

August 13, 2024

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

CIN: L29309TG1991PLC013203

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

To The Vice President, Listing Department The National Stock Exchange of India Limited Exchange Plaza Bandra Kurla Complex, Bandra (East) Mumbai 400 051

**Scrip code: 532493** 

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 Q1 & FY 25 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.

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

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 - 501510

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







Investor Presentation – August 2024

## Safe harbour



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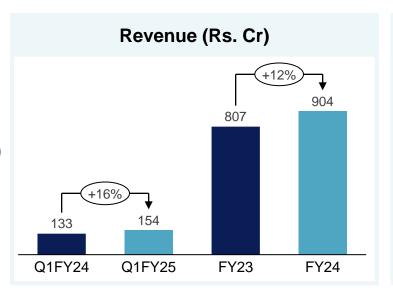
This presentation contains certain forward-looking statements concerning the Company's future business prospects and business profitability, which are subject to a number of risks and uncertainties and the actual results could materially differ from those in such forward-looking statements. The risks 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.

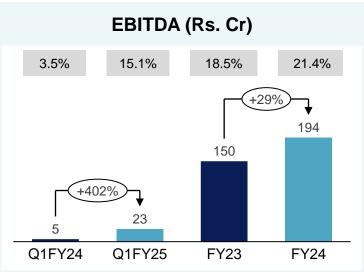
## **Performance Highlights**

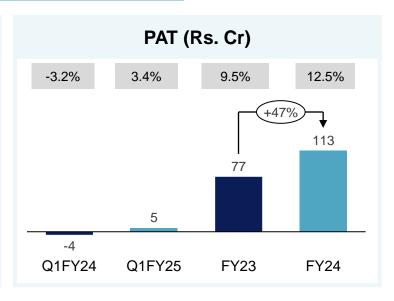


Margins

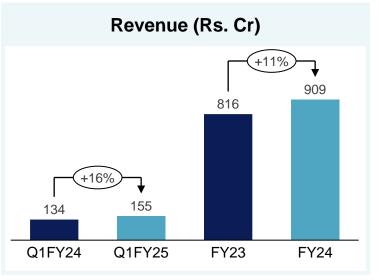
Standalone

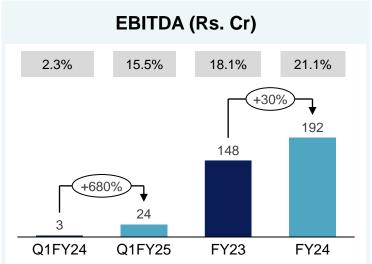


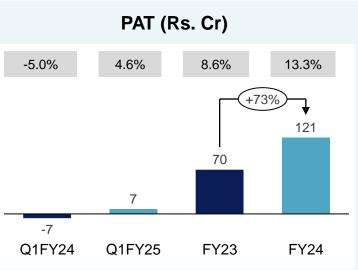




Consolidated







## **Robust Order Book**

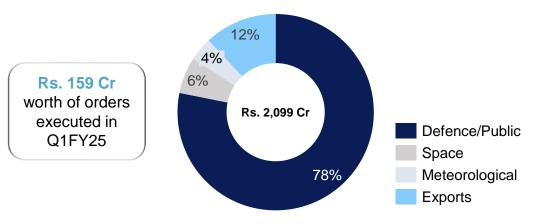


# Diversified Orderbook

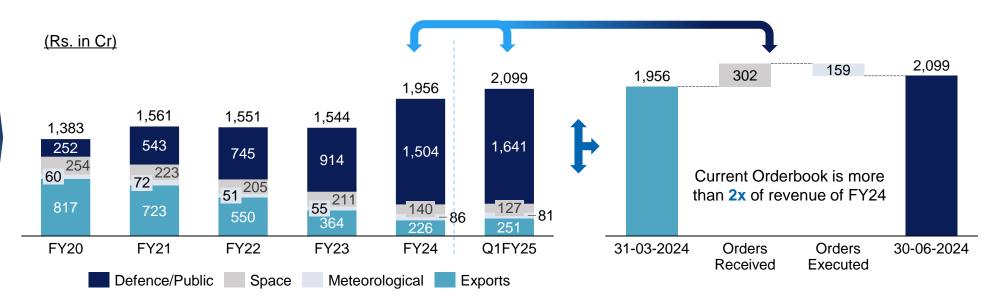
#### Total orders received during the quarter

