

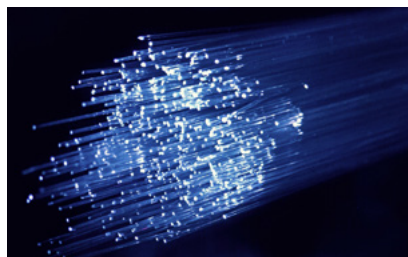
# BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES

SUSTAINABILITY REPORT 2023





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# ABOUT US

As a pioneering enterprise, Runaya presents an enticing business proposition that stands to reshape the metals and minerals sector. Our innovative approach hinges on cutting-edge technology and a sustainable mindset, aiming to overhaul traditional practices in the industry. We envision a future where resource efficiency, environmental

consciousness, and economic growth are seamlessly intertwined. Through strategic collaborations, forward-thinking initiatives, and an unwavering commitment to ESG principles, we offer a distinctive value proposition that harmonizes profitability with responsible business practices, catalyzing a transformative shift in industry norms.



## Our Vision

To be global thought leaders responsible for changing the status quo of the resources industry



## Our Mission

Be the leading partner to the manufacturing sector facilitating new-age technology, sustainable practices and an inclusive work culture





# EMBRACING SUSTAINABILITY, INSPIRING TRANSFORMATION



**NAIVEDYA AGARWAL**  
CEO & CO-FOUNDER



**ANNANYA AGARWAL**  
CEO & CO-FOUNDER

Dear Stakeholders,

In a world undergoing rapid change, Runaya's vision remains clear: to harness the power of innovation and sustainability to "Build Future Positive". We believe these are not competing forces, but rather two sides of the same coin, driving both our success and the well-being of our planet.

This unwavering commitment to ESG forms the foundation of everything we do. It's not just a strategy; it's a deep-seated mindset that guides every decision, from the technologies we implement to the partnerships we forge.

It's an essential element of our DNA, woven into the very fabric of our company. We recognized the immense potential in aligning sustainability with technology in the resources industry, especially in

markets like India, where this synergy was often missing. This unique positioning is our competitive edge, ensuring long-term growth and value creation for all stakeholders. Our business thrives on a two-pronged approach:

**Sustainability First:** Our focus in this domain starts with the efficient management of waste. We convert manufacturing byproducts into value-added products, diverting hazardous materials from landfills and boosting our green footprint. This, along with our portfolio of sustainability patents, cements our place as a responsible leader in the industry.

**Technology as the Enabler:** Cutting-edge technology fuels our operations across the board. Our automated financial system, AI-powered defect control system in the FRP business, and

process optimizations in the Green Aluminium Recovery Business are just a few examples of how we leverage technology to drive efficiency and sustainability.

Looking ahead, our ambition is bold:

- Achieving 100% water positivity and renewable energy utilization within the next 3 years.
- Pioneering a process for producing aluminium fluoride from dross residue, further closing the loop and generating significant revenue.
- Exploring additional Aluminium smelters in India and globally, to maximise our impact while nurturing our current value-added product portfolio.
- Processing 100% of the mining and smelting waste being generated by Zinc smelters in India to recover both Base Metals like Zinc, Lead and Silver along with Minor Metals like Nickel, Cobalt and Lithium that are critical to the energy transition.


- Covering all underground mines and tunnelling projects in India with our product portfolio of MRPL making these safer for our customers.

Beyond financial success, we are deeply committed to social responsibility. We cultivate a diverse and inclusive workplace, prioritizing internal growth and providing opportunities for talent from underprivileged backgrounds. We also actively support initiatives like girl child education, ensuring a brighter future for generations to come.

At Runaya, we believe that innovation and sustainability are the fundamental pillars of a thriving future. As we navigate the challenges and opportunities that lie ahead, we remain steadfast in our commitment to building a legacy of prosperity and environmental responsibility, for our shareholders, our employees, and our planet.

Thank you for being part of our journey.



In a world of innovation, sustainability isn't just a choice; it's our imperative. At Runaya, we've harnessed cutting-edge technologies to elevate productivity while championing a greener future. Our commitment to sustainability isn't just a strategy; it's a mindset that drives every decision we make. Together, we're pioneering a path where innovation and sustainability go hand in hand, defining our success and ensuring a brighter, cleaner future for all. 

**Naivedya & Annanya Agarwal,**

CEO & co-founder, Runaya.





# WHAT MATTERS AT RUNAYA?

## UNIQUE VALUE PROPOSITION

Our chosen platform is the preferred avenue for crafting resource sector solutions. Employing technology, we address industry challenges and cultivate sustainable resolutions. Our core commitment lies in sustainability, embracing a burgeoning market poised for growth and underscored by future-oriented ideals like the zero-carbon movement, circular economy, and essential resources and technology for upcoming businesses. Furthermore, we offer access to exclusive proprietary products within niche sectors. Our strategy centers on research and development, coupled with robust global partnerships. Through our internal innovation

hub and collaborations with tech leaders, we consistently pioneer cutting-edge products and solutions. Our revenue streams are diversified, prioritizing profitability, and we stand out as one of the rare ventures achieving high EBITDA margins right from the outset. A strong alliance with Vedanta Group Companies bolsters our business and minimizes risk, drawing support from a renowned diversified natural resource enterprise. Spearheaded by passionate young founders and a seasoned team with a history of successful growth, we are dedicated to forging an equitable world through a diverse workforce, championing equal opportunities for all.

