

ASTRA MICROWAVE PRODUCTS LIMITED

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

CIN: L29309TG1991PLC013203

May 26, 2022

To
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 Q4 & FY 22 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

T. Anjaneyh



Works:

Unit 1 : Plot No. 12, ANRICH Industrial Estate, Bollaram, Medak Dist., Telangana State - 502 325

Unit 2 : Plot No. 56A, ANRICH Industrial Estate, Bollaram, Medak Dist., Telangana State - 502 325

Unit 3 : Sy. No. 1/1, Imarath Kancha, Raviryala (Vil), Maheshwaram (Mdl) R.R. Dist., Telangana State - 500 005

Unit 4: Sy. No. 1/1, Plot No. 18 to 21. Imarath Kancha, Hardware Park, Raviryala (V), Maheshwaram (M) R.R. Dist., T.S. - 500 005 R&D Centre: Plot No. 51 P, Bengaluru Aerospace Park(KIADB), Survey Nos Parts of 36 to 40, Bengaluru North, K.S. - 562 149.



Astra Microwave Products Ltd.

Investor Presentation – Q4 FY22





Safe harbour



This presentation and the accompanying slides (the "Presentation"), which have been prepared by **Astra Microwave Products Ltd.** (the "Company"), have been prepared solely for information purposes and do not constitute any offer, recommendation or invitation to purchase or subscribe for any securities, and shall not form the basis or be relied on in connection with any contract or binding commitment whatsoever. No offering of securities of the Company will be made except by means of a statutory offering document containing detailed information about the Company.

This Presentation has been prepared by the Company based on information and data which the Company considers reliable, but the Company makes no representation or warranty, express or implied, whatsoever, and no reliance shall be placed on, the truth, accuracy, completeness, fairness and reasonableness of the contents of this Presentation. This Presentation may not be all inclusive and may not contain all of the information that you may consider material. Any liability in respect of the contents of, or any omission from, this Presentation is expressly excluded.

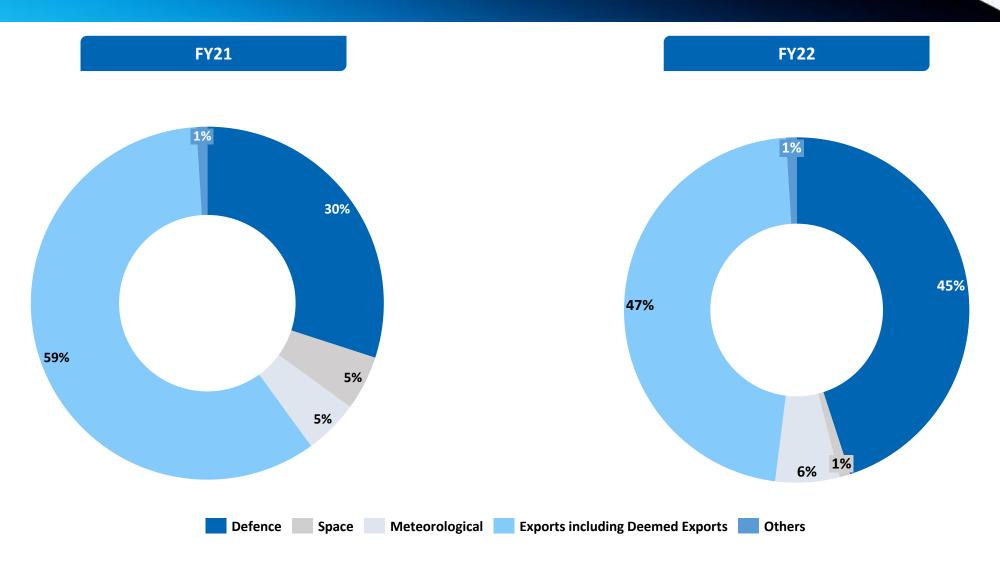
This presentation contains certain forward-looking statements concerning the Company's future business prospects and business profitability, which are subject to a number of risks and uncertainties and the actual results could materially differ from those in such forward-looking statements. The risks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

