, SDRs and electro-optics through JVs.
- In discussion with our JV partners to expand the origin 21.30 like in the SDR product portfolio to develop EO (electro-optics) product line.



#### Reap benefits of sectoral tailwinds

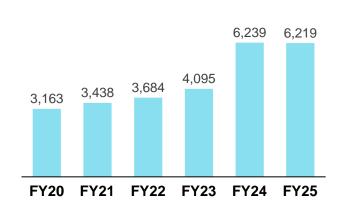
- By doing extensive investments to strengthen our position as a systems vendor.
- Bidding for the whole system the complete radar system for both DRDO and for future MoD requirements.
- Atmanirbhar Bharat initiative is To encouraging the industry develop the system either through in-house development or through foreign technology tie-up.

### Growing defence products opportunity



India's extensive modernisation plans, an increased focus on homeland security to increase government allocation for defence expenditure along with Make in India focus are expected to drive healthy growth in the sector

### Growing Defence Budget (in Bn INR)



### **Business Potential till 2028**

India is the 3rd largest military spender

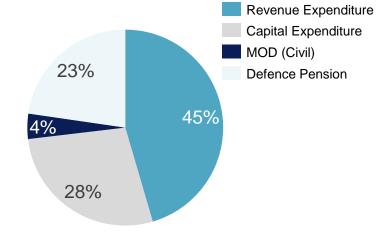
Rs. 4,000 Cr. Defense & Aerospace

Rs. 500 Cr. Space Rs. 1,500 Cr. Turnkey Projects, Metrology & System

Rs. 1,000 Cr. Export

Rs. 7,000 Cr. Total

### **Defence Budget Components - FY25**



Source: Ministry of Defence - Budget

### The Indian government has taken various initiatives to promote on indigenization in this space:

#### Atma Nirbhar Bharat

#### Imports Embargo

The Indian government has set the defence production target at USD 25 bn by 2025 (including US\$5 bn from exports by 2025)

ISRO has planned multiple deep space and experimental missions to strengthen India's position in global space industry through new technology development

Indigenous shipbuilding with a remarkable increase in capability and programme fulfillment

Defence Acquisition Procedure, 2020

Foreign Vendor

# CategoryIndigenous Content (IC)Buy (Indian-IDDM)Indigenous design and ≥ 50%Buy (Indian)In case of indigenous design ≥ 50%<br/>otherwise ≥ 60%Buy and Make (Indian)≥ 50% of the 'Make' portion Category<br/>not presentBuy (Global -<br/>Manufacture in India)50% or more

≥ 30%

Foreign Vendor - Nil/Indian Vendor

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### **Total Addressable Market**



31

Major opportunities for AMPL of around Rs 24,000-25,000 Crs across all sectors till FY28.



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Meteorology/

### **Opportunities**



Wide Array of Opportunities dueto Government

**Initiatives** 

Various government initiatives are encouraging the industry to develop the system either through in-house development or through foreign technology tie-up.

Astra in alliance with System Knowledge of its partners aims to deliver the product that meets Government thrust on Atma Nirbhar Bharat.

Getting opportunity from the Services to build for the intersystems.

Indian industries are getting opportunities to develop and supply products which are published as negative import list by GOI.

Astra will utilise its skill on design and production of high-end defense equipment in India and would also cater to the after-sale support.

Indigenous integrated and strategic defence and aerospace electronics solutions provider which is well positioned to benefit from the Atma Nirbhar Bharat inititative.

We aim to achieve 70% Domestic 30% Export Revenue distribution over next 2-3 years. Domestic business on an average carries 40 to 45% of gross margin as against 8 to 10% gross margin in exports.

### Defence Offset

The defence offset policy mandates a foreign vendor to source at least 30% of the value of an order (when the order is worth Rs.2,000 crore or more) from Indian manufacturers.

Astra has been active in tapping this opportunity and its export business is driven by these offset prov1s1ons.