| Sno | Segment Name   | Amount (Rs. Cr) |
|-----|----------------|-----------------|
| 1   | Defence        | 239.88          |
| 2   | Exports        | 57.66           |
| 3   | Space          | 4.59            |
| 4   | Meteorological | 0.05            |
|     | TOTAL          | 302.18          |

#### Segment Wise Order book



Historical Orderbook

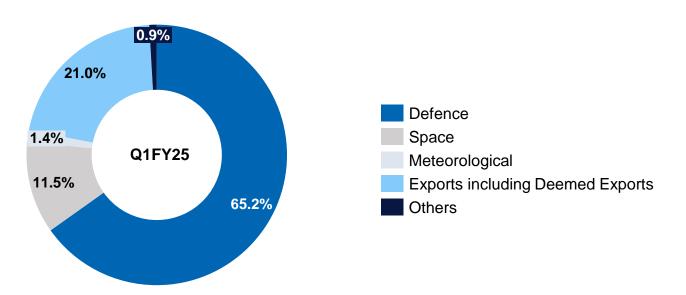


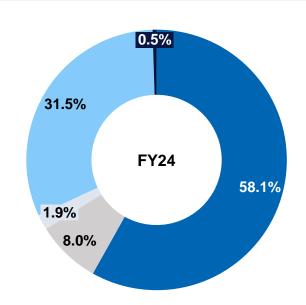
Radar Electronics | Electronic Warfare | Missiles | Telemetry | Space | Meteorology | Hydrology | Telecom

## Segmental Revenue Break-up



| Revenue Break-up in %            | Q1FY25 | Q4FY24 | Q3FY24 | Q2FY24 | Q1FY24 |
|----------------------------------|--------|--------|--------|--------|--------|
| Defence                          | 65.2%  | 58.0%  | 72.2%  | 56.1%  | 37.0%  |
| Space                            | 11.5%  | 14.0%  | 6.1%   | 3.1%   | 2.0%   |
| Exports including Deemed Exports | 21.0%  | 24.2%  | 20.3%  | 38.8%  | 59.8%  |
| Meteorological                   | 1.4%   | 3.5%   | 0.7%   | 1.2%   | 0.8%   |
| Others                           | 0.9%   | 0.3%   | 0.7%   | 0.7%   | 0.4%   |





## **Standalone Profit & Loss**



| (Rs. In Cr)              | Q1FY25 | Q1FY24 | YoY    | FY24  |
|--------------------------|--------|--------|--------|-------|
| Revenue from Operations  | 154    | 133    | 15.9%  | 904   |
| Raw Material Consumption | 90     | 96     |        | 551   |
| Gross Profit             | 64     | 37     | 75.9%  | 353   |
| Gross Profit Margin      | 41.8%  | 27.5%  |        | 39.1% |
| Employees Expenses       | 27     | 19     |        | 104   |
| Other Expenses           | 14     | 13     |        | 55    |
| EBITDA                   | 23     | 5      | 402.2% | 194   |
| EBITDA Margin            | 15.1%  | 3.5%   |        | 21.4% |
| Other Income             | 2      | 2      |        | 12    |
| Depreciation             | 8      | 6      |        | 25    |
| EBIT                     | 17     | 1      | -      | 181   |
| EBIT Margin              | 11.3%  | 0.9%   |        | 20.0% |
| Finance Cost             | 10     | 7      |        | 30    |
| Profit before Tax        | 7      | -6     | -      | 152   |
| Profit before Tax Margin | 4.7%   | -4.3%  |        | 16.8% |
| Tax                      | 2      | -1     |        | 39    |
| PAT                      | 5      | -4     | -      | 113   |
| PAT Margin %             | 3.4%   | -3.2%  |        | 12.5% |
| EPS (in Rs.)             | 0.55   | -0.47  |        | 12.00 |
|                          |        |        |        |       |