Quarterly Highlights



Segmental Revenue Break-up

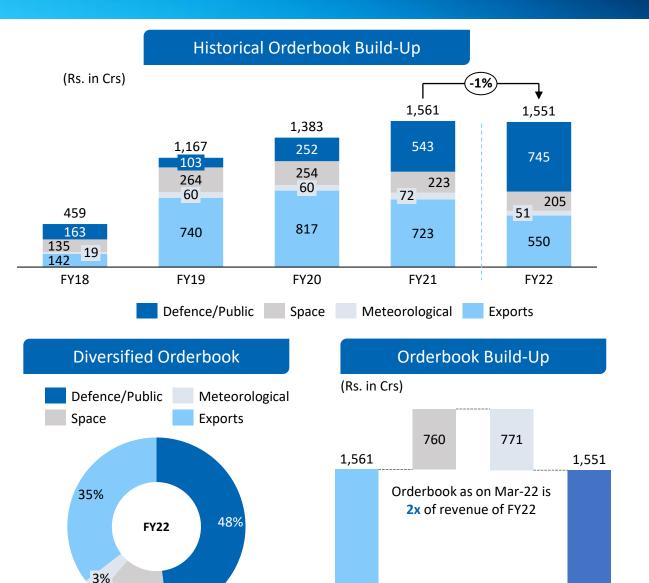




Robust Orderbook

13%





01-04-2021

Orders

Received

Orders

Executed

31-03-2022

Orderbook Updates

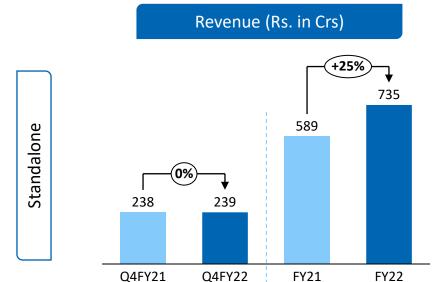
Key orders received during the quarter

Description	Value (Rs. Cr)
Electronics for AEW&C	29.00
Manpack Radio Modules	20.59
SDR Modules	12.27
Electronics for LRSAM	3.78
NGARM Commn. Modules	3.60
X-Band Core Chip & LNA to BEL	2.50
Counter-Drone Radar Electronics	2.07
Akash-NG Missile Electronics to DRDO	1.80
Astra Missile Electronics to BDL	1.80

- Diversified orderbook across sectors giving us strong revenue visibility for the coming years
- Existing domestic and export orderbooks and the projects like Akash
 & opportunities in radar systems give us a revenue visibility on a sustainable basis
- Huge opportunity in the areas of anti-drone, EW, satellites, SDRs and electro-optics which will add up to the orderbook at revenues going forward

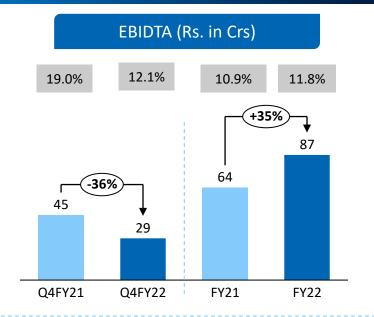
Performance Highlights

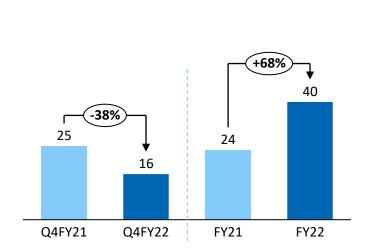




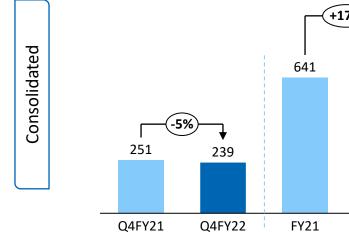
750

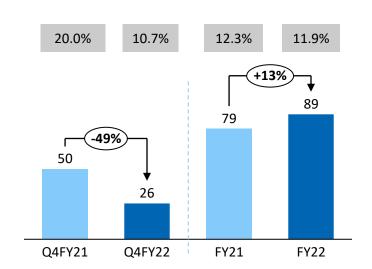
FY22

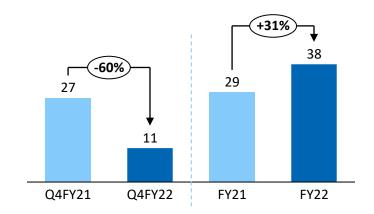




PAT (Rs. in Crs)







Q4 & FY22 Standalone Profit & Loss Statement



PARTICULARS (Rs. In Cr)	Q4FY22	Q4FY21	YOY	FY22	FY21	YOY
Revenue from Operations	238.9	238.1	0.3%	735.0	589.2	24.7%
Raw Material Consumption	170.8	166.8		523.8	418.5	
Gross Profit	68.1	71.4	-4.6%	211.2	170.7	23.7%
Gross Profit Margin	28.5%	30.0%		28.7%	29.0%	
Employees Expenses	23.2	21.0		73.3	64.1	
Other Expenses	15.9	5.1		50.9	42.4	
EBITDA	29.0	45.2	-35.8%	86.9	64.2	35.4%
EBITDA Margin	12.1%	19.0%		11.8%	10.9%	
Other Income	2.1	6.8		7.3	11.7	
Depreciation	6.1	5.8		21.6	23.1	
EBIT	25.0	46.2	-45.9%	72.6	52.8	37.6%
EBIT Margin	10.5%	19.4%		9.9%	9.0%	
Finance Cost	4.2	13.3		19.9	21.4	
Profit before Tax	20.8	33.0	-37.0%	52.7	31.4	68.2%
Profit before Tax Margin	8.7%	13.8%		7.2%	5.3%	
Tax	5.2	7.7		12.5	7.4	
PAT	15.6	25.3	-38.5%	40.3	23.9	68.3%
PAT Margin %	6.5%	10.6%		5.5%	4.1%	
EPS (in Rs.)	1.80	2.92		4.65	2.76	

Company Overview



Astra: A Company With Deep Domain Expertise...



With over 30 years of experience in in microwave radio-frequency (RF) applications, Astra has moved up the value chain from **sub-systems to high value-added systems**. The company's products find applications in **high end markets of Defense, Space, Telecom, Meteorology** and Civil communications.