### Our 3 pillars of focus



#### Sustainability

Runaya is a new age company with environmental and social consciousness at the core of all the processes and business focused on Green Materials, Decarbonization & circular waste management



#### Technology

Using technology to not only improve efficiency and productivity but also work towards a sustainable world



#### Resources

The world needs a new age resources company focused on emerging mining technologies and the material requirements for emerging businesses

**BUSINESS MODEL**

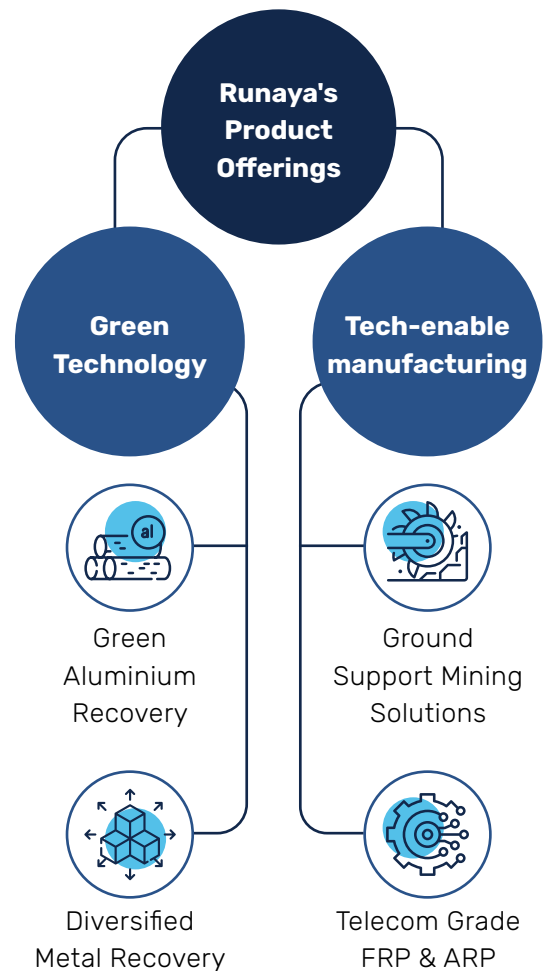
Established in 2017, Runaya’s inception was driven by a vision to integrate advanced technology into India’s manufacturing domain. Our strategic focus encompasses a unique business model, early market positioning, and a foundation rooted in sustainability and diversity. By leveraging cutting-edge technology and forging strong global partnerships, we develop inventive solutions within the resources sector. Our operational framework focuses on green technology and technology-driven manufacturing, both aimed to ‘Build Future Positive’. This approach has fortified our business model, ensuring stability and robust financials.

In today’s digital age, we leverage our expertise to promote a circular economy, delivering top-tier solutions with industry-leading low carbon emissions and energy use. We have transformed industrial waste, like aluminum dross, into valuable products, preventing large volumes of waste from entering landfills and causing harm to communities, the environment, and the climate. Our technology stands out for its eco-friendliness, eliminating the need for gas, water, salt, or heat in aluminum recovery. Our green aluminium ‘Restora Ultra’, with ultra low carbon footprint, stands as a testimony of this vision. Our pioneering patented process allows us to recover Green Aluminium from Aluminium Smelter Waste, setting a new benchmark in environmental sustainability. This has also been recognized by the global authority, DMV, which has certified our recovered Aluminium as having the world’s lowest carbon footprint, emitting just 600kg of CO2 per metric ton of Aluminium.

Today, Runaya stands as one of India’s fastest-growing manufacturing ventures, dedicated to creating sustainable solutions for the resources sector, earning global recognition as a champion of the circular economy.

Our joint venture, Minova Runaya Pvt. Ltd (MRPL), combines Minova’s technical prowess and global presence with Runaya’s project and manufacturing capabilities. Together, we manufacture and supply ground support products that elevate safety standards in mining, infrastructure, and tunnelling.

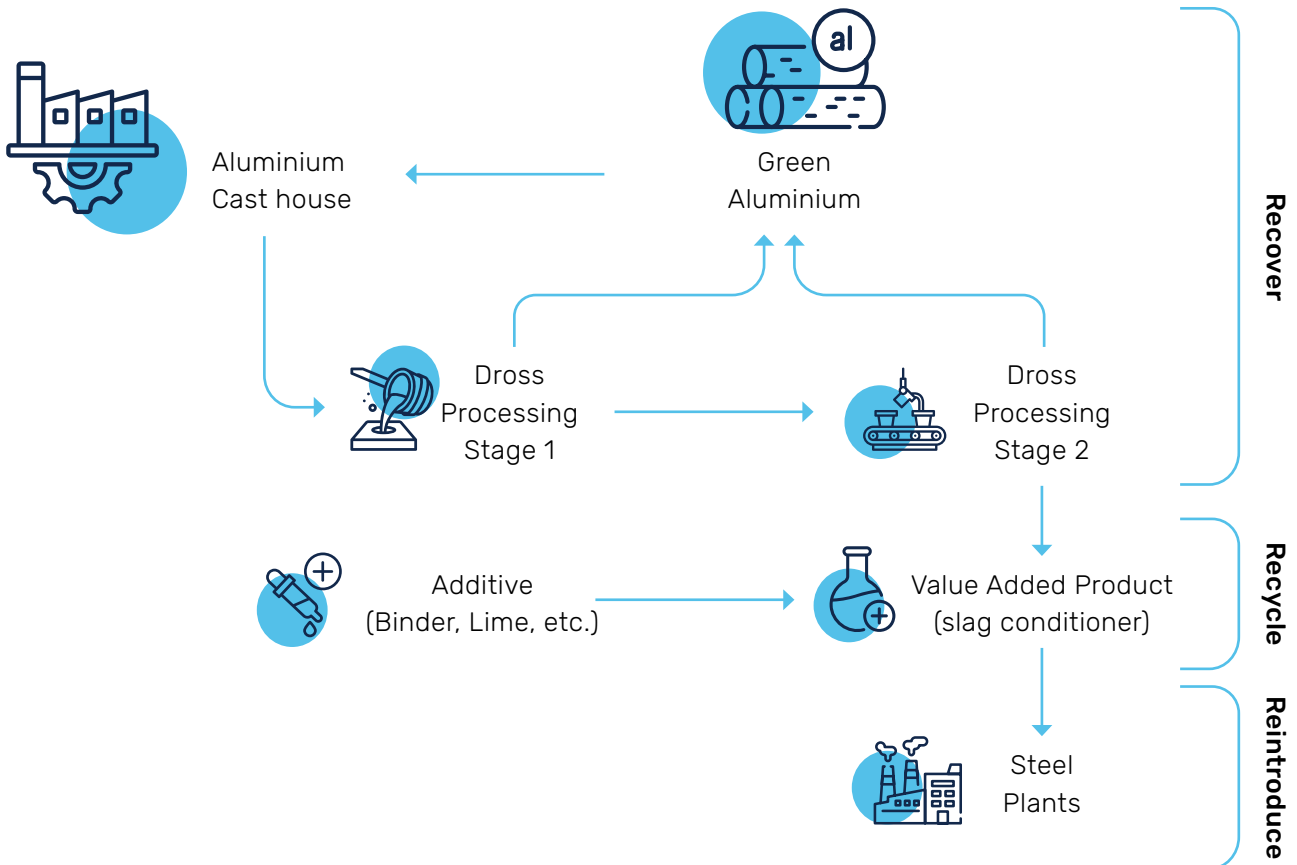
We are also actively participating in the 5G revolution through our Fibre Reinforced Plastic (FRP) Rods business. With a focus on value-added products, we are well-positioned to serve both domestic and export markets.



