

Date: November 10, 2023

To,
National Stock Exchange of India Limited
Exchange Plaza, C-1, Block G Bandra Kurla
Complex, Bandra (E),
Mumbai-400051

To
BSE Limited
Department of Corporate Services - Listing
Phiroze Jeejeebhoy Towers, Dalal Street,
Mumbai – 400001

SYMBOL: PTCIL

BSE Code: 539006

Dear Sir/Madam,

Sub: Disclosure under Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements), Regulations 2015 – Investor Presentation

Pursuant to Regulation 30(6) read with Part A of Schedule III of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, please find enclosed a copy of the Presentation shared on the Board meeting held on today i.e. November 10, 2023.

This is for your information and records.

Thanking you.

Yours Faithfully,
For **PTC Industries Limited**

Smita Agarwal
Director and CFO
DIN: 00276903

Place: Lucknow

Encl: As above

PTC Industries Limited

TOWARDS PARITY

INVESTOR PRESENTATION – Q2 & H1 FY24
November 2023

Safe Harbor

- This presentation and the following discussion may contain “forward looking statements” by PTC Industries Limited (“PTC” or the Company) that are not historical in nature. These forward-looking statements, which may include statements relating to future results of operations, financial condition, business prospects, plans and objectives, are based on the current beliefs, assumptions, expectations, estimates, and projections of the management of PTC about the business, industry and markets in which PTC operates.
- These statements are not guarantees of future performance, and are subject to known and unknown risks, uncertainties, and other factors, some of which are beyond PTC’s control and difficult to predict, that could cause actual results, performance or achievements to differ materially from those in the forward-looking statements.
- Such statements are not, and should not be construed, as a representation as to future performance or achievements of PTC. In particular, such statements should not be regarded as a projection of future performance of PTC. It should be noted that the actual performance or achievements of PTC may vary significantly from such statements.



Company Overview



For the detailed Investor Presentation, please visit the Link below

[*PTCIL Investor Presentation June 2023*](#)

It's the proficient team which are
the strong pillar of the company



Sachin Agarwal

Chairman & MD

**MBA in Operations –
University of Tulsa,
Oklahoma & M. Sc in
Finance - Boston College,
Massachusetts**

**Industry Experience
of 25+ years**

**Responsible for
new technologies
& continuous
R&D efforts**



Mr. Priya Ranjan Agarwal
Director, Marketing



Mr. Alok Agarwal
Director, Quality & Technical



James Collins
Head Technology & Innovation



Ms. Smita Agarwal
Director & CFO



Stephane Bras
Head of Sales - Europe



Ashok Kumar Shukla
Executive Director

Our Core Values

Our values define who we are, how we operate, and where we're headed. Our values are defined by the word ASPIRE, which stands for :



Agility

responding and adapting to changes quickly; learning new skills and responding to new requirements; executing work faster

Sustainability

taking responsibility for longevity; creating lasting value for our stakeholders; safeguarding the environment

Selflessness

seeking what is best for PTC; having no ego when searching for the best ideas; helping colleagues; sharing information openly and proactively.

Passion

inspiring others with own thirst for excellence; caring intensely about PTC's success; being tenacious

Prudence

making wise decisions; getting beyond treating symptoms and identifying root causes; thinking strategically.

Integrity

being known for honesty, candour, and directness; being straightforward, being quick to admit mistakes

Impact

accomplishing important work ; demonstrating consistently strong and reliable performance; focusing on results

Innovation

re-conceptualizing issues to discover practical solutions to difficult problems; challenging prevailing assumptions and suggesting better approaches; creating new ideas; staying nimble; minimizing complexity and simplifying.

Respect

treating people with respect independent of their status or disagreement; listening well to understand better; remaining calm in stressful situations; understanding and being considerate of the needs of others.

Endurance

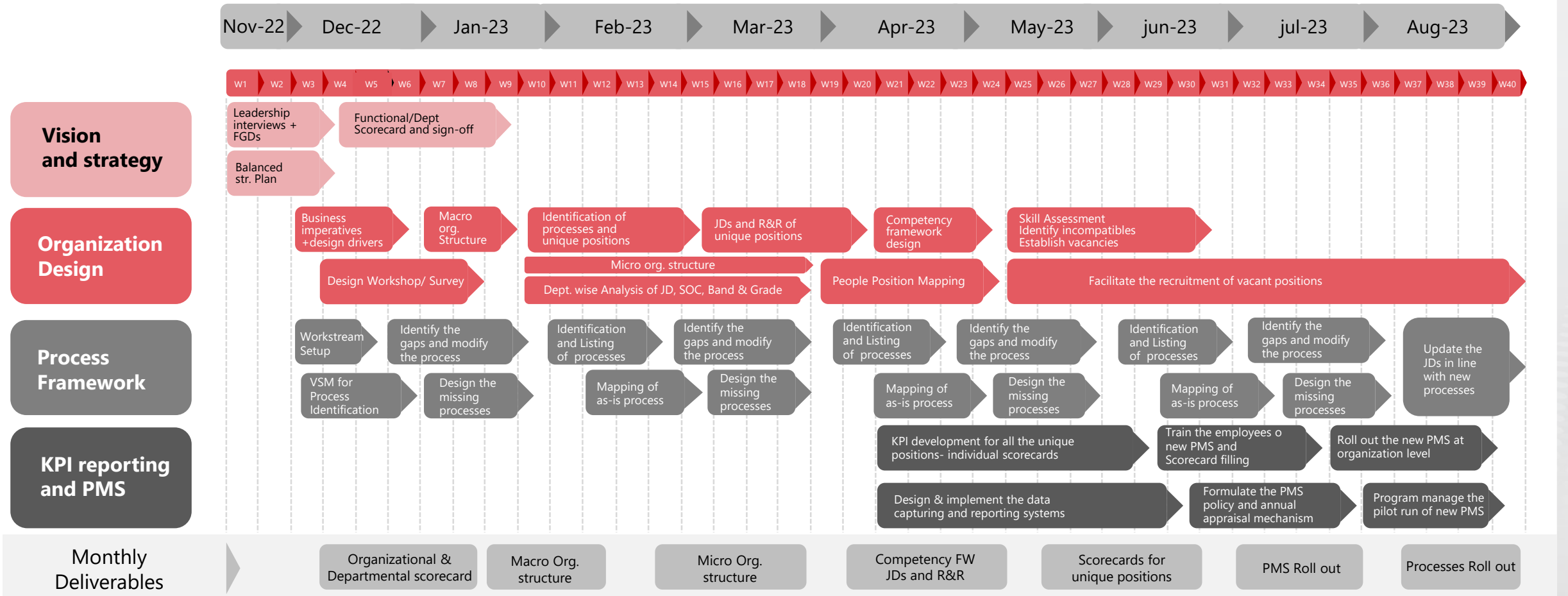
rejecting the temptation to give up when things get tough; staying focused on executing work.

Aspire embodies in itself the path to our success and the aspiration to get there.