Wealth of Experience

More than 30 years of domain expertise in microwave radio-frequency (RF) applications domain

Promoted by a team of distinguished scientists from DRDO

Strong R&D capabilities

Track record of new product development; now graduated to a SYSTEM integrator in Radars Dedicated R&D facility at Bengaluru to manufacture radars

State-of-the-Art Facilities

5 facilities in Hyderabad

Continuous investment in World Class Infrastructure for Assembly, Functional and Environment testing. Astra's facilities are approved by several foreign companies for production

Longstanding relationship with customers

Recognized as a qualified vendor by defense research establishments

Clientele includes Indian Government Laboratories, Indian Defense Public Sector Undertakings, Indian Space Research Organization and many foreign OEM's

... Poised for Strong Growth Amidst Sectoral Tailwinds





Designed, Developed

and Manufactured),

MAKE-II, MAKE-III

import list by GOI

Healthy orderbook

Orderbook worth

Rs. 1,551 cr

Offers sound visibility of revenues

Orderbook as on Mar-22 is 2x of revenue of FY22

- Astra has a proven track record of value-added making high SYSTEMS, RF and microwave super components and sub-systems which are becoming more relevant due to various government initiatives like IDDM, MAKE-II
- Astra has been able to create a diversified and healthy orderbook on the back of its strong capabilities
- Astra 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

Longstanding Position in the Industry

Exchanges

Raised money through IPO to

invest in Infrastructure,

People & Test Facilities

Supplied products to customers

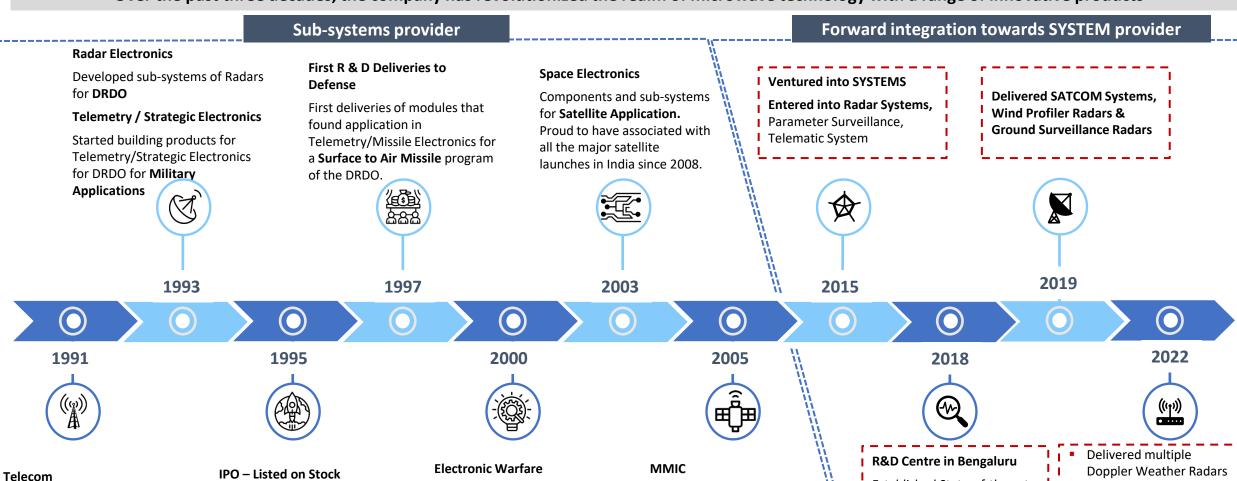
to set up their telecom base on

the back of telecom revolution

in India



Over the past three decades, the company has revolutionized the realm of microwave technology with a range of innovative products



In-house design team in order

MMIC's for the ability to control

to design and develop critical

production requirements of

critical devices in house

Supplied many critical and

wide band products for EW

application, especially in the

Naval domain

Received LAToT from

DRDO for Anti-Drone

Surveillance Radar, Parth

System, Coastal

& Prachand Mines

Established State-of-the-art

Integration & Testing Facility.

Started delivery of first

System to Defence-PATM

Radar System R&D,

Product Range



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

Defence

- Radars
- Electronic Warfare
- Strategic Electronics
- Telemetry
- Avionics

Space

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

Hydro/ Meteorology

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

Others

- Antennas
- MMIC
- Homeland Security
- Contract Manufacturing

Strong R&D Capabilities...