## **Consolidated Profit & Loss**



| (Rs. In Cr)                                 | Q1FY25 | Q1FY24 | YoY    | FY24  |
|---|--------|--------|--------|-------|
| Revenue from Operations                     | 155    | 134    | 16.0%  | 909   |
| Raw Material Consumption                    | 87     | 96     |        | 546   |
| Gross Profit                                | 68     | 38     | 80.1%  | 363   |
| Gross Profit Margin                         | 43.8%  | 28.2%  |        | 39.9% |
| Employee Expenses                           | 30     | 21     |        | 114   |
| Other Expenses                              | 14     | 13     |        | 58    |
| EBITDA                                      | 24     | 3      | 679.5% | 192   |
| EBITDA Margin                               | 15.5%  | 2.3%   |        | 21.1% |
| Other Income                                | 2      | 2      |        | 12    |
| Depreciation                                | 8      | 6      |        | 25    |
| EBIT  | 18     | -1     | -      | 178   |
| EBIT Margin                                 | 11.5%  | -0.4%  |        | 19.6% |
| Finance Cost                                | 10     | 7      |        | 31    |
| Profit before share of profit/loss from JVs | 7      | -8     | -      | 147   |
| Share of profits from JVs                   | 2      | 0      |        | 12    |
| Profit before Tax                           | 9      | -8     | -      | 159   |
| Profit before tax margin                    | 6.0%   | -6.1%  |        | 17.5% |
| Tax   | 2      | -1     |        | 39    |
| PAT   | 7      | -7     | -      | 121   |
| PAT Margin %                                | 4.6%   | -5.0%  |        | 13.3% |
| EPS (in Rs.)                                | 0.76   | -1.47  |        | 12.80 |

# **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**

- Various DRDO Labs
- o 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



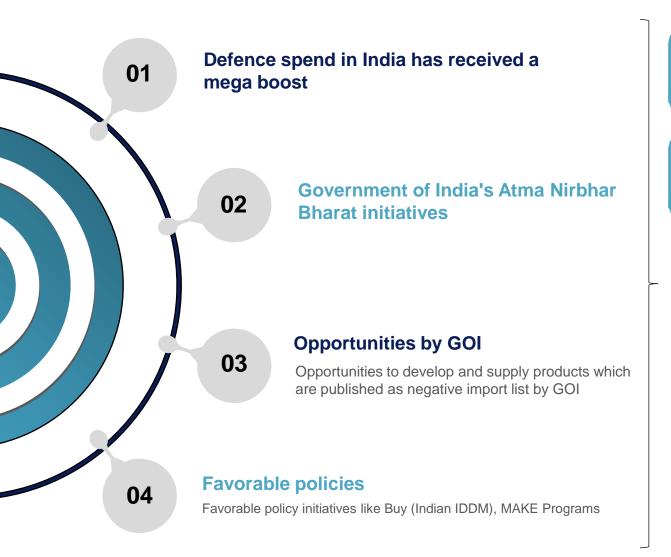
#### Key projects participated over time

- ✓ 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. 2,099 (Jun-24)

Sound visibility of revenues: Order book as on Jun-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**