Our focus on **Human Resource Development**

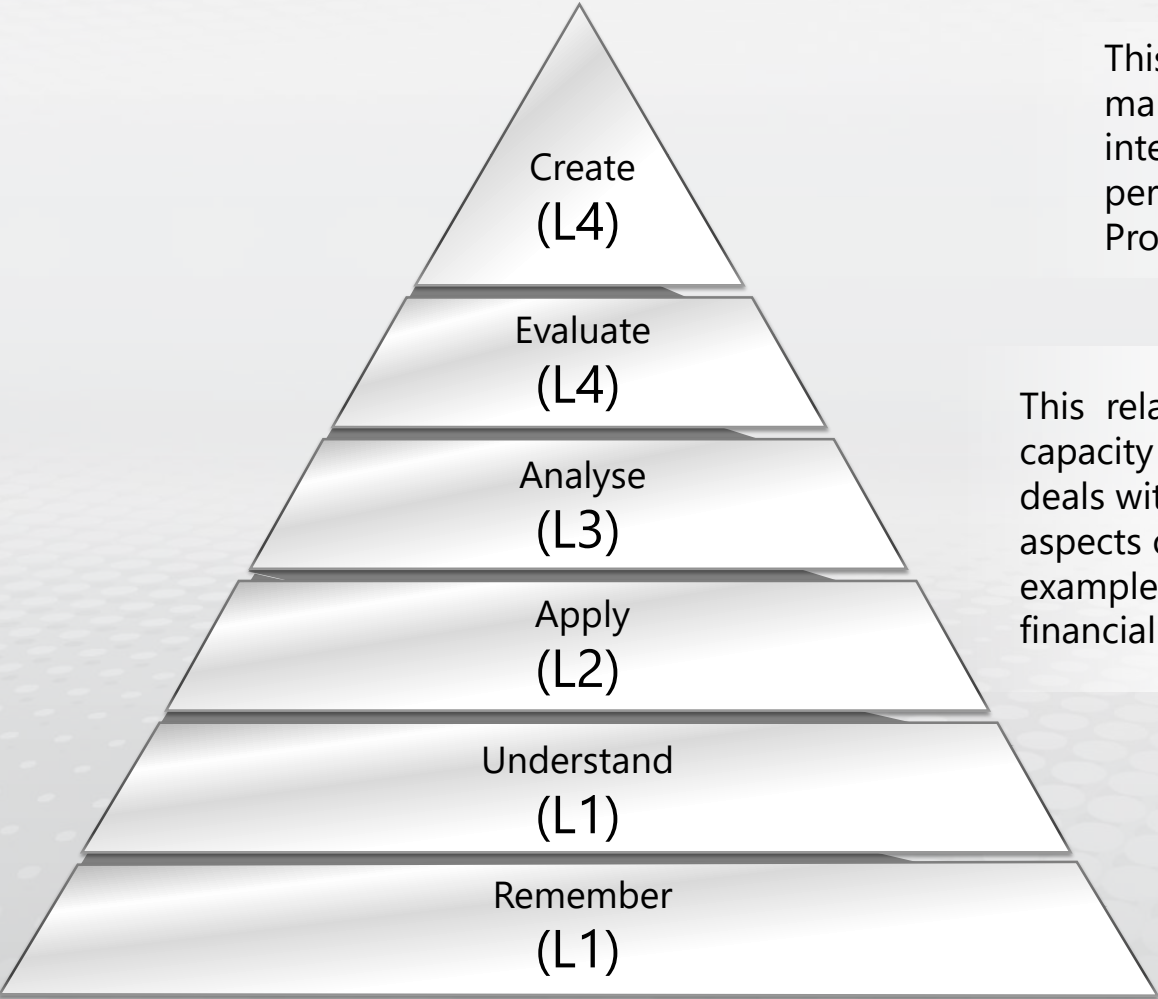
Comprehensive HR Transformation Scope with detailed timeline and project plan.

High Level Project Timeline



Our focus on Human Resource Development

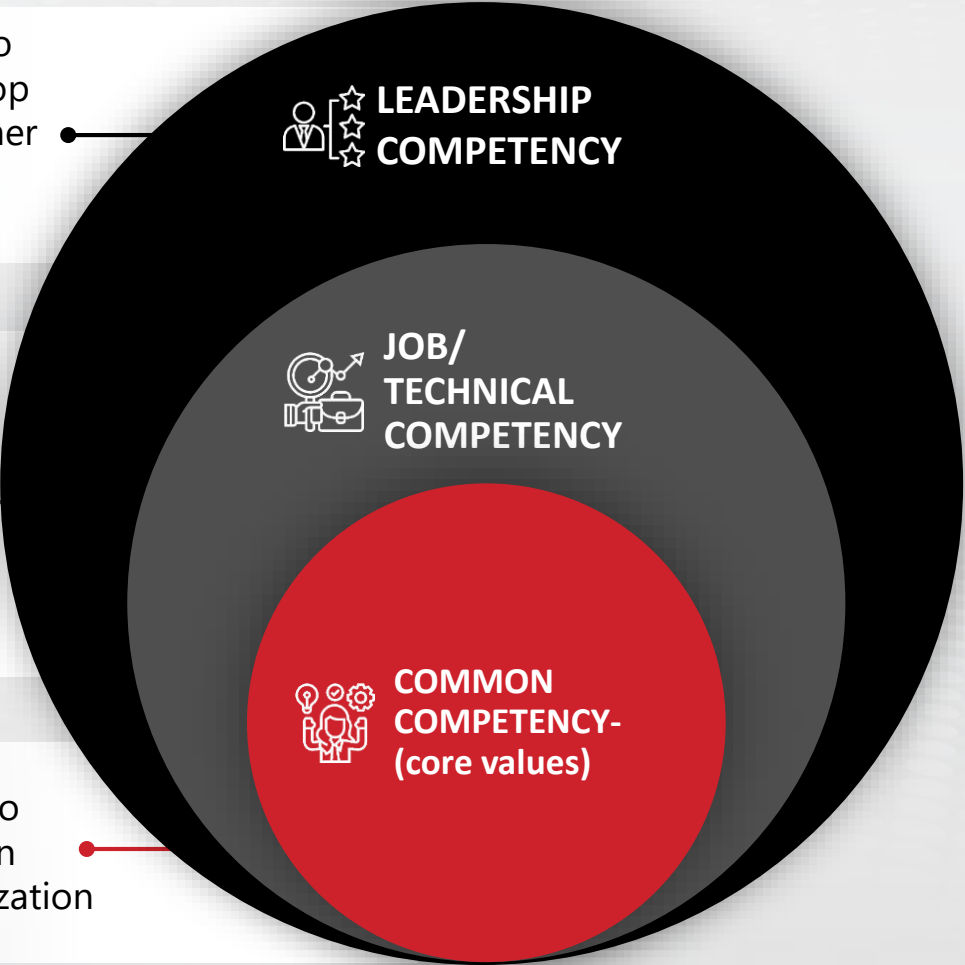
Training and Competency Development Framework.



This relates to ability to manage job and develop interaction with the other persons. For example- Problem solving.

This relates to functional capacity of work. It mainly deals with the technical aspects of the job. For example- market research, financial analysis etc.

Common to everyone in the organization



Our recognitions and rewards



Raksha Mantri's Award at #DefExpo2022

PO Handover by SAFRAN AIRCRAFT ENGINES at #AeroIndia 2023



MoU Signing with DASSAULT AVIATION at #AeroIndia 2023

Aerolloy exhibited at Paris Air Show 2023



54th INTERNATIONAL PARIS AIR SHOW LE BOURGET JUNE 19-25, 2023

54^e SALON INTERNATIONAL DE L'AÉRONAUTIQUE 6 DE L'ESPACE PARIS - LE BOURGET 19-25, JUIN 2023

BAE Systems, PTC sign MoU for making M777 Howitzer parts

The first sub-systems will be made by end of 2022



(L-R) Ravi Mirgulkar, MS, MBA, MD at BAE Systems, India, Bangalore; Sri Lanka; Sachin Agarwal, CEO, PTC Industries; Paul West, India Industrialisation director, BAE Systems and Bharat Sharma, Commissioning IWT Lead at BAE Systems

BAE Systems & PTC Industries have signed an agreement to manufacture titanium castings for the Indian 155mm M777 ultra-lightweight Howitzer at PTC's production facility in Lucknow.

The agreement aims to produce the complete lightweight titanium castings, including the lightly controlled fabrication process and ensuring the castings can be manufactured in any future production of the M777 Howitzers for India. The first sub-systems will be produced by the end of 2022, and there is a plan to progress manufacture of all three of the major structures (Cradle, Cradle and Lower Carriage) that form

the basis of the gun. Indian suppliers which participate in the M777 programme can earn a role in the overall BAE Systems global supply chain through their performance.

"The production process at PTC Industries is being developed and qualified to deliver the long-term support for the 145 M777s we are delivering to India," said Duncan Stevenson, the general manager of BAE Systems Weapon Systems UK, which manages the manufacture and assembly of the M777 light-weight Howitzers. "This agreement will allow BAE Systems and PTC Industries to jointly provide major structures to support the spare and repair programme required to keep the units available for the Indian Army. It also ensures that the overall 'Make in India' content of the IWB is above 60%, which will allow the Government of India to procure any future platforms under a 'Make in India' acquisition requirement."

BAE Systems also has a 52-Calibre 155mm barrel for the QJ1, which it is willing to manufacture in India, further expanding Indian artillery capability from this battle-proven system. This would make India the first customer to have a 155mm 52-calibre platform under 5,000kg in weight.

UP to excel in aerospace, defence sectors: Rajnath

Opens First Pvt Manufacturing Unit In Corridor



Times News Network

Lucknow: Defence minister Rajnath Singh said on Saturday that more private companies will soon be investing in Lucknow and other defence corridors, which will make a mark in defence and aerospace sector manufacturing.

After inaugurating the first private defence manufacturing facility in UP Defence Industrial Corridor, Singh said, "More companies will invest in Lucknow and UP and the state will make a mark in defence and aerospace sector manufacturing."