We operate on a dual-fold business model that embodies both operational sustainability and cutting-edge technology-driven manufacturing. Under the ambit of operational sustainability, we offer forward-looking solutions aimed at fostering a greener future. Our expertise spans Green Aluminum recovery and the ongoing implementation of Minor Metal recovery, including Rare Earth Magnets. We are deeply entrenched in the realm of technology-enabled manufacturing as well. Our portfolio encompasses specialized manufacturing products tailored for diverse sectors such as safe mining, aerospace, defence, and 5G telecommunications. This segment includes ground support solutions, Telecom-grade FRP & ARP Rod, and the forthcoming Gas atomized metallurgical Powder.



**RRL**



## BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES

As India grapples with rapid population growth, urbanization, climate change, and environmental pollution, the need for a resource-efficient model is undeniable. With this, the business we are engaged in, goes beyond mere profit – it significantly benefits the life of people at large. In the mining and metal industry, sustainability has become a necessity. According to a 2018 Niti Aayog report, India’s annual per capita consumption of aluminum stands at about 2.5 kg, primarily used in sectors like automotive, transportation, and construction. While aluminum is one of the most recyclable materials, it can do more. The aluminum industry generates approximately five million tonnes of furnace waste annually, including dross—a by-product of the aluminum melting process, traditionally ending up in landfills, incurring substantial costs. Dross is a by-product of the aluminium melting process and typically ends up in the landfill, costing the market about £50 million, as per Niti Aayog. In India, about 80,000 tonnes of dross enter landfills

every year and with Runaya’s technology, expects to reduce that amount by 30,000 tons by the end of the financial year.

The technology ensures 100% utilization of waste, striving to disrupt the resources industry where at present, even the best practices in the industry can only process 50% of waste. Similarly though our ‘Minor Metal Recovery Business’, all of our Greenfield growth in the next 2 years will come as we scale our Minor Metal recovery business. This will allow us to recover valuable metals including Nickel, Cobalt, Lithium, Silver, Cadmium and Copper along with Zinc and Lead from both smelter waste and mining waste.

With innovation centres at our Green Aluminium Recovery and Telecom Grade FRP & ARP Rods’ Businesses, we focus on driving innovative & sustainable solutions across the resources sector. Hence, we have created two Innovation Centres at Runaya with a threefold mission:

-  Identify global challenges faced by the resources industry and collaborate with institutions to develop solutions. For instance, we partnered with IIT Kharagpur to explore High Purity Alumina recovery from Aluminum Dross.
-  Focus on new product development, particularly at our FRP plant in Silvassa. Our Innovation Centre strives to create a comprehensive value-added product portfolio, providing integrated solutions to our customers.
-  Identify areas of operational efficiency improvement to mitigate business risks. Through Industry 4.0 initiatives and process streamlining led by our Innovation Centre, we have significantly increased the processing capacity of our Dross processing machines, reducing costs and enhancing efficiency.

## Double Materiality

The expectations of our customers, employees, investors, and value chain partners are our top priority. Hence, we conducted a double materiality to understand their material concerns.

Under traditional materiality reporting, a thematic area was considered material only if it had a direct impact on a company's financial performance.

However, adopting the concept of double materiality, we recognized that information about our impact on the world was also considered material. We adopted this approach based on the latest GRI Guidelines (2021), assessing both the impacts of society and the environment on our operations as well as our operations' impacts on the environment and society.

### This shift allows us to achieve several key goals:



We achieved greater corporate transparency, ensuring complete openness about our influence on society and the environment.



Our stakeholder engagement increased, providing a more comprehensive understanding of the challenges and opportunities compared to traditional financial reporting.



We mitigated reputational risks by leveraging double materiality, equipping our sustainability team with crucial data to prioritize objectives effectively.

