

JC GLOBALTM

Waste into worth

Mfrs. of recycled **Polymers - Pyro Oil - Tin**



Waste
into worth

www.jcglobal.co.in





Recycling

isn't just a choice,
it's our responsibility

Every day, millions of tonnes of waste end up in escalating carbon footprints, exhausting natural resources and harming the environment. But waste isn't the end of the line; with the right vision and expertise, it can be transformed into valuable resources.

At **JC Global**, we are at the forefront of carbon-neutral waste management solutions, bridging environmental responsibility with

business profitability by transforming waste into worth. As a leading recycling-driven **manufacturer of Polymers & Pyrolysis Oil**. We provide solutions to the manufacturers for the use of Recycled Polymers to replace Virgin Polymers & to the city corporations & municipalities to dispose the non-degradable plastic waste by converting them into Pyro Oil. There by we are reimagining sustainability through intelligence and innovation.

50,000 MT
Waste recycled per annum

Driven by our Mission,
Vision, and Values,
JC Global is proud to have
reduced carbon footprint
by 67,500 mt. tons. With
sustainability at our core,
we aim to reach a reduction
of 550,000 mt. tons by 2035.

MISSION

To play as responsible caretakers of the
environment, human development & global welfare.

VISION

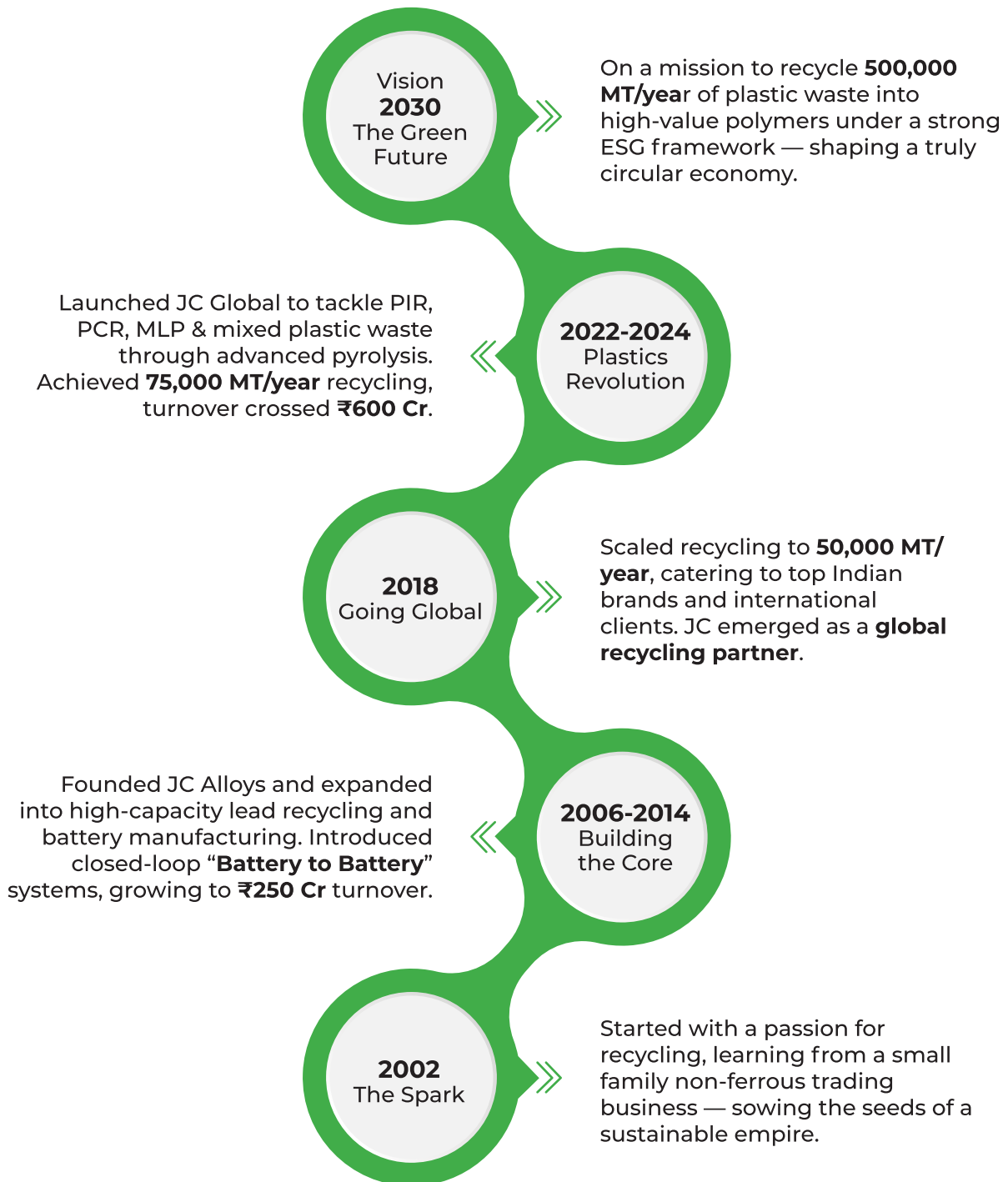
JCG is an environment where continuous growth
is happening by living values.