"Realise India's CMV (Critical Mission Vehicle) and other important systems and industry investments," he said. "I believe in private companies."

"Adoption of technology is a must for being successful in today's competitive environment. PTC Industries' specialised metal manufacturing facility will reduce the nation's dependence on imports and help in building Atmanirbhar Bharat," he added.

The facility run by Aerolloy Technologies, a subsidiary of PTC Industries, will manufacture parts for aircraft and helicopter engines, drums, submergence ultra-light aircraft parts, space launch vehicles and strategy systems. Singh emphasized the need for continuous modernisation of "armed forces in the rapidly changing global security environment."

"The Indian defence industry has the potential to develop quality and cost-effective equipment, which will help national security and can be exported," he said.

Reaffirming the resolve of "Make in India and Make for the World," Singh stated the government's measures for self-reliance.

Certification



Certifications



**PTC GROUP HAVE AN ON-SITE
NABL / ISO17025 ACCREDITED
TESTING LABORATORY**

NADCAP STATUS



**Casting Weld
Correction**

Approval awarded June 2023



**Chemical
Processing**

Under approval - 2023



**Thermal Treatment
(HIP)**

Under approval – 2023



**NDT
(FPI, X-ray)**

Under approval – 2023



**Thermal Treatment
(VacHT&Braze)**

Plant Realisation - 2024



**ISO14001 & ISO45001
(OHSMS)**

Under Implementation
– Nov 2023

Discipline Status

Technology driven opportunities



1

Global Supply Chain Disruption

Opens a huge opportunity for PTC in Industrial as well as Aerospace and Defence Sector

Building cutting edge Technology

2

Russia Ukraine War Implications

Have opened gates for supply of Titanium
Recently acquired Technologies
Vacuum Arc Remelter
Electron Beam Cold Hearth
Remelting furnace
Pioneer to bring this technology to India

Widening Offerings

3

Defence Spending and Indigenisation in India is on rise

PTC's vision of PARITY gives opportunity. Investing in the UP Defence Industrial Corridor to develop cutting-edge technology

Proven track record

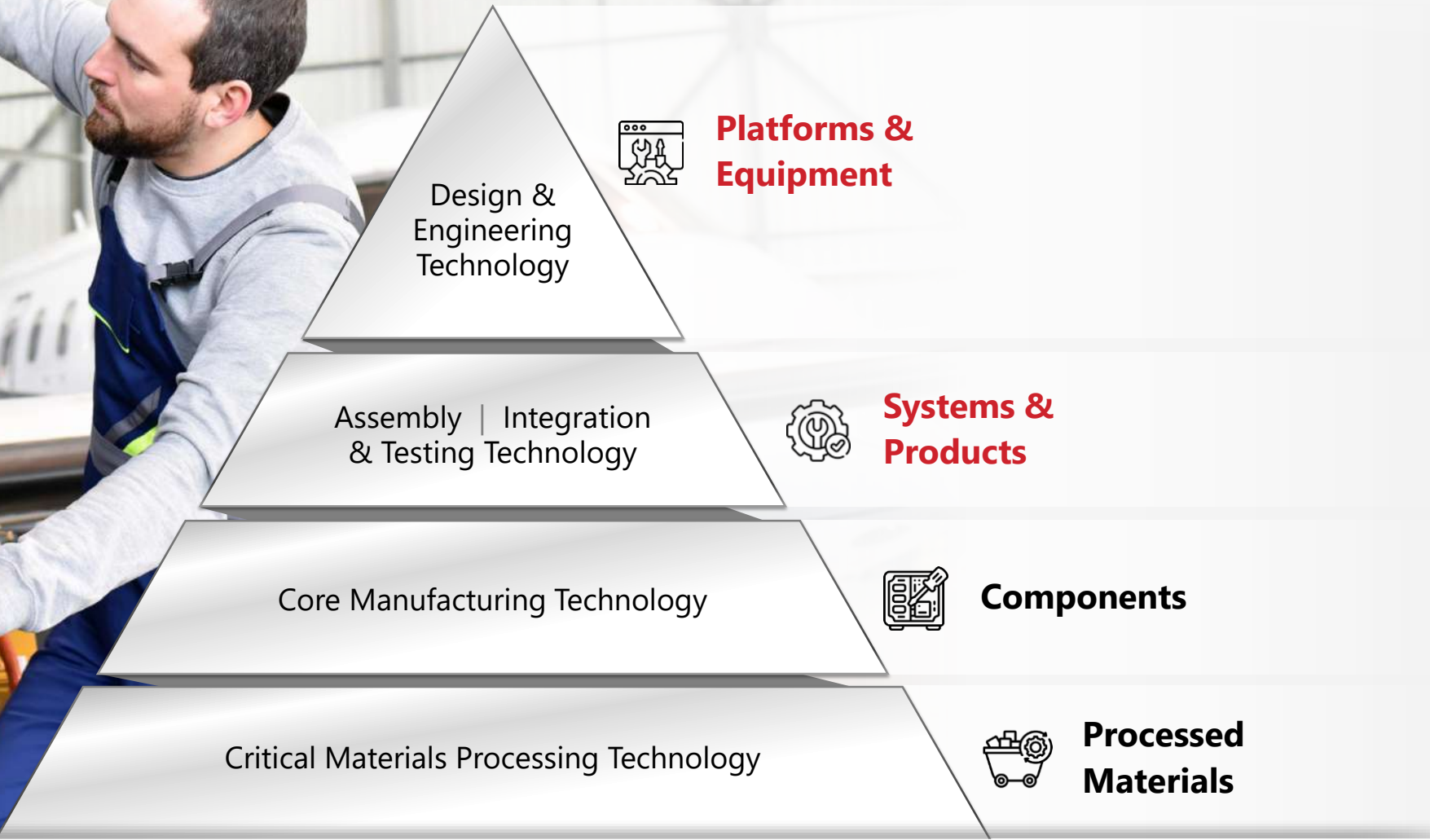
Towards Parity



इहैव तैर्जितः सर्गो येषां साम्ये स्थितं मनः ।
निर्दोषं हि समं ब्रह्म तस्माद् ब्रह्मणि ते स्थिताः

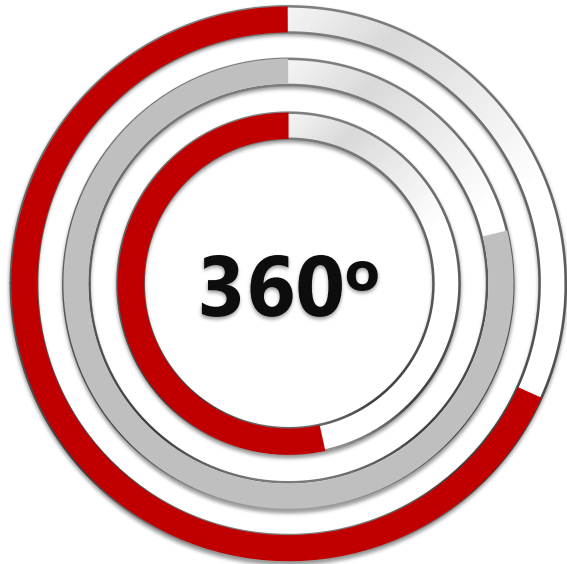
Therefore, It Is Our Dharma To Work Towards Building Equality In Respect of
**Capability, Technology,
Skill, Workmanship, Talent,
Knowledge, Quality,
Productivity, Efficiency, & Sustainability**
in the country to allow us to become a
nation that is at par with the world.