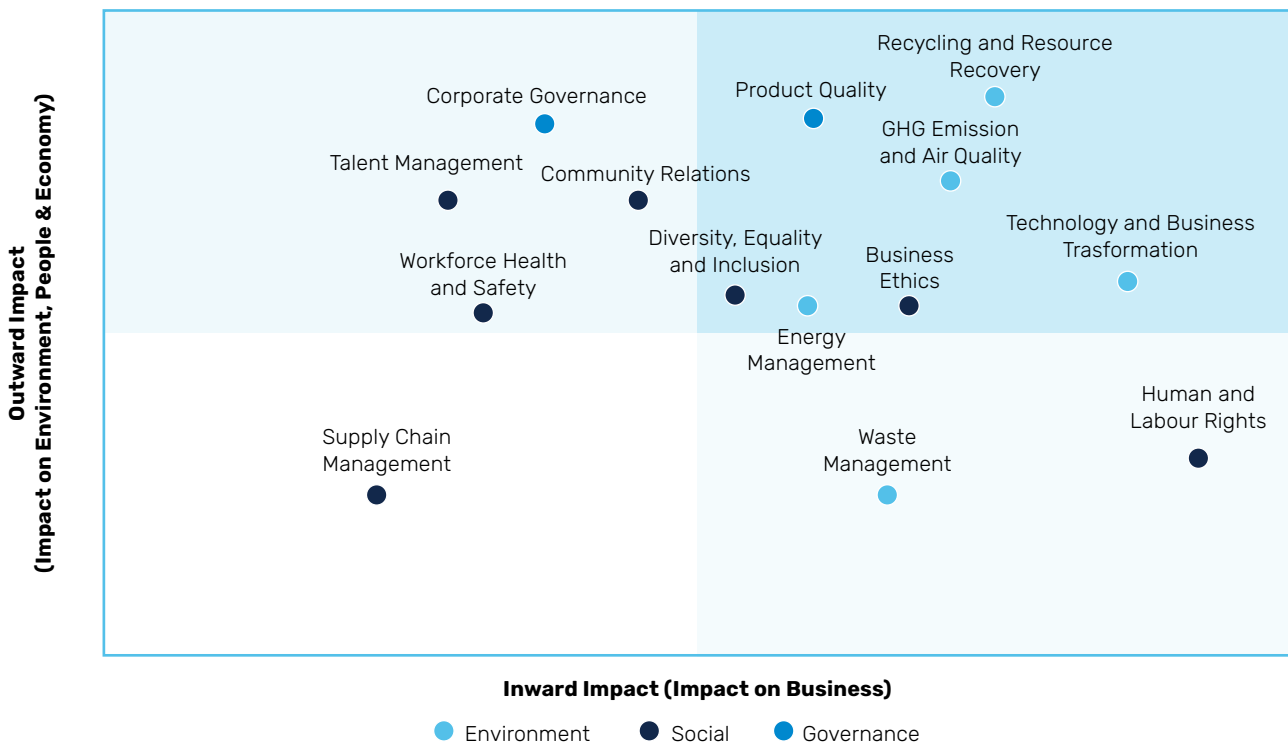


This approach facilitated the creation of more effective management strategies, guiding us in addressing key issues.



Enhanced transparency worked in our favor to attract investors, strengthening our relationships within the investor community.

## BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES



Ensuring the presence of crucial stakeholders is pivotal when applying the concept of double materiality to prioritize significant subjects. We are enhancing our methodologies by incorporating

scientific approaches to ensure the proper involvement of stakeholders in the decision-making process.

### The steps preceding the final reporting of our material topics are as follows:



#### Identification:

We identified material topics that were significant to our operations and the interest of our stakeholders. Our selection criteria was guided by industry-specific standards including SASB, and an assessment of material sustainability topics within our peer companies.



#### Stakeholder Input Gathering:

After shortlisting the material topics, we sought input from a diverse range of both internal and external stakeholders. This engagement yielded a spectrum of feedback, both positive and negative.



#### Prioritization:

Following the identification of potential material topics, we systematically ranked them by order of significance, taking into account their impact on both the organization and our stakeholders. This assessment often considered the economic, environmental, and social repercussions associated with these subjects.



#### Validation:

We engaged with stakeholders and the management committee to validate the materiality of the identified topics.

This rigorous process ensured that our reporting aligned with stakeholder concerns and met their expectations.

**Environment**



Recycling and Resource Recovery



GHG emissions and Air Quality



Energy Management



Waste Management

**Social**



Human and Labour Rights



Diversity, Equity, and Inclusion



Community Relation



Workforce Health and Safety



Talent Management

**Governance**



Technology and Business Transformation



Business Ethics



Product Quality



Corporate Governance



Supply Chain Management

## Key Highlights

Runaya stands as a prominent force in India's manufacturing landscape, distinguished by our unwavering commitment to sustainability and innovation. Our core values are deeply rooted in the principles of responsible business practices and a technology-centric approach that propels growth across our diverse ventures.

Our vision extends beyond industry norms, aspiring to become global pioneers that catalyze transformation in the resources sector, ultimately shaping a future-oriented organization. We pride ourselves on more than just creating innovations; we meticulously

craft them with a purpose, emphasizing sustainability and fostering a forward-thinking perspective. This approach lays the groundwork for a future characterized by positive change.

Central to our ethos is a steadfast belief in harnessing cutting-edge innovation and technological advancements, all while embracing the tenets of a circular economy. This commitment aligns with our overarching mission to 'Build Future Positive.' With innovation, sustainability, and inclusivity at the forefront of our endeavors, we are poised not only to redefine the manufacturing landscape in India but also to make a global impact.