Through its focus on R&D, the company develops innovative designs useful for the manufacture of cost-effective products

Engineering Capabilities In-house PCB assembly facility Strong in-house capability in the In-house Mechanical design & microwave radio-frequency (RF) simulation R&D applications domain Executes orders through BTS (Build To In-house digital R&D In-house environmental qualification Specifications) and BTP (Build To Print) facility route **Dedicated Facility in Bengaluru** Astra Research and Development center is recognized by the Department of Scientific and Industrial Investing further to develop expertise Research, Ministry of Science and on system design and integration Technology, Government of India

Key product developments

Strong track record of new product development and seamless execution leading to new orders

- Defence Developed sub-systems for various defence programs and new technologies in India for radars such as Ashlesha, LRTR, CSR, AESA radars, BFSR, 3D-CAR, AEW&C and electronic warfare equipment
- Space Developed sub-systems for India's RISAT & GSAT program, Resourcesat, Megatropics, Cartosat
- Meteorology Developed and manufactured DWR (Doppler Weather Radar), Wind Profiler Radar (WPR), automatic weather stations along with met towers, Agromet towers, hydrology stations

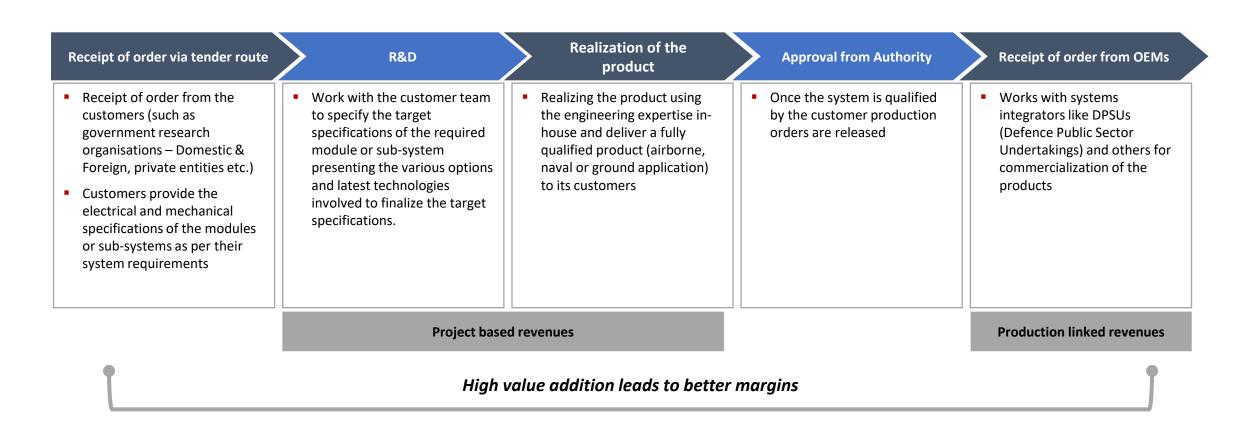
Average 2-3% of Total Revenue is spent on R&D Annually

A team of more than 400 R&D experts (including PhD, M Tech/B Tech, ITI – Diploma, PG/Graduates) works together on various initiatives

Serving Markets Through Build To Specifications (BTS) Orders and...



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



... Build To Print (BTP) Orders



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

Receipt of order from global OEMs - 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 - Once the prototype is approved by the OEM, production commences - Production based on designs shared by OEMs - Production based on designs shared by OEMs - Production based on designs shared by OEMs - Production linked revenues

Guided by Eminent Board of Directors





- Former Secretary, Defence R&D and Director General, DRDO
- Eminent scientist in the field of missiles and has been a pioneer in Strapdown Inertial navigation & Guidance
- Instrumental in development of several critical technologies in the field of radars, simulation, propulsion, control and System engineering

Dr. Avnish ChanderChairman & Independent Director



- 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.

Mr. S. Gurunatha Reddy Managing Director



- 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

Mr. M. V. Reddy Joint Managing Director



- 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.



- 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

Mr. Atim Kabra Non-Executive Director



- 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.

Ms. Kiran Dhingra
Independent Director



Mr. S. K. Sharma
Independent Director

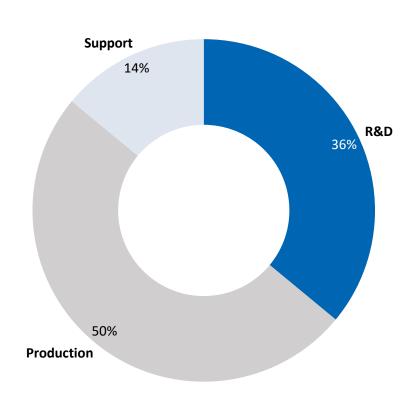
 Served as CMD of Bharat Electronics Limited country's largest enterprise in professional and defence electronics, where he was responsible for redefining the company vision for aggressive growth, achieving all time high sales turnover, profitability and a robust order-book.

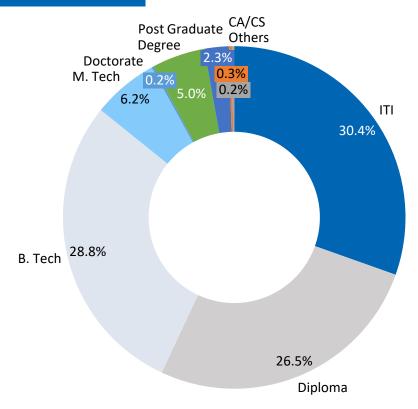
Our Intellectual Capital



Astra has a highly experienced workforce (including 401 technocrats of which two are Doctorates) which keeps the company on forefront of technology. Its employees are continuously trained through in-house workshops and external programs