#### Ready for Electronic Warfare

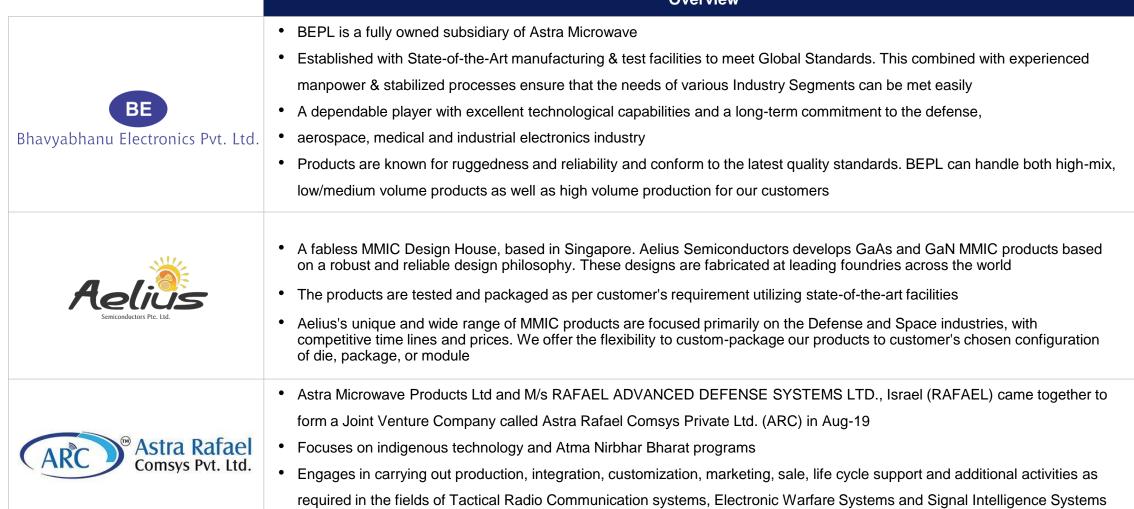
- Antennas
- EDLVA and BLI Super Components
- EW Simulators
- DIFM Receivers
- · Front End Receivers
- Up/Down convertors
- Homodyne Receivers

### Strategic Electronic Telemetry Sub-systems

- · Command guidance units
- Radio Proximity Fuze
- L, S, C & X-Band Transponders
- Phased Array based Telemetry Tracking System
- Sub-system for gimbal based and AESA Seeker
- Ground and Airborne data link systems
- Data and video Telemetry transmitters, Transponders,
- Encoders & decoders
   Telemetry Receivers

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#### Overview



### **Esteemed Clientele**











































Light Combat Aircraft

**AATRU** FOR ASPJ

**AAAU** for Uttam **AESA** 

Radar





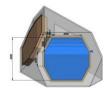














**AAAU** for **AEW&CS** 





















**AAAU for LRMFR** 





Medium **Power Radar DTRMs** 















Long Range Radar TRMs, BSNs, PS

### **Quality certifications**



### **Industry Leading Certifications**













### **Awards & Accolades**





LAToT Ceremony for Counter Drone System



Tripartite MoU for Uttam AESA AAAU for LCA Mk1A



G20 Space Economy Leadership Meet





Aero India 2023

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#### **Our Contribution towards the Society**