Technology Pyramid



Platform Independent Core Manufacturing Technologies

Established Capabilities to Cater to entire Spectrum of A&D Sector



Civil Aviation

Torque tubes
airframe structural
engine mounts
turbine frames
engine liners
swirlers and injectors



Air Defence

Airframe Structures
Intermediate casings
Bearing Housings
Re-fuelling nozzles
Turbine oil-tanks
Engine Gearboxes



Land Defence

Suspension arms
Muzzle Brakes
Lightweight artillery structures
Armour Protection



Naval Defence

Pump components
valves
on-line fittings
radar structures
propellers and propulsion components



Space

Propellant tanks
Propulsion nozzles
bulkheads
liquid fuel pump casings and impellers
lightweight structures



Aero Engines

Turbine frames
blades, buckets and vanes
bearing housings
inlet and outlet structures



Strategic Systems

Propellant tanks
Propulsion nozzles
bulkheads
Pressure bottles
lightweight structural

PTC & Aerolloy Technology Verticals



Industrial Castings

Replicast,
Rapidcast,
Investment
Casting



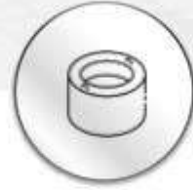
Machining & Assembly

CNC 5-Axis
Machines;
Assembly shop



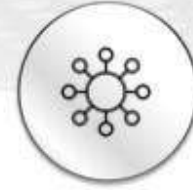
Titanium Castings

Investment
Casting;
VAR; HIP



Super Alloy Castings

Investment
Casting;
VIM; HIP



Controlled Microstructure

Investment
Casting; SX,
DS, EQ



Titanium Alloy Mill

VAR,
EBCHR, PACHR;
Forging



Super Alloy Mill

Masteralloy
VIM, VAR;
Forging

INDUSTRIAL CASTINGS & MACHINING



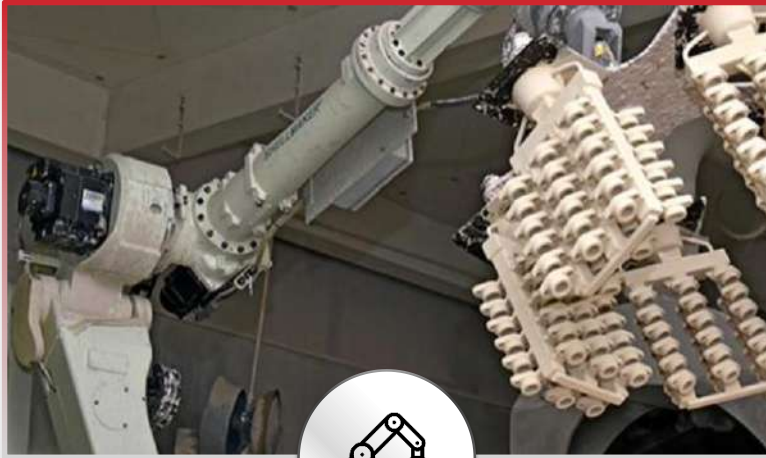
AEROSPACE CASTINGS GROUP



AEROSPACE MATERIALS GROUP



Technology – Rapidcast, Replicast, Investment Casting



RAPIDCAST

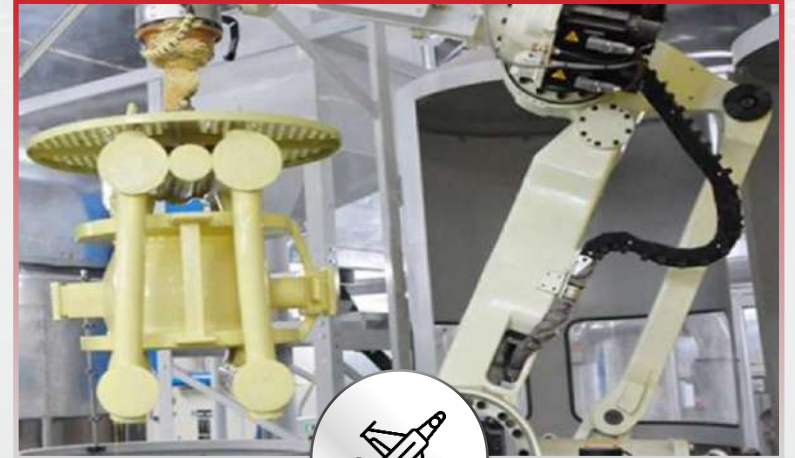
Quality – Value – Speed
up to **5,000 kgs** single piece

7-Axis CNC machining robots
to machine patterns



REPLICAST

Near net shape casting solutions
using ceramic shells with weight
range up to **2,500 kg**



INVESTMENT CASTING

Microstructure controlled castings
(Single Crystals and Directionally
Solidified) for Aeroengines

Technology – Ti Cast, Controlled Microstructure, ForgeCast



TICAST

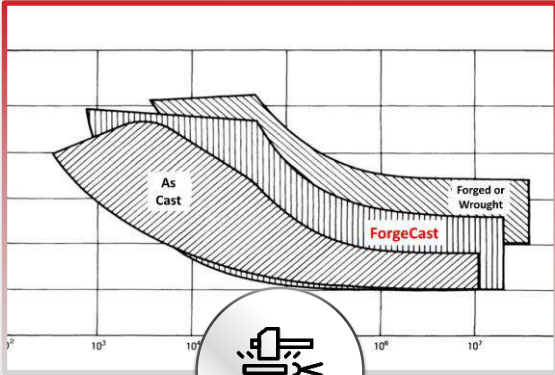
Vacuum melt casting of Reactive alloys

Investment casting, PrintCast, Replicast



Controlled Micro-Structure

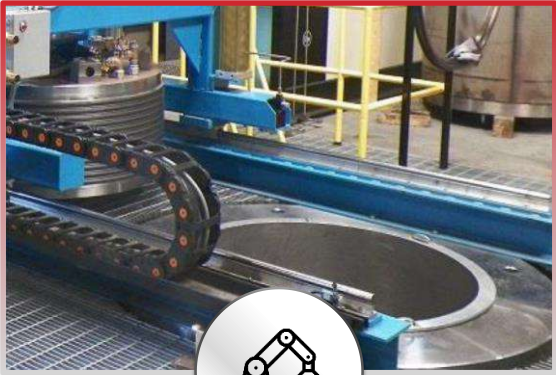
Technology helps to control both the cast microstructure and defect formation



FORGECAST

Where castings and forgings converge

Near net shape castings with forging properties



Hot Isostatic Press (HIP)

Used to eliminate pores in metal components

A must technology for critical components like Aerospace

New Aerospace **Castings Facility**



DIC Campus – **Aerospace Castings**

New Aerospace Castings facility of 15,000 sqm at the new 50 acre land in Lucknow in the UP Defence Industrial Corridor

Aerospace Castings Group – Future Capability & Additions

Large Titanium Casting VAR:

Make: ALD;
400 kgs Liquid Metal



Large Super Alloy Casting VIM:

Make: Consarc
1000 kgs Liquid Metal
Max Dim: 1800mm



Robotic Shelling System:

Make: VA Tech; 1 Robot System;
Max Shell Dim: 600mm (dia)X
800mm (height)



Dewaxing AutoClave:

1200 mm (dia) X
1500mm (depth)



Flashfire Furnace:

1000X1000X1200 mm
(Pacific Kiln)



Other major Equipment available



Vacuum Heat Treatment Furnace:

1500 kgs Total Loading Weight



Hot Isostatic Press: Max Temp:

1350 deg C; Max Pressure
137 Mpa; 300 mm (dia) X
900 mm (length)



Dimension Inspection:

1) CMM: Zeiss :
1000X1000X800 mm;
2) GOM – 3D Scanning



Radiography (X Ray):

Digital; Max thickness: 60 mm



Wax Injection Press:

1) 6 Tonne, 1000 cc,
350X350X350 mm;
2) 35 Tonne, 6500 cc,
750X750X750 mm



AEROSPACE MATERIALS GROUP

UPDIC Campus – **Aerospace Materials Mill**

Future Capability & Additions

Titanium and Super Alloy Mill – Ingots, Billets,
Rods, Bars, Slabs, Plates

New Aerospace Materials Mill

Acquired - Electron Beam Cold Hearth Remelting (EBCHR) furnace and Vacuum Arc Remelter (VAR) through its wholly owned subsidiary "Aerolloy Technologies Limited (ATL)"

Manufacturing Titanium (Ti) Ingots

One of the few global players to have capabilities to manufacture Titanium Ingots

Manufacture Ti Ingots from Recycled / Scrap Titanium

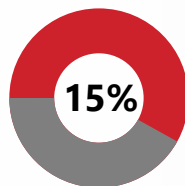
Titanium alloy ingots manufactured by recycling & remelting of scrap have equal acceptability compared to ingots manufactured using Titanium sponge (from ore)

Capacity

The EBCHR furnace will have an installed capacity of 5,000 tonnes p.a. and VAR Furnace will have capacity of 1,500 tonnes p.a. for manufacturing Titanium ingots.