**16000 MT**

Certified Green Aluminium recovery annual capacity of 40,000 MT of dross



**Net Zero Days**

Net Working Capital



**350 Cr. (INR)**

Highest contribution to ex-chequer among MSMEs



**50%**

Women employees and leaders



**<1x**

Gross Leverage Ratio



**2 million km**

Capacity of FRP & ARP rods, serving 4G/5G telecom sector



**400 Cr. (INR)**

Annual Revenue within 3 years of inception



**Zero Days**

Of Fatalities and LTFIR



**1,200 Kgs**

RPL's Quantity Recycled



**0.5**

Average emission intensity of Runaya Group



# GOVERNANCE

## BUSINESS INNOVATION AND ENVIRONMENT AWARDS

Asia-Pacific Stevie Award  
**Innovation in Energy and Sustainability Category  
(Bronze)**

Best Heavy Industrial Waste Management  
**Company National ESG Compliance Excellence Awards,  
Medium Enterprises and national level start up  
sustainability**

Global Sustainability Leadership Award  
**Sustainable Business of the Year**

CMO Asia's Manufacturing Excellence Awards  
**Best in Class Green manufacturing**

World Recycling for a Greener Tomorrow Award  
**Gold Award at BW Business**

GSS Summit Award  
**National Level Start-up Sustainability Award**

Environmental Impact by BW Business World  
**Best Emerging Enterprise Creating**

Foundation Global Awards 2020 in WasteMet category by  
Energy and Environment Foundation  
**Energy and Environment**

Golden Peacock Award  
**Innovative Product Award**

Annual TQM Convention  
**Award at 22nd**



## **TECHNOLOGY AND BUSINESS TRANSFORMATION**

At Runaya, we enable innovation, sustainability, and efficiency improvement in the resources and manufacturing sector with key focus on business execution that enables a circular economy and promotes the concept of waste to wealth. Lean manufacturing is ideated with the focus on maximizing efficiency while minimizing waste. Green aluminium recovery helps optimize the process of aluminium smelting by dross processing. Using this technology, the entire process is optimised to be energy efficient and environment friendly since it contributes to the circular economy model.

Runaya has a dedicated R&D Team in each of our business arms that work on refining existing solutions along with development of new & better products. There is also a focus on improving efficiencies to boost business performance. We are currently collaborating with research institutes such to improve our solutions.

### **IIT Kharagpur**

Product development of high purity alumina

### **NCL Pune**

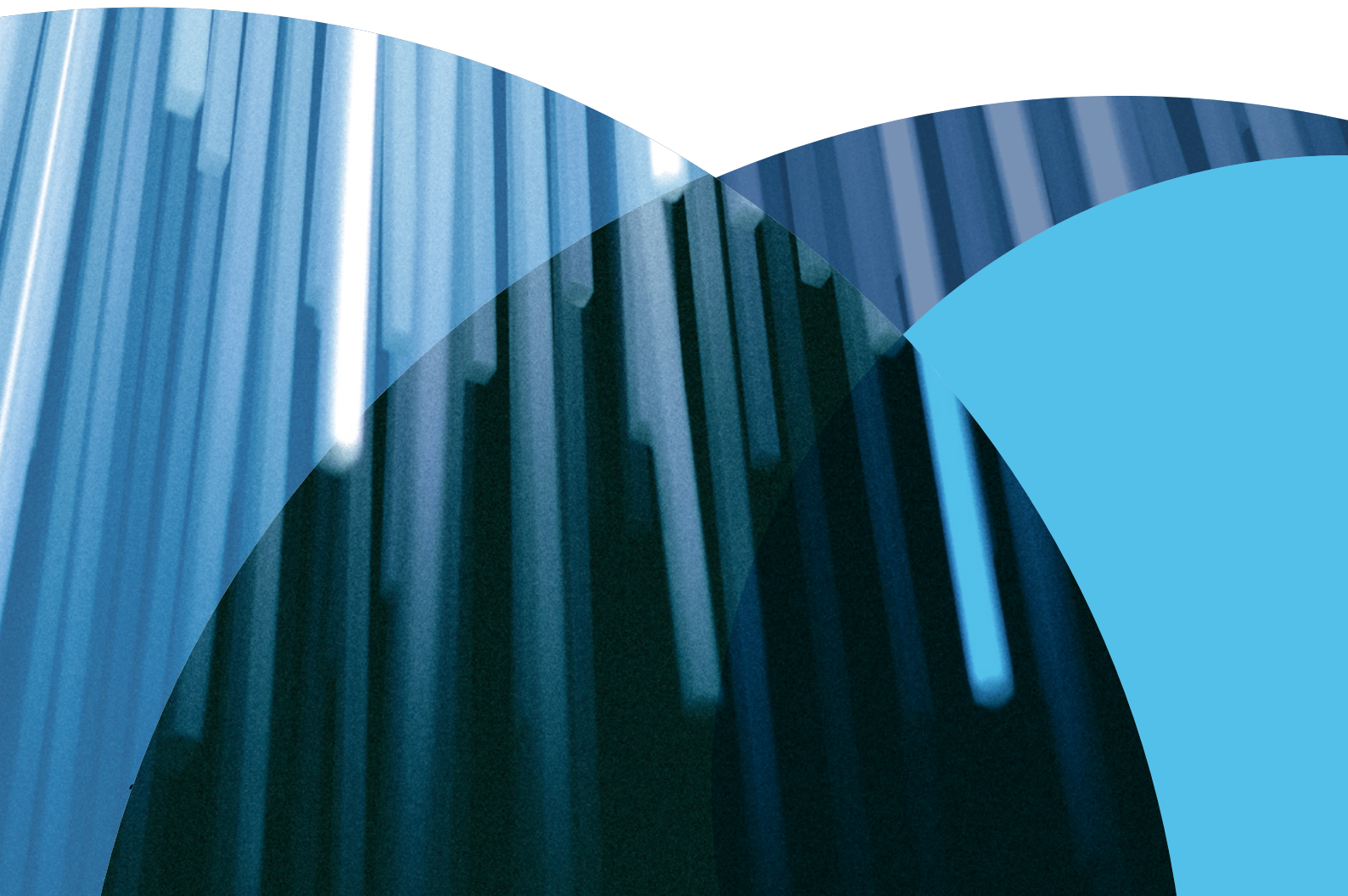
FRP Resin curing and new resin development