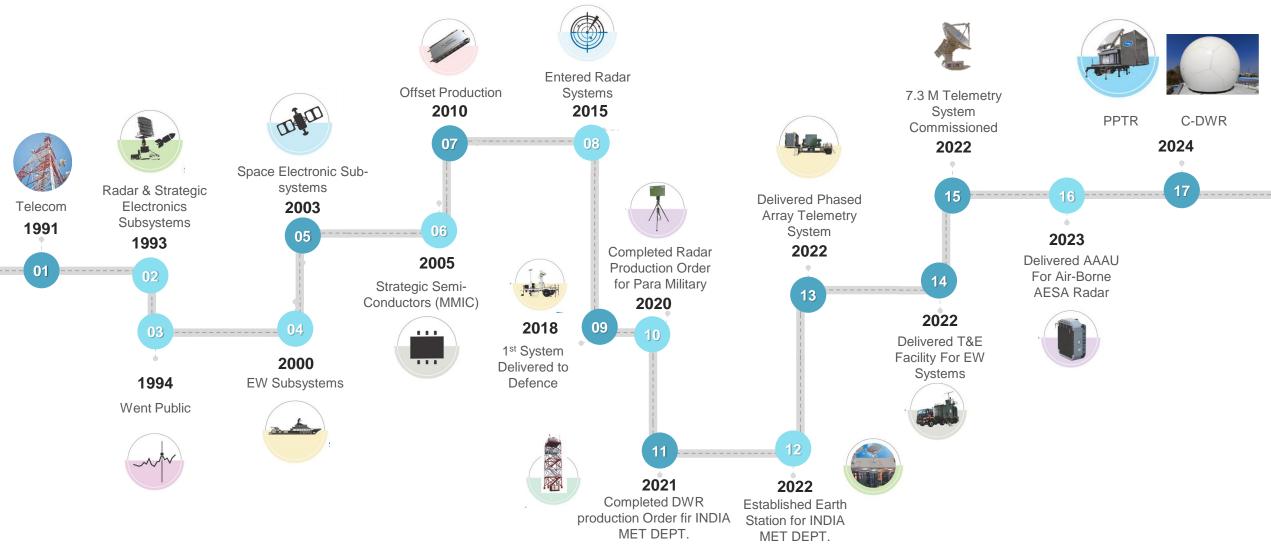




## Journey so far



## 30+ Years of Astra Microwave Products Ltd.



Radar Electronics

Electronic Warfare

Missiles

Telemetry

Space

Meteorology

Hydrology

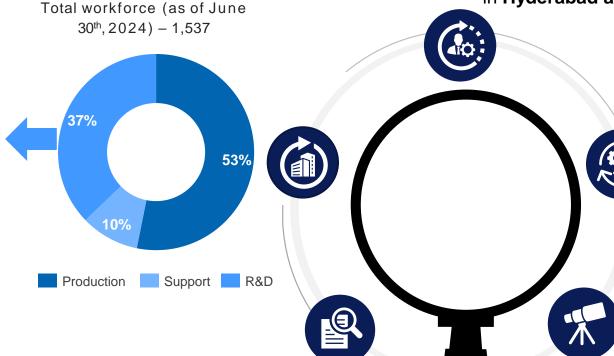
**Telecom** 

## Strong research and development capabilities



572 R&D
professionals, out
of which over 97
have a masters
degree, 4 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

## 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

Year :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

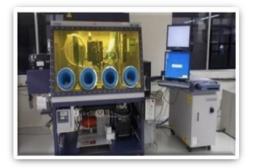
Multilayer Microstrip Antenna Assembly Facility