Recent Supply Chain Disruption

Global supply chain, gives strategic advantage of having a facility to manufacture titanium alloy ingots with up to 80% of readily available & cost-effective Titanium scrap is a highly profitable proposition for PTC



PTC will possess a market share of over 15% of the world recycled Titanium Material production



World's largest single site Titanium recycling facility in India



Phase 1:
Investment
~Rs. 150
crores



At full capacity:
Potential Revenue multiple of 10-15x with robust margins

Technology – Titanium & Super Alloy material manufacturing

Vacuum Arc Remelter (VAR)

A secondary melting process for the production of metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications

Electron Beam Cold Hearth Remelting (EBCHR)

This process is of great importance for the processing and recycling of scrap and waste of reactive metals, especially Titanium

Plasma Arc Cold Hearth Melting (PAM)

Used for melting and remelting of Alloys (e.g. Titanium Alloys) which contain larger amounts of alloying elements with high vapor pressure that would evaporate under deep vacuum conditions

Vacuum Induction Melting (VIM)

A primary melting process for the production of Super Alloy metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications

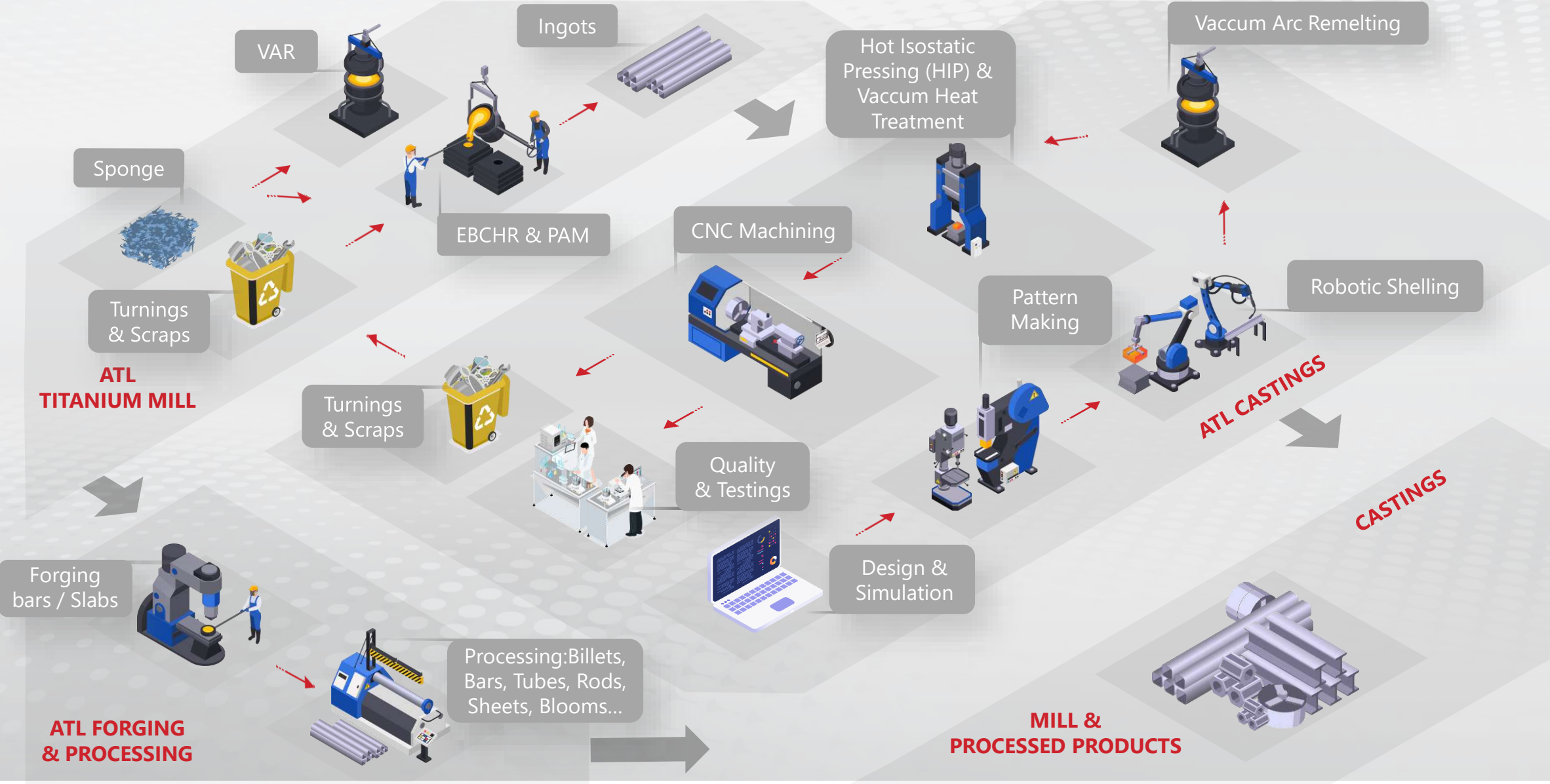


Metals Recycling



Shows that **GreenTitanium[®]** will avoid **26.4 tonnes** CO₂ per tonne of Titanium produced by recycling compared to traditional methods. The volume of emissions avoided is expected to increase in the future as operations reach their nominal production rate. Using this benchmark at full capacity, Titanium ingots produced by PTC's newly acquired EBCHR further would reduce **132,000 tonnes** of CO₂ emissions.

Sustainability





Current & Future Renewable Energy Sources



PTC Industries and Aerolloy is committed to comply to Carbon footprint reduction and GHG protocols, in accordance with International standards, meeting the Paris Agreement targets

CURRENT



COP21- CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

750kW Roof Top Solar (AMTC)

750kW Wind Turbine (Mehsana)

FUTURE



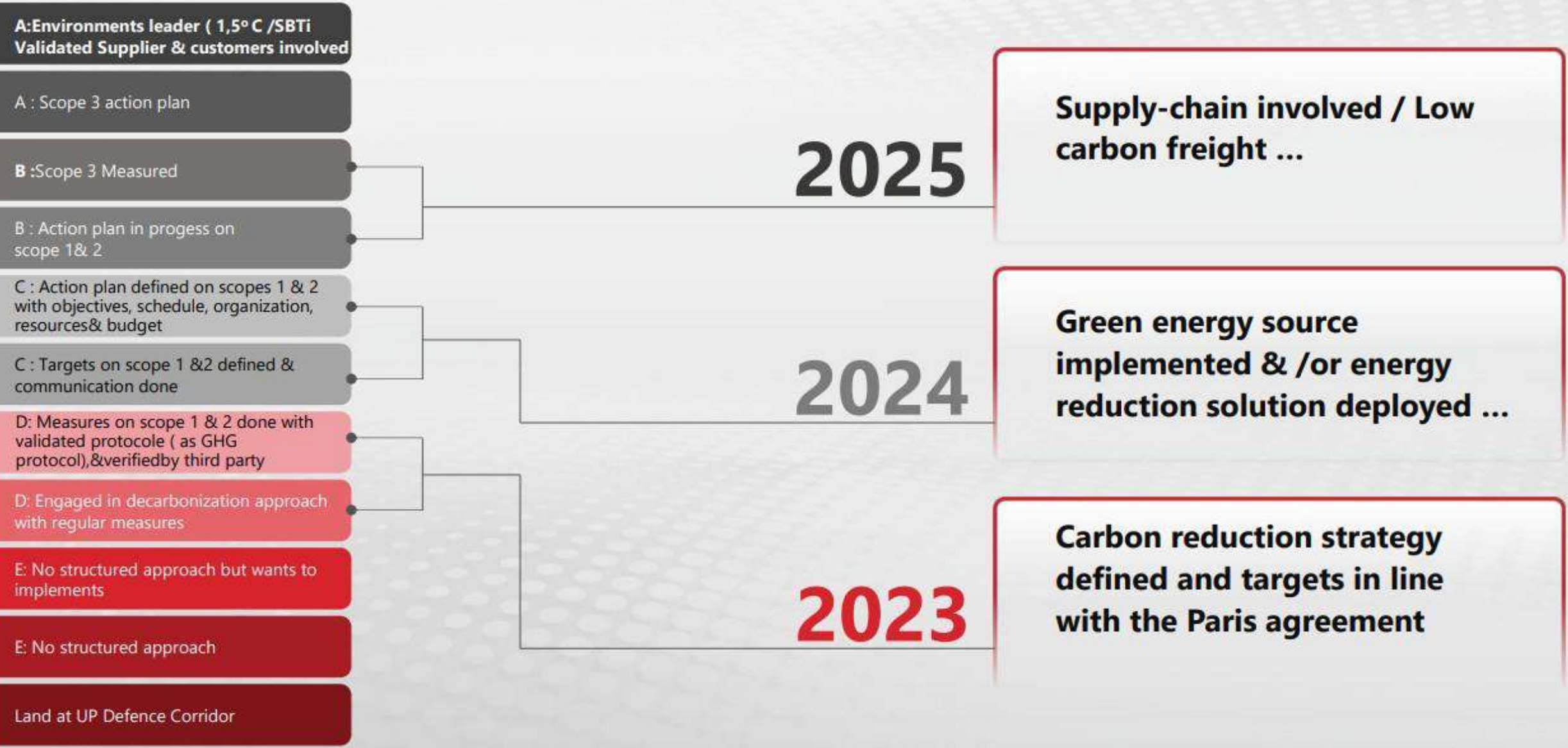
SCIENCE
BASED
TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

10-12MW Solar Plant
(Aerolloy Metals)

>50% Energy consumption
from renewable sources



Roadmap for Carbon Footprint



Recent Milestones

Land at UP Defence Corridor

Allotment of 50 Acres of land next to Brahmos facility, by UPEIDA, in Lucknow node of the UP Defence Industrial Corridor

Fabrication and Assembly Line

Fabrication and Assembly Line for BAE Systems

Acquisition of the Vacuum Arc Remelter

This Facility is critical for manufacturing Titanium Ingots from Sponge (ore) with a total capacity of 1,500 tonnes p.a.