### **IIT Kanpur**

Thermoplastic base FRP resin for future development

### **NIT Calicut**

Simulation and Modelling of FRP pultrusion process



## FROM DROSS TO ALUMINA: OUR BREAKTHROUGH WITH IIT KHARAGPUR



### Innovative Alumina Extraction Process from Aluminium Dross

Our team at RRL has collaborated with researchers at the Indian Institute of Technology Kharagpur, to create a patented process to extract alumina from aluminium dross. This remarkable innovation has made it possible to tackle a waste management while also producing high-purity alumina and a valuable byproduct. Our goal with this innovation was to create a process for extracting alumina from 'black dross' which is a type of waste material containing more than 10% alumina.



### Efficiency Enhancements in the Process

The ground-up waste material is taken up and treated with sodium hydroxide (NaOH), along with a series of steps involving leaching, washing, and roasting. Through this process, a substance called 'aluminium hydroxide' is produced, which when further washed with water and/or a mild acid, we can obtain alumina with a purity ranging from 90% to 99.9%.

### Impacts and Benefits

This innovation holds significant promise in multiple aspects:



#### Waste Management:

The process offers a sustainable solution for handling aluminum dross, reducing the environmental footprint associated with this waste material.



#### Alumina Production:

It enables the extraction of high-purity alumina, which has applications in various industries, including electronics and ceramics.



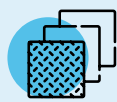
#### Byproduct Value:

The generation of sodium carbonate adds economic value to the process by providing another marketable product.

We are looking forward to further developing global alliances in the manufacturing and resources industry, providing project and manufacturing capabilities to technology and research partners. Our key interests lie in:



Decarbonization  
Solutions



New Age  
Metals



Mineral  
Waste



Safer  
Mining



Requirements for  
new age business

We look forward to paving an ESG driven approach and develop global alliances to support the journey of clean energy, green metal recovery and Electric vehicles.

## PRODUCT QUALITY

### Green Aluminium



#### RubiQ Green and Rucal Green

- Made from the depleted dross and is a major source of Alumina.
- Allows easy and dust free handling and application.
- Replaces the use of primary Aluminium

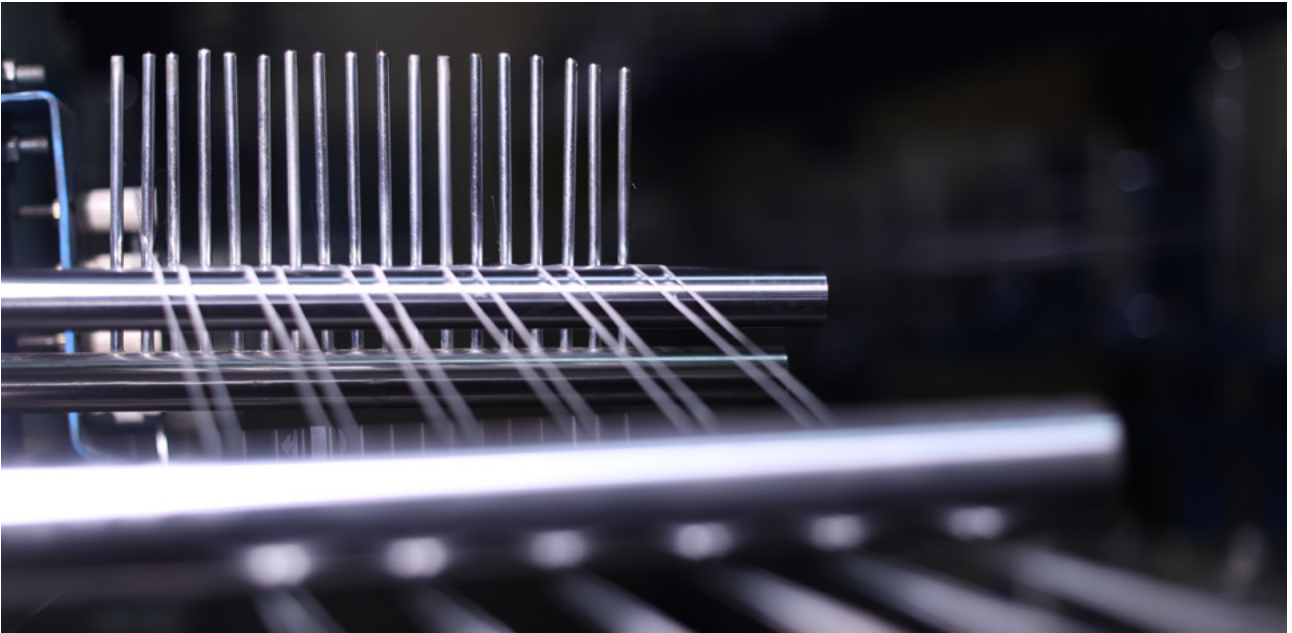
### Ground Support and Mining Solutions



- **Rock Bolts**
- **Resin Capsules**
- **Wire Mesh**

MRPL manufactures a wide and varied range of ground support products aimed at enhancing the safety standards for infrastructure, mining and tunnelling systems.