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

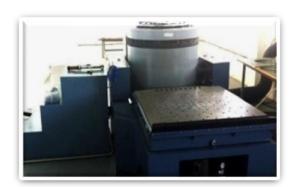
Weiss Chamber

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

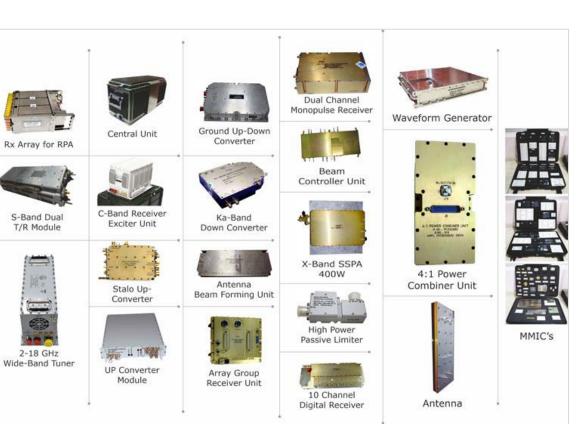
## Radar Electronics: Up to Ka band



## **Homeland security**

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







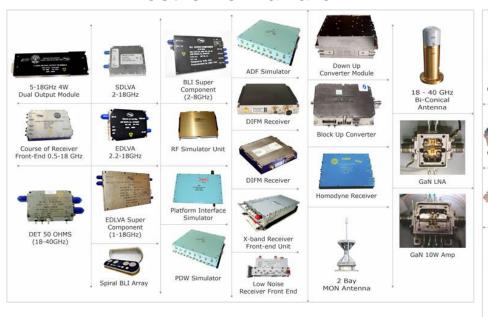
Design & Development of complete Active Array Antenna Unit (AAAU) hardware, Signal Processing & Radar Data Processing for AESA Multi-Function Radar

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

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



## **Electronic Warfare**







Supplying various kind of EW sub systems and components to DPSUs and to the programs of Indian Airforce, Indian Navy and Indian Army.

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.

- o 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**

o 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

> > 24

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.
- o 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**

o Production based on designs shared by OEMs.

**Production** 

Marginal value addition -Acts as a capacity filler

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

ဥ Build

## 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.





- · 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**



- Through JV or strategic alliances, offer improved technology and products.
- · 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



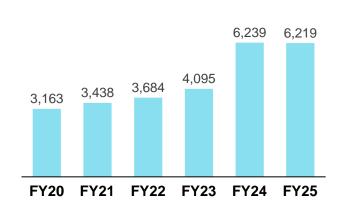
- By doing extensive investments to strengthen our position as a systems vendor.
- Bidding for the whole system the complete radar system for both DRDO and for future MoD requirements.
- Atmanirbhar Bharat initiative is To encouraging the industry develop the system either through in-house development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

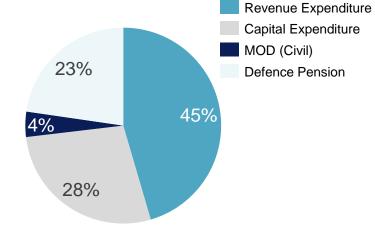
Rs. 4,000 Cr. Defense & Aerospace

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

# Category Indigenous Content (IC) Buy (Indian-IDDM) Indigenous design and ≥ 50% Buy (Indian) In case of indigenous design ≥ 50% otherwise ≥ 60% Buy and Make (Indian) ≥ 50% of the 'Make' portion Category not present Buy (Global - Manufacture in India) 50% or more Foreign Vendor Foreign Vendor - Nil/ Indian Vendor

≥ 30%

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

## **Total Addressable Market**



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



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.

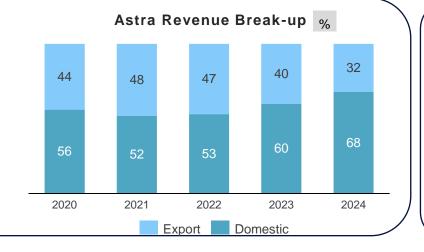
Indigenous integrated and strategic defence and aerospace electronics solutions provider which is well positioned to benefit from the Atma Nirbhar Bharat inititative.