VALUES

Continuous learning,
Courage, Commitment, Compassion & Care.



JC GLOBAL Founder *milestones*



Powered by People. Driven by *purpose*

Leadership & Team



C. Pradeep
Founder & CMD
JC Global

Founded and led by **C. Pradeep**, the visionary force behind **JC Groups & JC Global** stands on a foundation of expertise and excellence. Under his leadership **75000 Mt/Annum** of Industrial and Consumer waste is converted into recycled Tin, Polymers & Pyro oil.

Board Committee

C. Pradeep *Chairman & Managing Director*
M. Shrudhi Mahalakshmi *Board Director*
A. Krishna Prakash *Joint Managing Director*



Core Team Members

Technical & Production



Krishna Prakash A
Joint Managing Director

Finance



D. Jegadeesh
GM Finance

Procurement



L Sathiskumar
GM Procurement
& Plant Head

Quality



Ravikumar
AGM Quality



Our Raw Material

The waste we *transform*

At JC Global we recycle waste generated from and Post Consumer plastic waste, the type of waste we currently recycle are

PCR Waste (Post Consumer Waste)

Battery Plastic Boxes & Regrinds (PPCP)

Auto Components Waste (PPCP, PPHP, ABS PS)

Chemical Drums (HDPE) – Pallets & Crates (HDPE & PP)

Industrial Packaging Waste (PP, HDPE, LDPE), Industrial Pipes (HDPE) etc...



PCR Waste (Post Consumer Waste)

Household & Packaging items, Bins (PP, HDPE, LDPE, LLDPE)

Domestic Appliances waste & other waste (PP, HDPE, ABS, PS etc)

MLP (Multi layer packaging) waste



Our Products

The value we *create*

We create valuable recycled Polymer as per the grades and requirements of Polymer Industry like Compounders, Moulders, Pipe & Packaging Industry to replace Virgin polymers with recycled polymer up to 100%.

Our Valuable Recycled Products are:

Commodity Polymers:

- PP Copolymer Grades- PPCP, PPCP TF, PPCP GF
- PP Homopolymer Grades – PPHP, PPHP TF, PPHP GF.
- HDPE Grades – HDPE Blow Grade, HDPE Injection Grade, HDPE Pipe.
- LDPE Grades



Technical Data Sheet:

S.NO	TYPE	Properties	Test Method	Unit	PPCP	PPHP	PPGF	HDPE Blow	HDPE Injection
1	Physical	Color	-	-	Black White Colors	Black White Colors	Black White Colors	Blue, Black	Blue, Black
2		Melt Flow Index	ASTM D 1238	GM /10 MIN	5 to 50	7 to 50	1 to 10	0.3 to 3	15 to 30
3		Ash/Filler	ISO 3451	%	1 to 40	1 to 40	10 to 40	1 to 5	1 to 5
4		Moisture	-	%	max 0.05	max 0.05	max 0.05	max 0.05	max 0.05
5		Specific Gravity	ASTM D 792	GM/CC	0.91 to 1.25	0.91 to 1.25	1.03 to 1.2	0.95 to 1	0.95 to 1
6	Mechanical	Izod Impact	ASTM D 256	KG.CM/ CM	2 to 50	2 to 6	3 to 20	15 to 40	3 to 10
7		Tensile Strength	ASTM D 638	MPA	15 to 30	25 to 30	25 to 70	20 to 25	20 to 24
8		Flexural Strength	ASTM D 790	MPA	25 to 35	25 to 35	30 to 85	-	-
9		Flexural Modulus	ASTM D 790	MPA	1000 to 2500	1000 to 2500	1500 to 3500	-	-

* Custom specifications can be accommodated within the limits mentioned above



Commodity Polymer Applications Images

PP Grades - Battery Box, Car Bumpers, Car Dash Board, Two-Wheeler seat, Auto Plastic Parts, Washing Machine Inner Tub, Table, Chair, Pallets, Crates, Fish Tray

PE Grades - Chemical Blue Drums, HDPE Big & Small pipe, Drip Lateral Pipe.

Transforming
waste into
wealth.
Recycling
waste to worth.



At **JC Global** apart from commodity based recycled polymers having confidence on their recycling technology has also developed engineered recycled polymers like **ABS, HIPS, GPPS** and started supplying to the Battery, Auto & Home appliances industry.