Eradicating hunger, poverty and malnutrition

**Promoting education** 

Promoting gender equality

Ensuring environmental sustainability

Protection of national heritage

Benefit of armed forces veterans

Training to promote rural sports

Contribution to the PM's National Relief Fund

Funds provided to technology incubators

Rural development projects











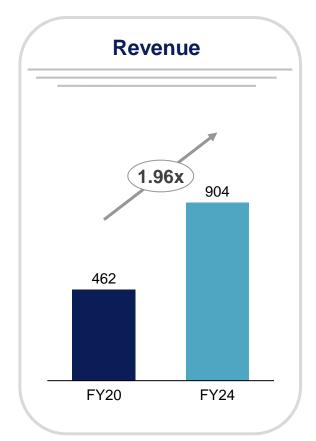
# **Historical Financials**

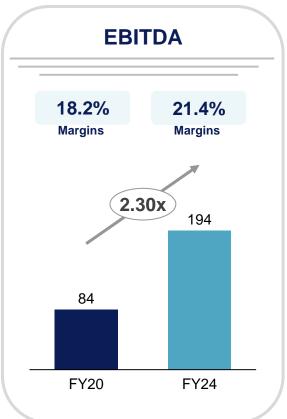


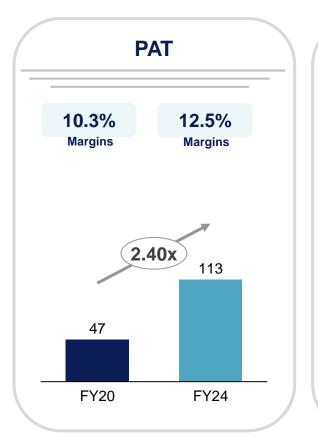
### **Robust Long-term Growth**

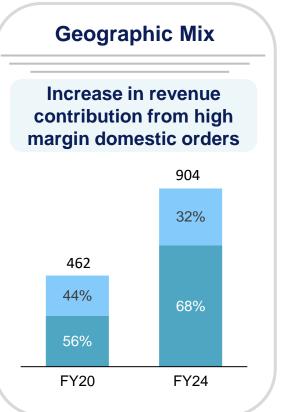


Rs. in Cr









### **Standalone Profit & Loss**



PARTICULARS (Rs. In Cr)	FY24	FY23	FY22	FY21	FY20
Revenue from Operations	904	807	735	589	462
Total Raw Material	551	519	524	418	267
Gross Profit	353	289	211	171	195
Gross Profit Margin	39.1%	35.7%	28.7%	29.0%	42.2%
Employee Expenses	104	87	73	64	66
Other Expenses	55	52	51	42	45
EBITDA	194	150	87	64	84
EBITDA Margin	21.4%	18.5%	11.8%	10.9%	18.2%
Other Income	12	6	7	12	12
Depreciation	25	23	22	23	25
EBIT	181	132	73	53	71
EBIT Margin	20.0%	16.3%	9.9%	9.0%	15.3%
Finance Cost	30	29	20	21	8
Profit before Tax	152	103	53	31	63
Profit before tax margin	16.8%	12.7%	7.2%	5.3%	13.6%
Tax	39	26	12	7	15
PAT	113	77	40	24	47
PAT Margin %	12.5%	9.5%	5.5%	4.1%	10.3%
EPS (Rs.)	12.00	8.85	4.65	2.76	5.47

### **Standalone Balance Sheet**



ASSETS (Rs. In Cr)	Mar-24	Mar-23	Mar-22	Mar-21	Mar-20
Non-Current Assets	249	228	215	202	213
Property, plant and equipment	169	165	158	150	158
Capital WIP	13	2	-	-	12
Investment in Associates	2	2	2	2	-
Investments in joint ventures	20	20	20	20	16
Investments in subsidiaries	16	15	15	13	8
Financial Assets					
i.Other Financial Assets	9	6	9	10	11
Deferred tax assets	9	8	6	2	-
Non-Current Tax Assets	-	5	3	-	5
Other non-current assets	11	5	3	3	2
Current assets	1,217	818	743	714	644
Inventories	505	396	402	291	226
Financial assets					
i. Investments	-	-	-	14	13
ii. Trade receivables	503	282	202	254	247
iii. Cash and cash equivalents	61	49	21	14	7
iv. Bank balances other than (iii) above	65	55	49	24	43
Other financial assets	-	-	4	13	-
Current tax assets (net)	1	-	1	1	-
Other current assets	82	36	62	103	107
Total assets	1,466	1,047	958	915	857

EQUITY AND LIABILITIES (Rs. In Cr)	Mar-24	Mar-23	Mar-22	Mar-21	Mar-20
Equity and Liabilities	968	653	590	561	547
Equity share capital	19	17	17	17	17
Equity attributable to owners of the Company	949	636	572	543	530
Non-current liabilities	73	77	47	4	3
Financial liabilities					
i. Borrowings	15	3	3	-	-
Provisions	10	6	4	4	3
Contract liabilities	48	68	40	-	-
Current liabilities	425	316	321	351	307
Financial liabilities					
i. Borrowings	211	166	56	100	47
ii. Trade payables	88	44	53	35	38
iii. Other financial liabilities	22	18	15	11	16
Current tax liabilities (net)	1	4	-	1	2
Provisions	4	4	3	2	2
Contract liabilities	75	79	192	201	201
Other current liabilities	24	3	2	2	1
Total equity and liabilities	1,466	1,047	958	915	857