Total workforce (as on March 31st, 2022) - 1,240





Our Subsidiaries & JV



		Overview
iaries	BE Bhavyabhanu Electronics Pvt. Ltd.	 BEPL is a fully owned subsidiary of Astra Microwave Established with State-of-the-Art manufacturing & test facilities to meet Global Standards. This combined with experienced man power & stabilized processes ensure that the needs of various Industry Segments can be met easily. A dependable player with excellent technological capabilities and a long-term commitment to the defense, aerospace, medical and industrial electronics industry Products are known for ruggedness and reliability and conform to the latest quality standards. BEPL can handle both high-mix, low/medium volume products as well as high volume production for our customers.
Subsidia	Aelius Semiconductors Pte. Ltd.	 A fabless MMIC Design House, based in Singapore. Aelius Semiconductors develops GaAs and GaN MMIC products based on a robust and reliable design philosophy. These designs are fabricated at leading foundries across the world. The products are tested and packaged as per customer's requirement utilizing state-of-the-art facilities Aelius's unique and wide range of MMIC products are focused primarily on the Defense and Space industries, with competitive time lines and prices. We offer the flexibility to custom-package our products to customer's chosen configuration of die, package, or module.
2	ARC Astra Rafael Comsys Pvt. Ltd.	 Astra Microwave Products Ltd and M/s RAFAEL ADVANCED DEFENSE SYSTEMS LTD., Israel (RAFAEL) came together to form a Joint Venture Company called Astra Rafael Comsys Private Ltd. (ARC) in Aug-19 Focuses on indigenous technology and Atma Nirbhar Bharat programs

• Engages in carrying out production, integration, customization, marketing, sale, life cycle support and additional activities as required in the fields of Tactical Radio Communication systems, Electronic Warfare Systems and Signal Intelligence Systems.

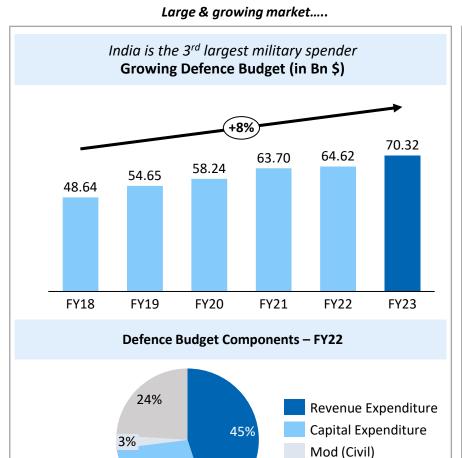


Indian Defence Industry... is **Growing**

Defense Pensions



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



28%

....with strong sectoral tailwinds

The Indian government has taken vin this space:	arious initiatives to promote on indigenization
Atma Nirbhar Bharat	Imports Embargo
The Indian government has set the 2025 (including US\$5 bn from expo	defence production target at USD 25 bn by rts by 2025)
	ace and experimental missions to strengthen stry through new technology development
Indigenous shipbuilding with a rema fulfilment	arkable increase in capability and programme
Defence Acquisition Procedure, 202	20
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
Buy and Make	Category not present
Buy (Global-Manufacture in India)	50% or more
Buy (Global)	Foreign Vendor – Nil/ Indian Vendor ≥ 30%

Business Potential till 2028....

Defence						
Radars & Counter-Drone Systems	Rs. 8,000 Cr.					
Strategic Electronics & Telemetry	Rs. 1,450 Cr.					
Electronic Warfare	Rs. 900 Cr.					
Space						
On board Satellite	Rs. 1,750 Cr.					
Ground based	Rs. 800 Cr.					
Hardwala wa / Nashwala wa	D- C00 C					
Hydrology/Metrology	Rs. 600 Cr.					
Export	Rs. 1,000 Cr.					
TOTAL	Rs. 14,500 Cr.					

Source: Ministry of Defence, various news articles

DAP 2020: Make & Innovation Policies



Make	Make I (Government Funded)	 Projects involving design and development of equipment, systems, major platforms or upgrades thereof by the industry. For Projects under Make-I sub-category, MoD will provide financial support upto 70% of prototype development cost or maximum ₹ 250 crores per Development
	Make II (Industry Funded)	This would include design and development and innovative solutions by Indian vendor, for which no Government funding will be provided. In Make-II, where solutions have been offered even by a single individual or a firm as a Suo-Moto proposal, the cases would be progressed as a Resultant Single Vendor. However, SHQ should seek for multivendor options in such cases, if feasible, before progressing the case as Single Vendor Case.
	Make III	 Although would not be designed/developed indigenously but can be manufactured in India as import substitution for product support of weapon systems/equipment held in the inventory of the Services. Indian firms may manufacture these either in collaboration or with ToT from foreign OEMs. In this category, an Indian vendor can enter into a JV with OEM.
	Innovations for Defence Excellence ("iDEX")	 Projects of Start-ups, MSMEs etc. with low capital investments and high innovation would be pursued under the iDEX category.
Innovation	Technology Development Fund (TDF) Scheme	 Projects supported through TDF of DRDO for leveraging the domestic capabilities available with Indian Industries especially MSMEs including Start-ups.
	Indigenous Development by Services through Internal Organisations	 These would include projects where prototype development of equipment/system will be processed by the Services through their internal R&D organisations, such as Base workshop/Dockyards/ Base Repair Depots/ internal indigenisation Organisations/ Design Agency, etc.