Engineering Polymers

- ABS
- HIPS
- GPPS
- Nylon
- PMMA
- PC
- SAN
- PBT

Technical Data Sheet:

S.NO	TYPE	Properties	Test Method	Unit	ABS	HIPS	GPPS	Nylon
1	Physical	Color	-	-	Black	White, Black	Dull Natural	Dull Natural, Black
2		Melt Flow Index	ASTM D 1238	GM /10 Min	20 to 70	4 to 15	7 to 14	-
3		Ash / Filler	ISO 3451	%	1 to 5	1 to 5	1 to 2	1 to 3
4		Moisture	-	%	0.05	0.05	0.05	0.05
5		Specific Gravity	ASTM D 792	GM/CC	1.04 to 1.07	1.03 to 1.06	1.03 to 1.05	1.12 to 1.15
6	Mechanical	Izod Impact	ASTM D 256	KG.CM/ CM	Min 5 to 20	5 to 10	1 to 3	3 to 50
7		Tensile Strength	ASTM D 638	MPA	30 to 40	18 to 22	35 to 40	50 to 70
8		Flexural Strength	ASTM D 790	MPA	40 to 70	40 to 45	60 to 80	70 to 80
9		Flexural Modulus	ASTM D 790	MPA	1500 to 2500	1500 to 2500	1500 to 3000	1500 to 3000

* Custom specifications can be accommodated within the limits mentioned above



Engineering Polymer Applications Images

ABS – ABS Battery Box, Dash Boards, CPU cabinets,
Remote controls, Printers, AC grill.

HIPS – TV Housing, Car Door Internal cover Trays, HIPS Plastic sheet

GPPS – Fridge Trays, CD & DVD case, Low-cost Housings etc...

Sustainability
fueled by vision.
Recycling
powered by
intelligence.





Pyrolysis Oil

At JC Global understanding the challenges of MLP and Mixed non-recyclable plastics in the Land fills and in the market took an initiative in converting in to Plastic Pyro oil with right technology & machineries in place.

JC Global got succeeded in getting quality Pyro oil which has high Calorific value to replace Furnace Oil, LDO which is widely used in many industries for Thermal applications. Going ahead attaining the quality of this oil is now getting converted into Polymers through Polymerization process by major refineries.

Parameter	Typical Value Range	Unit
Density (@15°C)	0.80 – 0.92	g/cm ³
Kinematic Viscosity (@40°C)	2 – 10	cSt
Flash Point	40 – 65	°C
Calorific Value	9,500 – 10,500	Kcal/Kg
Sulfur Content	<0.5 – 1.5	% Wt
Water Content	<1	% Wt
Ash Content	<0.1	% Wt
Carbon Residue	<1.5	% Wt
Cetane Number	40 – 50	-
Distillation Range	150 – 400	°C



Comparison with Conventional Fuels

Parameter	Typical Value Range	Unit
Density (@15°C)	0.80 – 0.92	g/cm ³
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Cetane Number	40 – 50	-
Distillation Range	150 – 400	°C

The diagram illustrates five industrial sectors, each represented by a circular image and a label below it:

- Polymer Industry**: Image showing a close-up of a polymer extrusion process.
- Cement Industry**: Image showing a tall cement silo and conveyor system.
- Steel Industry**: Image showing large rolls of steel in a factory.
- Refineries (refined into diesel)**: Image showing a complex refinery with distillation columns.
- Thermal Industry**: Image showing a power plant with cooling towers.

The diagram consists of four light blue circular icons arranged in a 2x2 grid, each containing a green line-art icon. To the right of each icon is a bold heading followed by a descriptive sentence.

- Waste Reduction:** Efficiently processes multiple plastic types, reducing landfill and ocean pollution. (Icon: A trash can with a downward arrow inside a circle.)
- Environmental Impact:** Generates lower emissions and reduces fossil fuel dependence. (Icon: A hand holding a globe of the Earth.)
- Energy Recovery:** Produces high-calorific pyro oil, usable as an industrial fuel. (Icon: A lightning bolt inside a circle with arrows indicating a cycle.)
- Economic Opportunity:** Produces commercially valuable by-products, promoting circular economy practices. (Icon: A hand holding a coin with an upward-trending arrow.)



Infrastructure

JC Global is situated at Chennai SIPCOT Zone with area of **2 Lakh square feet** Land area and 75000 Square feet Built-up area. It is well equipped with online washing recycling lines, sorting lines, Polymer extruding and compounding lines, Pyro Oil Process lines to the recycling capacity of 25000 Mt Per annum.

JC Global is well-equipped with complete **Lab facility** for the continuous product development and to maintain the quality consistency and to fulfil the technology demands of the valuable customer and the recycling world.



Credentials & *Certifications*



SPCB - Air



SPCB - Water



CPCB - EPR



ISO Certification

*JC Global is CPCB certified unit to fulfill the EPR norms of any manufacturer / producer

Event *Participation*



• IPLAS • PLASTINDIA • PLASTVISION • KPLEX • IPLAS • PLASTASIA • KPLAS



Mfrs. of recycled **Polymers - Pyro Oil - Tin**

Member of
AIPMA, TAPMA, PLEXCONCIL, BMR, BIR, REMA



The Voice of Recycling Industry
in the Middle East



Bureau of
International
Recycling



Let's Turn Waste Into Worth, Together.

Every day, waste piles up. At JC Global, we see opportunity where others see an end. With cutting-edge recycling and carbon-neutral innovations, we turn discarded materials into valuable resources—sustainably, profitably, and responsibly.

Join us in shaping a circular future —
where business thrives, and the planet breathes easy.

JC GLOBAL REFINERIES PVT LTD

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 **Looking to Partner or Supply Waste?** +91 95666 55938

 **General Enquiries:** +91 73389 20111

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