### **Consolidated Profit & Loss**



PARTICULARS (Rs. In Cr)	FY24	FY23	FY22	FY21	FY20
Revenue from Operations	909	816	750	641	467
Raw Material Consumption	546	518	527	446	265
Gross Profit	363	297	223	195	202
Gross Profit Margin	39.9%	36.4%	29.7%	30.4%	43.2%
Employee Expenses	114	95	81	71	71
Other Expenses	58	54	53	45	48
EBITDA	192	148	89	79	82
EBITDA Margin	21.1%	18.1%	11.9%	12.3%	17.7%
Other Income	12	5	6	11	12
Depreciation	25	24	22	24	26
EBIT	178	129	74	66	69
EBIT Margin	19.6%	15.9%	9.8%	10.3%	14.7%
Finance Cost	31	31	21	25	8
Profit before share of profit/loss from JVs	147	99	52	41	60
Share of profits from JVs	12	-3	-2	-3	-1
Profit before Tax	159	96	50	39	59
Profit before tax margin	17.5%	11.8%	6.7%	6.0%	12.7%
Tax	39	26	12	10	15
PAT	121	70	38	29	44
PAT Margin %	13.3%	8.6%	5.0%	4.5%	9.4%
EPS (in Rs.)	12.80	8.06	4.37	3.33	5.08

Radar Electronics | Electronic Warfare | Missiles | Telemetry

### **Consolidated Balance Sheet**



ASSETS (Rs. In Cr)	Mar-24	Mar-23	Mar-22	Mar-21	Mar-20
Non-Current Assets	239	206	197	186	207
Property, plant and equipment	167	166	159	153	161
Capital WIP	13	2	0		12
Investment in Associates	2	2	2	2	
Investments in joint ventures	22	9	12	14	13
Intangible assets	3	1	1	-	-
Financial Assets					
ii. Other Financial Assets	10	7	11	11	11
Deferred tax assets	11	9	7	3	1
Non Current Tax Assets	-	6	3		6
Other non-current assets	11	5	3	3	2
Current assets	1,235	851	771	<i>7</i> 59	689
Inventories	514	419	419	330	284
Financial assets					
i. Investments	-	-	-	14	13
ii. Trade receivables	505	284	205	267	249
iii. Cash and cash equivalents	66	56	27	18	9
iv. Bank balances other than (iii) above	65	55	50	25	44
Other financial assets		0	3	13	0
Current tax assets (net)	1		1	1	
Other current assets	78	37	65	92	89
Assets classified as held for sale	5	-	-	-	-
Total assets	1,473	1,057	969	945	895

EQUITY AND LIABILITIES (Rs. In Cr)	Mar-24	Mar-23	Mar-22	Mar-21	Mar-20
Equity and Liabilities	966	643	586	559	540
Equity share capital	19	17	17	17	17
Equity attributable to owners of the Company	947	625	568	541	523
Non-controlling interest	0	0	0	0	0
Non-current liabilities	74	78	47	4	4
Financial liabilities					
i. Borrowings	15	3	3	-	-
Provisions	10	7	4	4	4
Contract liabilities	48	68	40		
Current liabilities	434	337	336	383	352
Financial liabilities					
i. Borrowings	221	182	67	122	55
ii. Trade payables	84	46	55	38	61
iii. Other financial liabilities	23	19	16	12	16
Current tax liabilities (net)	1	4	0	2	2
Provisions	4	4	4	2	2
Contract liabilities	76	79	192	203	210
Other current liabilities	25	3	2	5	5
Total equity and liabilities	1,473	1,057	969	945	895

### **Thank You**

For more information please contact:

### Company:



Astra Microwave Products Ltd.

**Astra Microwave Products Limited** 

CIN No: L293091G1991PLC013203

Mr. T. Anjaneyulu, GM – Company Secretary

Email id: <a href="mailto:secretarial@astramwp.com">secretarial@astramwp.com</a>

#### **Investor Relations Advisors:**

 $SGA \underline{\hbox{Strategic Growth Advisors}}$ 

**Strategic Growth Advisors Pvt Ltd.** 

CIN No: U74140MH2010PTC204285

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