Acquisition of the EBCHR* Furnace

Recycling & Remelting Furnace for manufacturing of Titanium Alloy Ingots from recycled Titanium 5,000 TPA

Acquisition of the PAM

Acquisition of PAM

Agreement with BAE Systems

To produce titanium castings for 155mm Ultra-Lightweight Howitzer in India

Technological Tie-up and MoU

Midhani: Manufacturing of Titanium alloy pipes & tubes, plates & sheets, Fabrication of crucial parts, etc
 Bharat Dynamics: Design, Develop & Manufacture Aero Engines for Missiles, UAVs, Loitering Munitions, etc
 Safran AE: Manufacturing & supply of Titanium & Super Alloy castings & components for LEAP Engines, etc
 DRDO Contract: Design, Develop & Manufacture Aero Engines for Missiles, UAVs, Loitering Munitions, etc

MoU with HAL

Indigenisation of aviation-grade Raw Materials, Components, Sub-systems, and Systems of Aero-Engines of Russian-origin aircraft

Order from Safran Engines

Received an order from Safran Aircraft Engines ("SAE"), for the development and supply of Titanium cast components for Aircraft Engines

MoU with Dassault Aviation and Approval from Israel Aerospace Industries (IAI)

MOU with Dassault Aviation, a major player in the global aerospace industry & IAI granted approval as a supplier of cast components for Aerospace applications

Built Capabilities

Marquee Orders & MoUs

2022

Jul

Aug

Sep

Oct

Nov

Dec

2023

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

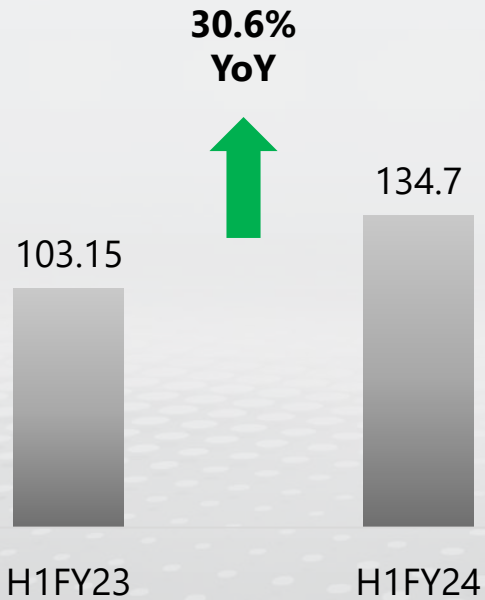


Q2 & H1 FY24: Result Highlights

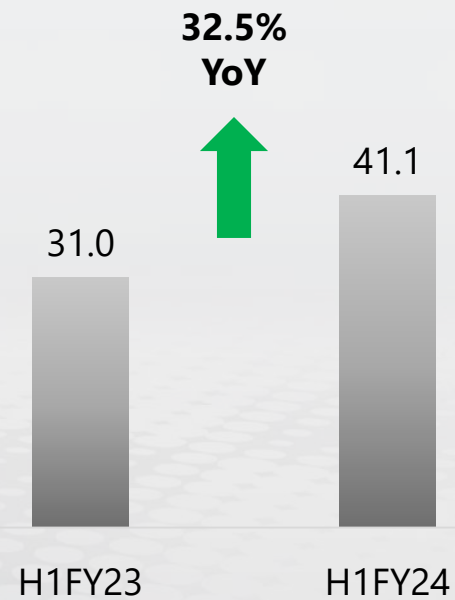
H1 FY24 Consolidated Highlights

In Rs Crores

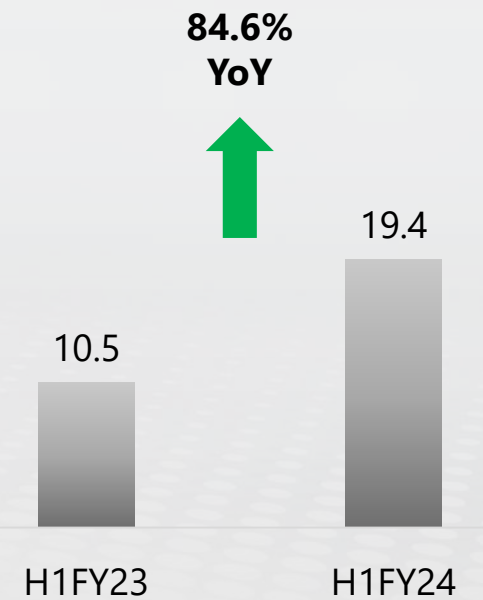
Total Income









EBITDA



PAT



Q2 & H1 FY24 Consolidated Highlights

Particulars INR Crores	Q2FY24	Q2FY23	YoY	H1FY24	H1FY23	YoY
 Total Income	60.3	56.0	7.7%	134.7	103.2	30.6%
 EBITDA	18.5	19.0	-3.4%	41.1	31.0	32.5%
 EBITDA Margin%	30.6%	34.0%	(340 bps)	30.5%	30.1%	40 bps
 Profit Before Tax	10.5	10.3	1.9%	25.4	14.4	76.5%
 Profit After Tax	8.1	7.6	6.4%	19.4	10.5	84.2%
 PAT Margin%	13.5%	13.7%	(20 bps)	14.4%	10.2%	420 bps

Management Remarks



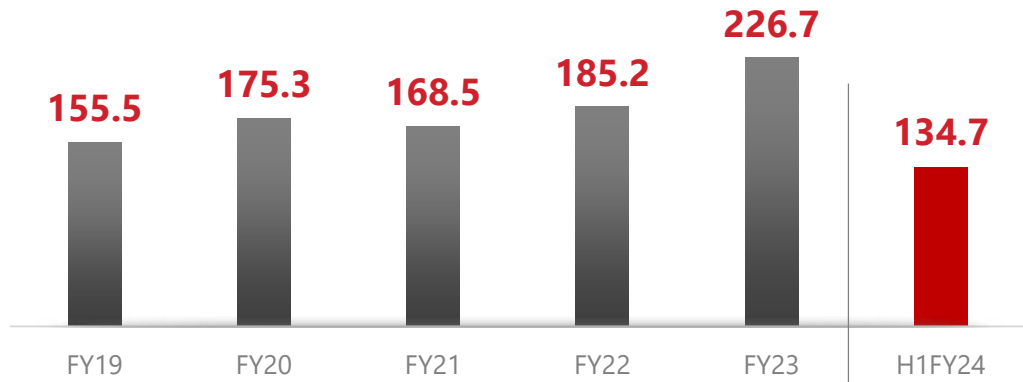
Mr. Sachin Agarwal, Chairman & Managing Director: *"PTC Industries is committed to its objective of achieving Parity in the country for a wide range of aerospace and defence applications. Through value-driven practices, strategic partnerships, technological advancements, and participation in prestigious events, we are making significant progress towards this goal. Our state-of-the-art manufacturing facility being set up in the Lucknow node of the Uttar Pradesh Defence Industrial Corridor will create a unique capacity and capability for aerospace and defence manufacturing in India. While we continue to embrace challenges, uphold our core values, we are also deeply grateful to our shareholders for their unwavering support."*