Source: Ministry of Defence, various news articles

Our Strategy for Growth...



Key Business Strategy

New product development to accelerate growth

Focus on Research & Development

Joint Ventures and Strategic alliances

Reap benefits of sectoral tailwinds

- 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

- 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 antidrone, 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

- 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.
- Atma Nirbhar Bharat initiative is encouraging the industry to develop the system either through in-house development or through foreign technology tie-up

... In the Changing Landscape of Opportunities

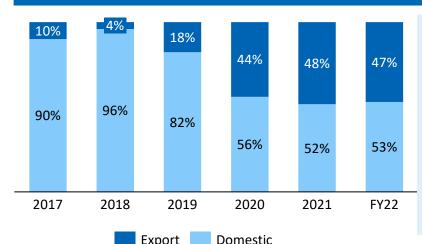


India's Astra





Geographical distribution of Revenue



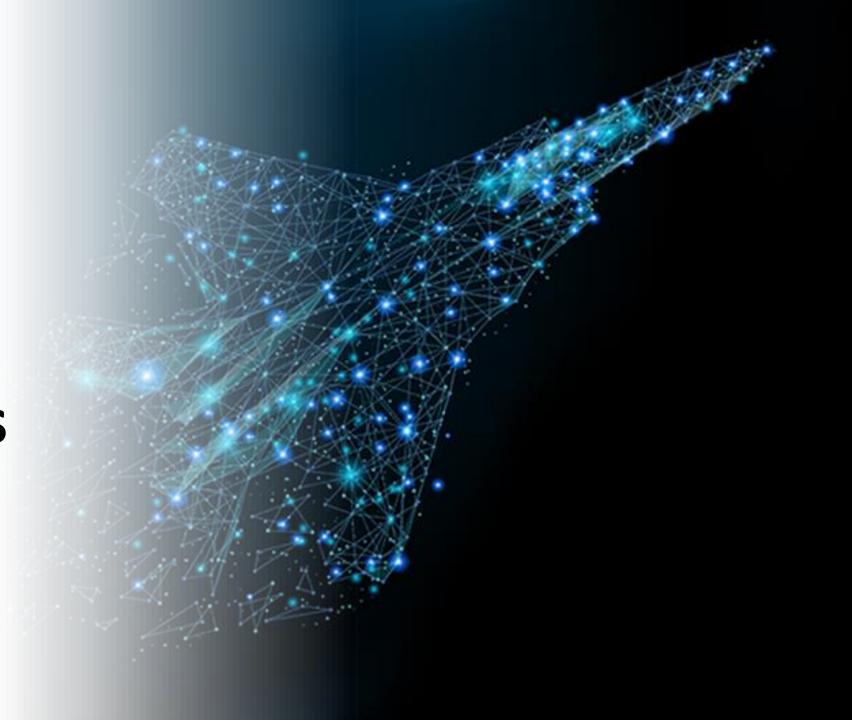
The defence offset policy mandates a foreign vendor to source at least 30% of the value of an order (when the order is worth Rs.2,000 crore or more) from Indian manufacturers.

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

Wide Array of Opportunities due to Government Initiatives

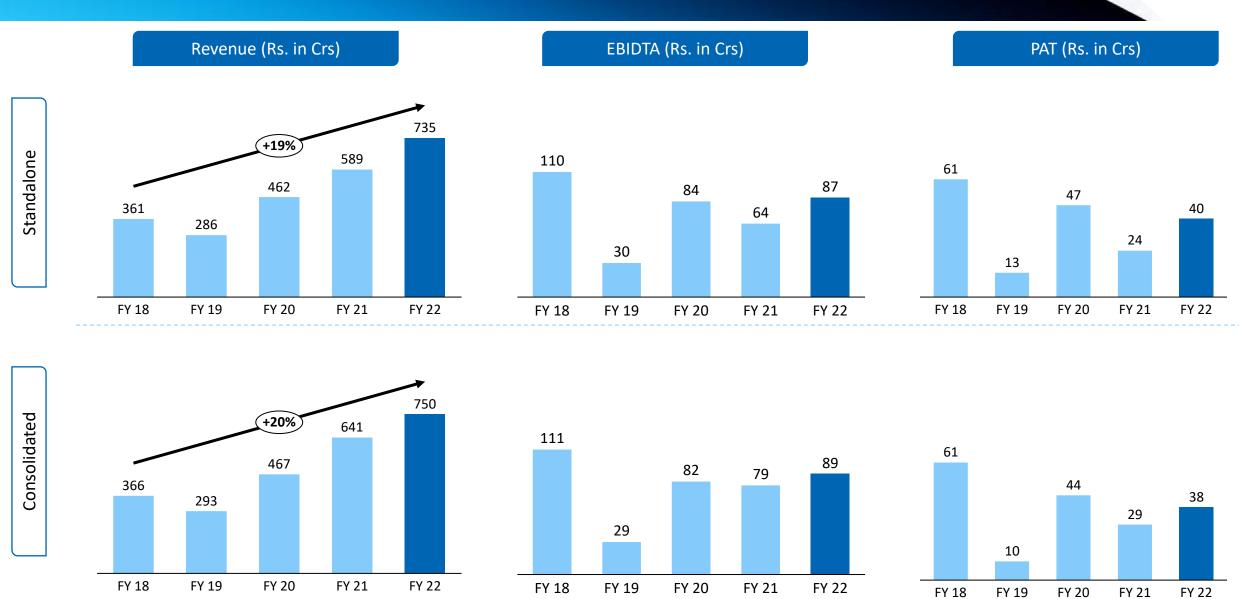
- Various government initiatives are encouraging the industry to develop the system either through in-house development or through foreign technology tie-up
- Astra Microwave in alliance with System Knowledge of its partners aims to deliver the product that meets Government thrust on Atma Nirbhar Bharat
- 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