### Telecom Grade FRP & ARP Rods



#### FRP Rods

Specially innovated and designed with a high strength-to-weight ratio and minimum bend radius, making it a preferred choice in the industry.

#### ARP Rods

We manufacture ARP rods from premium quality Aramid Yarn through Thermal Curing. These are used primarily in Fibre to the Home (FTTH) Cables, Micro-duct Cables and Aerial Drop Cables.

## Diversified Metal Recovery



- Cobalt Cake
- Lead Ingot
- Copper Matte
- Potassium Antimony Tartrate (PAT)
- Zinc Sulphate
- Copper Sulphate
- Cadmium Sponge

These recovered metals find applications in

- Electric Vehicles
- Automotive
- Casting & Galvanizing
- Pharmaceutical Industry
- Alloying
- Food additive

## DATA SECURITY AND PRIVACY

Ensuring data security holds utmost significance at Runaya, as it doesn't just protect valuable corporate data but also shields customer's personal information. In the contemporary era dominated by digital advancements, the rise in data breaches and cyber threats underscores the vital need for strong data security protocols. These measures are not only crucial for upholding trust

and credibility but also for sustaining seamless business operations.

### **Zero** Cases for FY 22-23

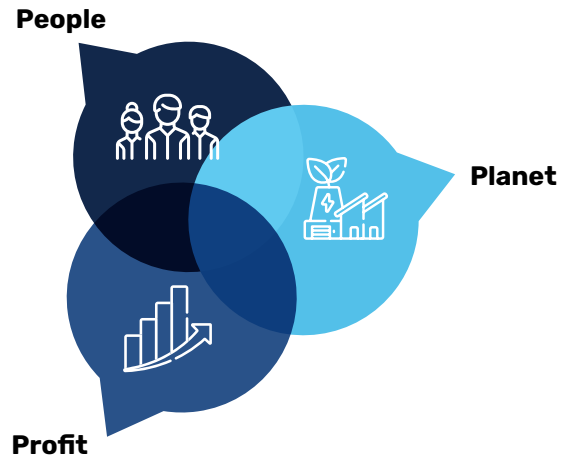
Substantiated complaints concerning breaches of customer privacy and losses of customer data.

## CORPORATE GOVERNANCE AND BUSINESS ETHICS

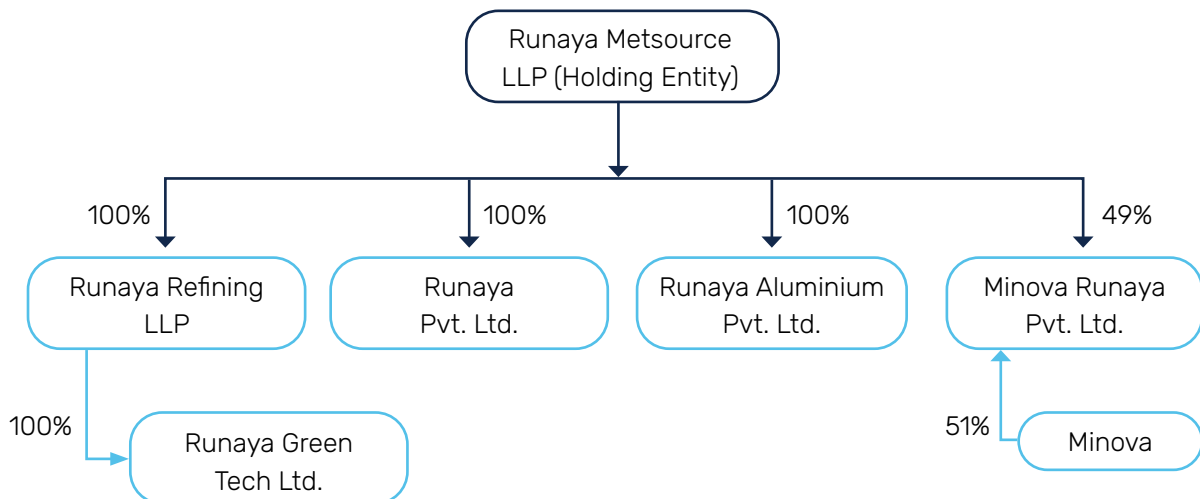
Runaya acknowledges the critical role of efficient communication in enhancing shareholder value. To thrive and expand, the company must establish trust among its shareholders, workforce, clients, suppliers, and local communities. This is achieved by maintaining transparency in its communications and consistently fulfilling its obligations. We govern our activities with resolute dedication, extending this commitment to our workforce and communities. This commitment is manifested through robust governance initiatives, commencing with our Board’s leadership, fostering a culture of unwavering ethics, ensuring steadfast adherence to regulations, and maintaining a transparent reporting mechanism.

We consider compliance to be a fundamental element of our culture of integrity. At Runaya, we firmly believe that attaining success and sustainable, profitable growth is contingent upon the unwavering commitment of every member of our organization to uphold principles of integrity, high moral standards, and a deep respect for robust environmental, social, and governance practices. The triple bottom line strategy encompasses three vital aspects—people, planet, and profit—which

collectively underpin a business’s triumph. At Runaya, we diligently uphold equilibrium among these three facets, notwithstanding our inherent profit-driven focus. Runaya has seamlessly woven an environmentally conscious and sustainable mindset into our fundamental business operations. This entails the integration and enhancement of practices like the adoption of lean manufacturing principles, establishment of eco-friendly supply chains, and the elevation of sustainability to a prominent position in boardroom discussions.