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

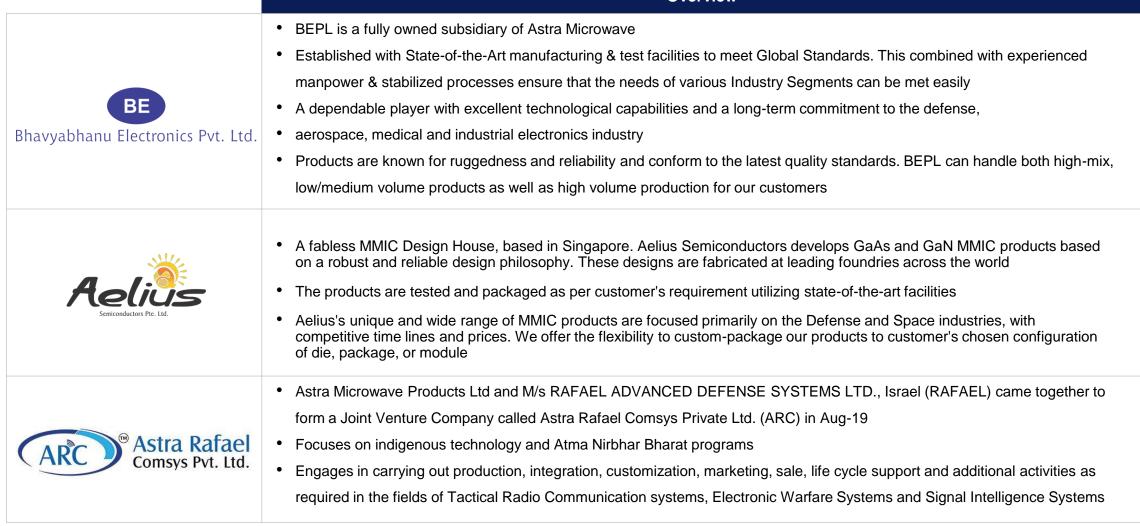
- Antennas
- EDLVA and BLI Super Components
- EW Simulators
- DIFM Receivers
- · Front End Receivers
- Up/Down convertors
- Homodyne Receivers

## 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

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

#### Overview



## **Esteemed Clientele**







































MARL











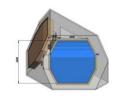












**AAAU for LRMFR** 

























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

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



#### **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











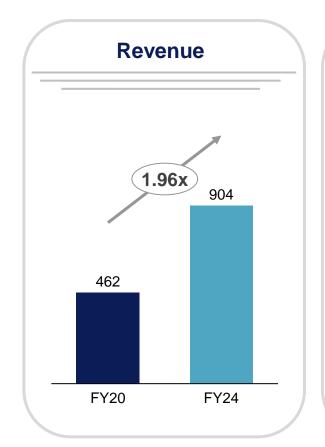
# **Historical Financials**

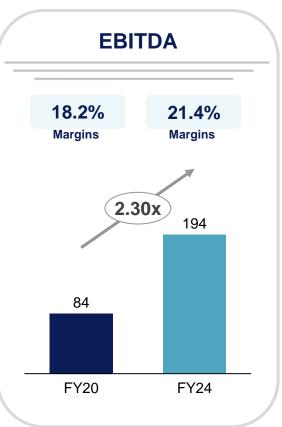


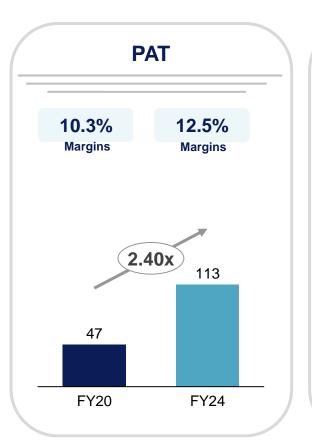
## **Robust Long-term Growth**

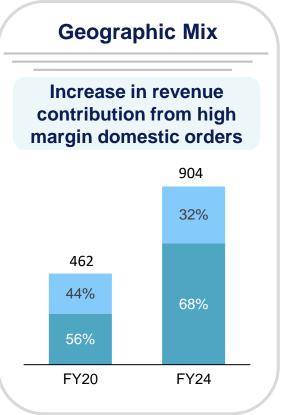


Rs. in Cr









## **Standalone Profit & Loss**



|                          |       | <b></b> | <b>-</b> | <b>-</b> 2000 | <b>-</b> 1/400 |
|--------------------------|-------|---------|----------|---------------|----------------|
| 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)<br>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  |
|   |       |       |       |       |       |

## **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

Shikha Puri / Dharmik Kansara

Email id: <a href="mailto:shikha.puri@sgapl.net/dharmik.k@sgapl.net">sgapl.net</a> / <a href="mailto:dharmik.k@sgapl.net">dharmik.k@sgapl.net</a> / <a href="mailto:dharmik.k@sgapl.net">dharmik.dharmi

Tel No: +91 9819282743 / +91 72081 79323