Historical Financials



Historical Performance Highlights





Historical Standalone Profit & Loss



PARTICULARS (Rs. In Cr)	FY22	FY21	FY20	FY19	FY18
Revenue from Operations	735.0	589.2	461.6	286.2	360.5
Total Raw Material	524	418	267	159	152
Gross Profit	211.2	170.7	194.7	126.9	208.5
Gross Profit Margin	28.7%	29.0%	42.2%	44.3%	57.8%
Employee Expenses	73	64	66	61	66
Other Expenses	51	42	45	36	33
EBITDA	86.9	64.2	83.8	29.8	109.5
EBITDA Margin	11.8%	10.9%	18.2%	10.4%	30.4%
Other Income	7	12	12	24	8
Depreciation	22	23	25	29	27
EBIT	72.6	52.8	70.5	25.7	90.9
EBIT Margin	9.9%	9.0%	15.3%	9.0%	25.2%
Finance Cost	20	21	8	9	12
Profit before Tax	52.7	31.4	62.7	16.7	78.9
Profit before tax margin	7.2%	5.3%	13.6%	5.9%	21.9%
Tax	12	7	15	4	18
PAT	40.3	23.9	47.3	12.5	60.7
PAT Margin %	5.5%	4.1%	10.3%	4.4%	16.8%
EPS (Rs.)	4.65	2.76	5.47	1.45	7.01

Historical Standalone Balance Sheet



ASSETS (Rs. In Cr)	Mar-22	Mar-21	Mar-20	Mar-19	Mar-18
Non-Current Assets	215	202	213	222	217
Property, plant and equipment	158	150	158	176	193
Capital WIP	0	0	12	2	1
Investment in Associates	2	2	-	-	-
Investments in joint ventures	20	20	16	16	
Investments in subsidiaries	15	13	8	8	6
Financial Assets					
i.Other Financial Assets	9	10	11	12	17
Deferred tax assets	6	2	0	-	-
Non Current Tax Assets	3	-	5	5	-
Other non-current assets	3	3	2	2	1
Current assets	743	714	644	391	457
Inventories	402	291	226	130	104
Financial assets					
i. Investments	-	14	13	20	126
ii. Trade receivables	202	254	247	190	188
iii. Cash and cash equivalents	21	14	7	7	21
iv. Bank balances other than (iii) above	49	24	43	18	8
Other financial assets	4	13	0	-	-
Current tax assets (net)	1	1	-	-	-
Other current assets	62	103	107	26	11
Total assets	958	915	<i>857</i>	613	674

EQUITY AND LIABILITIES (Rs. In Cr)	Mar-22	Mar-21	Mar-20	Mar-19	Mar-18
Equity and Liabilities	590	561	547	503	502
Equity share capital	17	17	17	17	17
Equity attributable to owners of the Company	572	543	530	486	484
Non-current liabilities	47	4	3	9	20
Financial liabilities					
i. Borrowings	3	-	-	5	14
Deferred tax liabilities (net)	-	-	-	5	4
Provisions	4	4	3	-	1
Contract liabilities	40	-	-	-	-
Current liabilities	321	351	307	101	152
Financial liabilities					
i. Borrowings	56	100	47	0	20
ii. Trade payables	53	35	38	22	14
iii. Other financial liabilities	15	11	16	20	66
Current tax liabilities (net)	-	1	2	-	2
Provisions	3	2	2	3	5
Contract liabilities	192	201	201	51	24
Other current liabilities	2	2	1	5	23
Total equity and liabilities	958	915	<i>857</i>	613	674

Annexure



State of the Art Infrastructure...