Sachin Agarwal

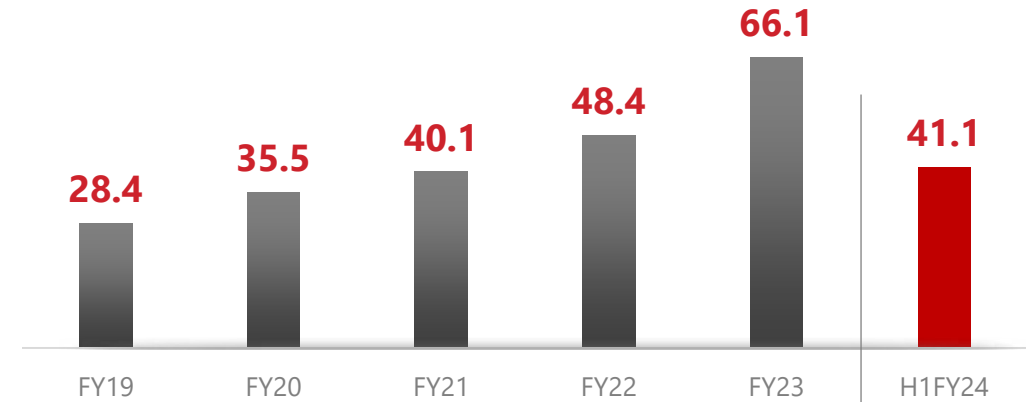
Chairman & MD

Key Financial Trends

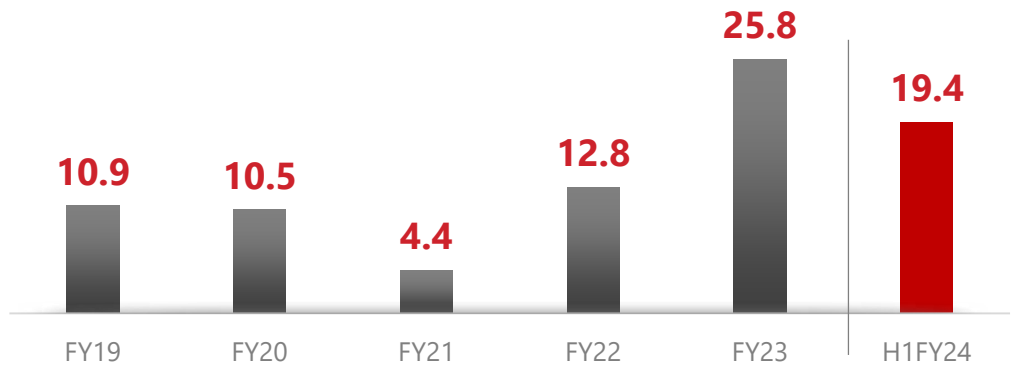
Total Income



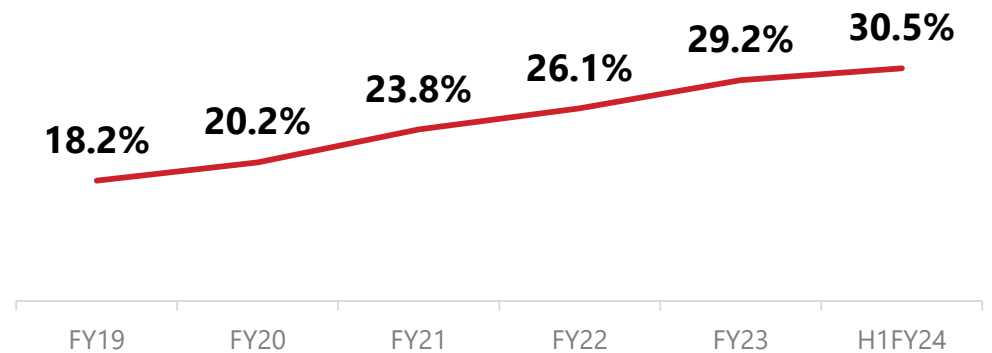
EBITDA



PAT



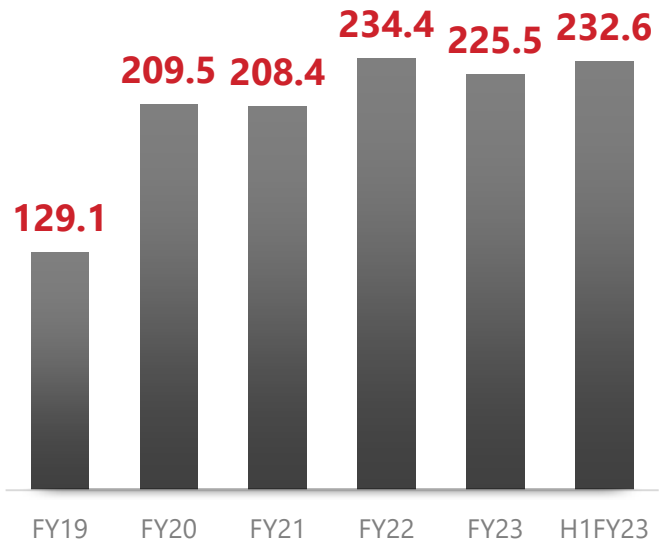
EBITDA Margin %



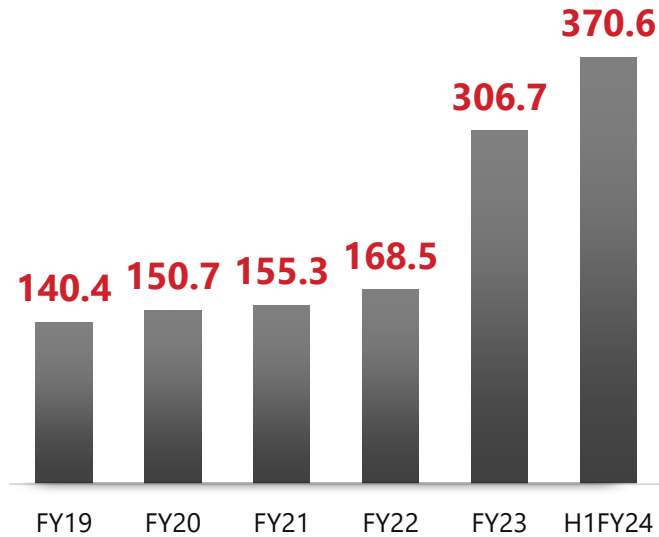
In Rs. Cr

Key Financial Trends

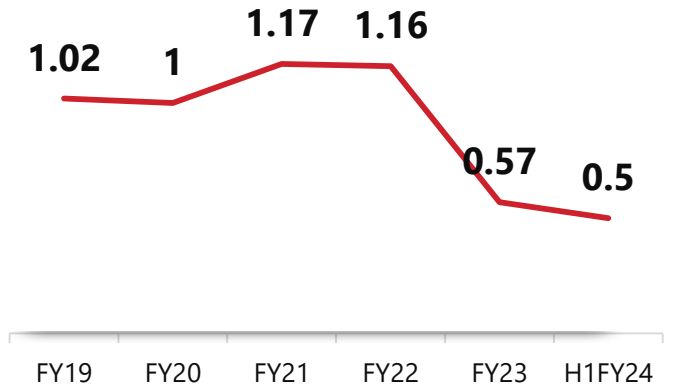
Gross Property, Plant & Equipment



Total Equity



Debt to Equity (x)