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

Etching developing

		Hyderabad, Telangana			Karnataka
Unit I	Unit II	Unit III	Unit IV	Unit VII	Bengaluru Unit
Land : 1.13 Acres	Land: 2.0 Acres	Land: 9.9 Acres	Land: 19.0 Acres	Land: 0.59 Acres	Land : 5.0 Acres
Building : 18,000 Sq. Ft	Building: 20,000 Sq. Ft	Building: 77,000 Sq. Ft	Building: 1,80,000 Sq. Ft	Building: 23,000 Sq. Ft	Building: 1,00,000 Sq. Ft
Status : Own	Status : Own	Status : Own	Status : Own	Status : Own	Status : Own
Year : 1999	Year : 1995	Year : 2003	Year : 2009	Year: 2019	Year : 2012
Facility Offering	Facility Offering	Facility Offering	Facility Offering	Facility Offering	Facility Offering
Automatic weather Station	Near Field Test Range	Clean Room	EMI/EMC	MIC Facility	Near Field Test Range
AWS and other	Out-Door Test Range	Laser Welding	Halt/Hass Chamber	CNC Drilling	
Hyderology & Meteorology	Multi-Layer Antenna Fabrication	Vibration Table	ESS Chamber	Copper Plating Gold Plating	

Clean room compatible oven for curing epoxy

Temperature controlled hot plate with nitrogen purging facility for eutectic attachment

High-precision bonding machines

Equipped with

ESD measurement equipment

DC probing station for on-chip measurement of DC parameters

...for Assembly, Functional & Environment Testing



Assembly Infrastructure

- 450,000 sq. ft. of research, design, development and manufacturing across 6 units
- 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.
- Class 10000 clean rooms
- Laser Welding
- SMT Lines

Functional Testing

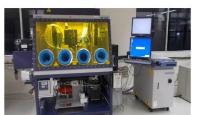
- Near Field Test Range (NFTR)
- Digital Signalling
- Function and pulse generators
- Open air antenna test range
- Spectrum Analyzers, Vector Network Analyzer, Signal generator, RF power meter
- Distortion Analyzer
- ATE-ATS facility

Environment Testing

- EMI/EMC Test facility
- HASS/HALT Chambers
- Environment Chambers (-650C to +1750C; 98% RH)
- Vibration systems
- Weiss Chamber



















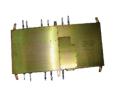




Niche Product Offerings















































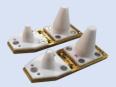






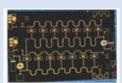
Space

Antenna



MMIC









Strong Presence in SYSTEMS



Multi-function Radar Systems

Instrumentation Radar & Telemetry systems

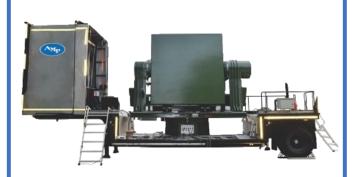
Perimeter Intrusion Detection System

Meteorology Radar Systems

Air Traffic Management **Radar System**



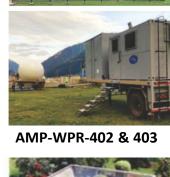
AMP-MFRS-101



AMP-VADR-201/202



AMP-PIDR-301









AMP-PPAR-501



AMP-MFRS-102



AMP-MFRS-103



AMP-PMTR-204



AMP-PIDR-302

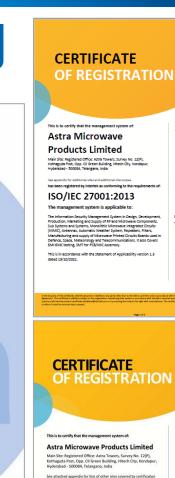
Significant Entry Barriers



Industry Leading Certifications



The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number D15 held by NGA, NGA is a hading name of NGA Certification Linead, Registration No. 00051766. Registered Office: Warrinck House, Houghton Hell Park, Houghton Regis, Curretable Seditorshine (LIS SZX, Linead Kingdom





has been registered by Intertek as conforming to the requirements of:

Monolithic Microwave Integrated Circuits (MMIC) for Defence, Space

ISO 9001:2015

Page 1 of 1

The management system is applicable to:



intertek



CERTIFICATE OF REGISTRATION

This is to certify that the management system of

Main Site: Registered Office: Astra Towers, Survey No.12(P), Kothaguda Post, Opp. CII Green Building, Hitech City, Kondapur Hyderabad - 500084, Telangana, India

has been registered by Intertek as conforming to the requirements of

Design and Supply of Microwave Components, Equipment, Antenna

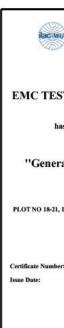
and Monolithic Microwave Integrated Circuits (MMIC) for Defence, Space and Telecommunication Applications.

Astra Microwave

Products Limited

ISO 45001:2018

The management system is applicable to:



intertek

Intertek

Lin Ildon

(M)

intertek



Chief Executive Officer

Awards & Accolades





Testimony of Consistent Performance



LAToT Ceremony for Coastal Surveillance Radar



Excellence in Innovation, Design Technology, R&D 2021



Counter-Drone System LAToT Handing over Ceremony



Award for Excellence in Aerospace Indigenisation-2021



ELCINA EFY Award for Business Excellence



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











Thank You

For more information please contact:



Astra Microwave Products Ltd.

Astra Microwave Products Limited

CIN No: L293091G1991PLC013203

Mr. T. Anjaneyulu, GM – Company Secretary

Email id: secretarial@astramwp.com

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

Strategic Growth Advisors Pvt Ltd.

CIN No: U74140MH2010PTC204285

Shikha Puri / Aakash Mehta

Email id: shikha.puri@sgapl.net / aakash.mehta@sgapl.net

Tel No: +91 9819282743 / +91 98191 78243