In Rs. Cr

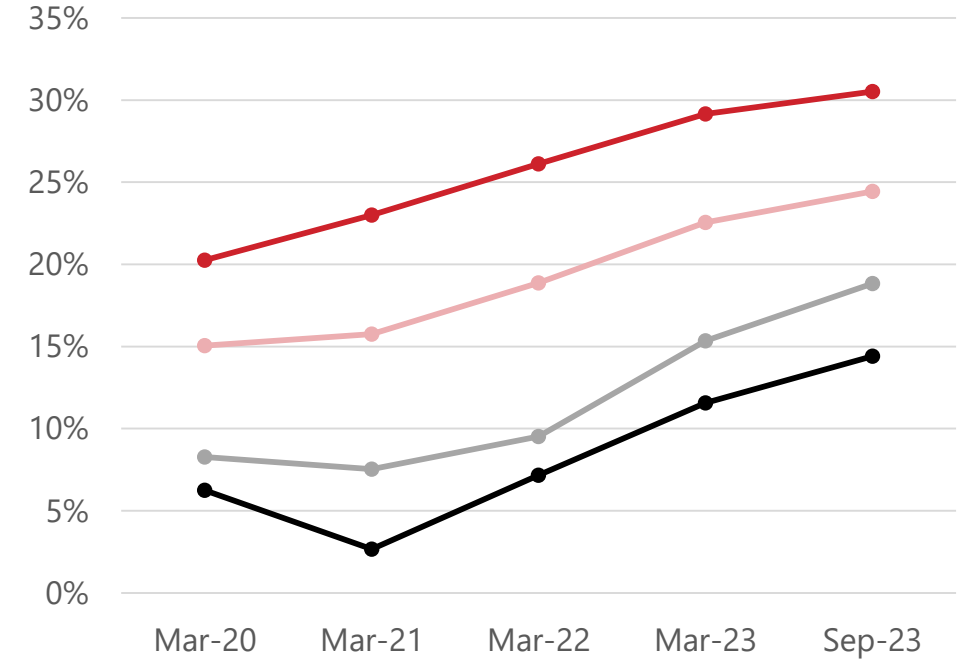
Accounting Ratios

Particulars	As at March 31, 2020	As at March 31, 2021	As at March 31, 2022	As at March 31, 2023	As at Sep 30, 2023
Profitability Ratios					
EBITDA Margin	20.25%	23.00%	26.12%	29.16%	30.52%
Operating Profit Margin [EBIT]	15.04%	15.75%	18.86%	22.55%	24.44%
PBT Margin	8.27%	7.53%	9.51%	15.35%	18.83%
PAT Margin	6.25%	2.67%	7.16%	11.56%	14.41%
Return on Equity	6.97%	2.80%	7.60%	8.26%	7.94%*

*Calculated on TTM basis



Profitability Ratios







● EBITDA Margin

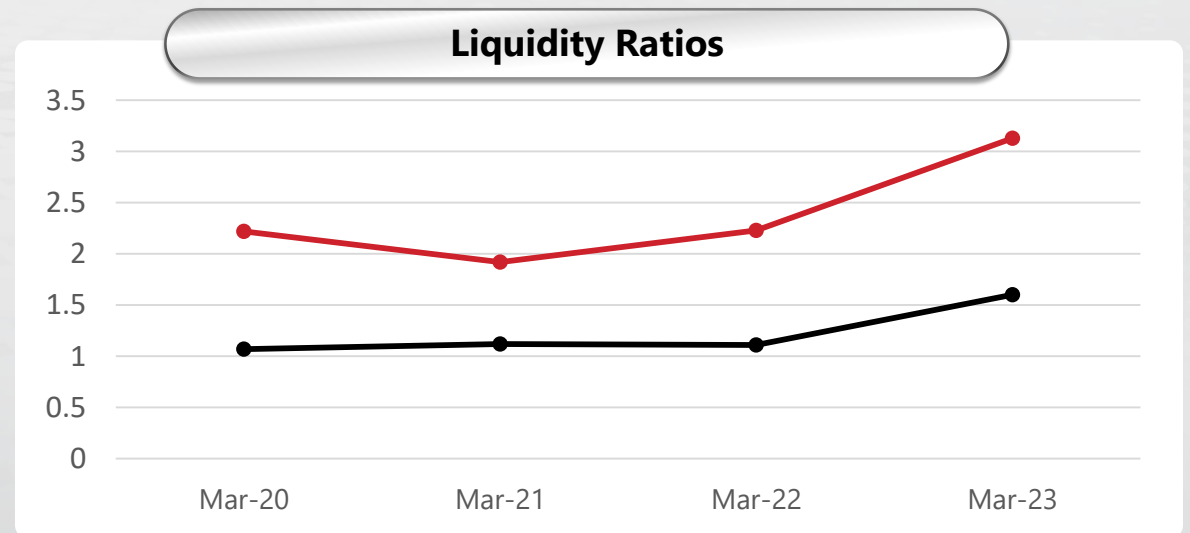
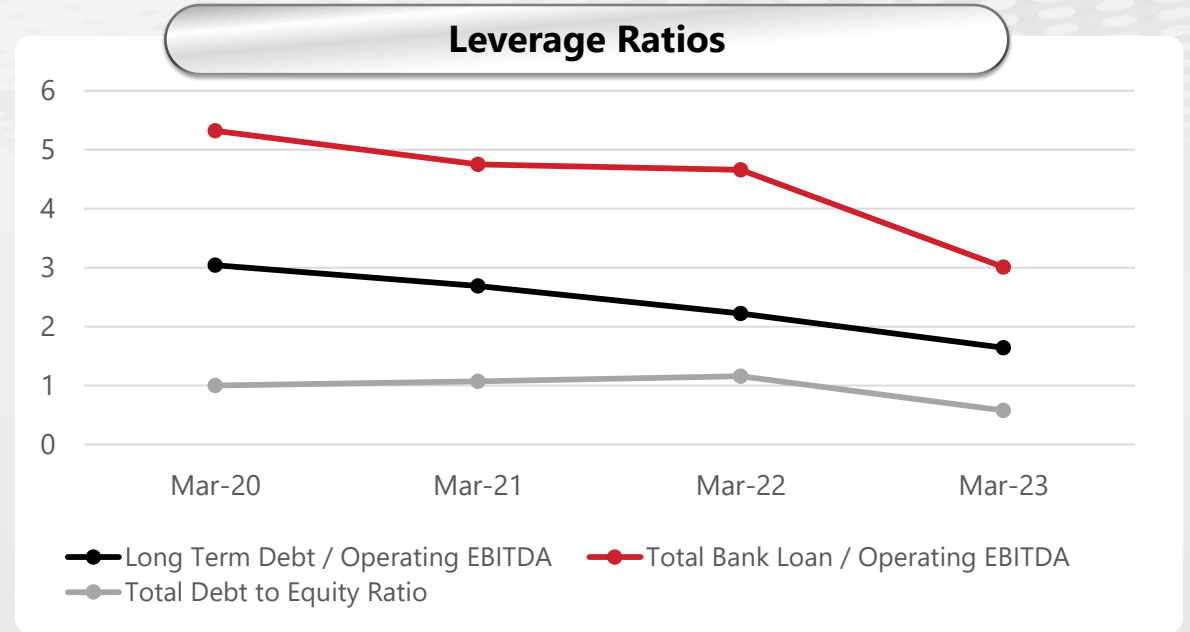
● Operating Profit Margin [EBIT]

● PBT Margin

● PAT Margin

Accounting Ratios

Particulars)	As at March 31, 2020	As at March 31, 2021	As at March 31, 2022	As at March 31, 2023
Leverage Ratios				
Long Term Debt / Operating EBITDA	3.04	2.69	2.22	1.64
 Total Bank Loan / Operating EBITDA	5.32	4.75	4.66	3.01
 Total Debt to Equity Ratio	1.00	1.07	1.16	0.58
Liquidity Ratios				
 Current Ratio	1.07	1.12	1.11	1.60
 Interest Service Coverage Ratio (ISCR)	2.22	1.92	2.23	3.13



Update on Status of Ongoing **CAPEX**

The company has acquired necessary equipment for its aerospace and defence material manufacturing facility. This includes a Vacuum Arc Remelter, an Electron Beam Cold Hearth Remelting furnace, a Plasma Arc Melting furnace, and a Vacuum Induction Melting furnace. These enhance capabilities in producing critical materials like Titanium Alloys and Nickel/Cobalt Superalloys

Particulars	Status
Foundation Completion:	The foundation work for the Vacuum Arc Remelting (VAR), Plasma Arc Melting (PAM) and other associated equipment has been completed. The foundation work for Electron Beam Cold Hearth Remelting (EBCHR) is under progress.
PEB Structure Foundation:	The foundation work of the Pre-Engineered Building (PEB) structure has been completed.
Arrival of Equipment:	The VAR furnace, EBCHR furnace, Plasma Arc Melting (PAM) furnace, and Sponge Press have all safely arrived on site.



Successful Fund Raise to **Fund the Expansion**



Mode of Fund Raise

Rights Issue

The company offered **78,58,594** Fully Paid-Up Equity Shares for cash at a price of **Rs 10/-** each, totalling **Rs. 7.9 crores**, and the transaction has been successfully completed

Preferential Issue

Issue and allotment of **2,89,600** Equity Shares and **6,30,170** Fully Convertible Warrants convertible into an equal number of Equity Shares, on a Preferential basis, both at an issue price of **Rs. 2,349/-** per share/warrant, aggregating to a total of approximately **Rs. 214 crores**
Issue and allotment of **1,80,000** Equity Shares on a Preferential basis, at an issue price of **Rs. 2,500/-** per share, aggregating to a total of approximately **Rs. 45 crores**



Instrument



Aggregate Fund Raise

Rights + Preferential Issue

~₹267 Crores

The raised funds are being primarily utilised towards CAPEX funding





PASSION & COLLABORATION

Contact Us

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