## Corporate Structure





## Our Leadership



**Naivedya Agarwal**  
Co-Founder & CEO

Naivedya is the Co- Founder and CEO at Runaya, responsible for the Manufacturing Technologies vertical. As an advocate and believer in technology and innovation leading to business growth, Naivedya also drives the digitization journey and strategic growth roadmap for Runaya. Naivedya holds an MBA degree from London Business School.

Prior to founding Runaya, Naivedya worked with organizations such as Boston Consulting Group, JP Morgan and Vedanta Resources where he was Vice President-Business Development at Hindustan Zinc.



**Annanya Agarwal**  
Co-Founder & CEO

Under his leadership at Green Aluminium Recovery Business, the company has achieved major milestones in less than five years of the operations. He has been extensively involved in the development of "Restora Ultra", the world's lowest Carbon Footprint Aluminium, and has also been instrumental in executing our green field projects. He studied Economics and Sociology at Emory University and is an alumnus of United World College SouthEast Asia (UWCSEA), Singapore.

Annanya comes with a rich global experience having worked with renowned companies such as Boston Consulting Group, McKinsey & Company and Standard Chartered Bank.



**Amit Pradhan**  
Vice Chairman

Carrying a rich experience of over 40 years, Amit Pradhan is the Vice-Chairman of Runaya. He has been associated with the company since its inception.

Amit Pradhan is an alumnus of St Stephens College, Delhi and IIT Delhi. He was a member of the Board of Directors of Sesa Goa Group of companies. He was also responsible for the acquisition of new tenements and policy framework interventions. Prior to this, he had also led the commercial business for the group.

Amit has been felicitated with the Jewel of India Award by Indian Solidarity Council for his exceptional role in the developments. He has also been recognized by the International WHO Historical Society for his exemplary achievement and distinguished contributions to the business community.

## BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES



**Aniruddha Joshi**

President - Business  
Development

With over 35 years of rich experience in the metals and mining industry, Aniruddha N. Joshi is the President of Business Development at Runaya.

Since 2002, he had initiated laterite waste as Iron ore and sold it to one of the best European plants in the world. After retiring in August 2015 from Vedanta Ltd (erstwhile Sesa Goa) as CEO, he worked as full-time consultant to Iron Ore Business of Vedanta Ltd till April 2016 and later worked as part time consultant till May 2017.



**Neha Bhandari**

CFO

Having a rich industry experience of over 20 years in finance and commerce, Neha Bhandari is the Group CFO of Runaya, and is responsible for group finance and strategy. She is well-versed in the key business drivers, challenges, and strategies. Being a qualified Chartered Accountant and an experienced professional, she is looked up to for her leadership and exceptional analytical skills.

Neha comes with a rich 15 years of experience in Vedanta Resources and has covered group financial controlling, strategy, and corporate finance. She is a CA from The Indian Institute of Chartered Accountants of India (IICAI) and has raised USD 35 billion in the form of equity and debt under various structures.



**K Ganeshkumar**

Dy. CEO - FRP Business

Ganesh has over 20+ years of diversified experience in Marketing, Business Development, Operations & Supply Chain Management with his main expertise in metal, mining, and Auto component industry. In his current capacity as Deputy CEO of Runaya Private Limited, his main responsibility is to unlock the true potential of business with strong focus on ESG, Volume, Cost, MIP, Innovation, Digitalisation, quality and stakeholder management to build a world class organisation. Ganesh has a Chemical Engineering master's degree from NIT Trichy and an Executive MBA from IIM Calcutta with focus on Operations, Supply Chain Management, New product management, Strategy and Marketing.

Prior to joining Runaya in 2021, Ganesh led the Business Development Wing at Rane Brake Lining Limited. Ganesh started his career as an Associate Manager (Operations) in Sterlite Industries India Limited.



**Jagannath Prasad**  
Dy. CEO- Green Aluminium & Metal Recovery Business

Jagannath started his career as an Associate Manager - Operations in Hindustan Zinc. Throughout his career, he has been entrusted with various roles and responsibilities including the strategic planning process, Business analysis and implementation of various Operational and Cost Initiatives. During his course, he has also handled over a million dollars spend base for Strategic Mining expansion projects - Mine development, infrastructure, and beneficiation plants.

He has successfully completed two Greenfield Projects in Aluminium Metal and downstream industry. Additionally, he is also driving the strategic acquisition, and New Projects for establishing a minor & base metal recovery business.

## BUSINESS INTEGRITY AND CODES OF CONDUCT

Our senior management consistently achieves results, leveraging their extensive industry expertise, entrepreneurial drive, and an unwavering commitment to operational excellence, governance, and compliance processes. At Runaya, prioritizing compliance with both external laws and internal regulations stands as a paramount objective. The Board periodically retains oversight of specific

risks, reserving them for their direct attention. This includes monitoring management's adherence to the risk management framework in relation to these identified risks and continuously evaluating the effectiveness of the Group's governance practices. Runaya maintains a comprehensive list of policies and procedures that encompasses our purpose and values.



Anti-Bribery Anti-Corruption Policy



Drug and Alcohol Policy



Equal Opportunity Policy



Code of Business Conduct and Ethics



Data Privacy Policy



Policy on Prevention, Prohibition and Redressal of Sexual Harassment at Workplace



E-Waste Disposal Policy



Gift and Entertainment Policy



Grievance Redressal Policy



Human Rights Policy



Social Policy



Supplier Code of Conduct



Quality, Health, Safety and Environment Policy



# SOCIAL

Great Places to work  
**Great Places to work for 2022**

People First HR Excellence Award  
**Diversity and Inclusion**

People's First HR Excellence  
**Award in leading practices in diversity and inclusion initiatives**

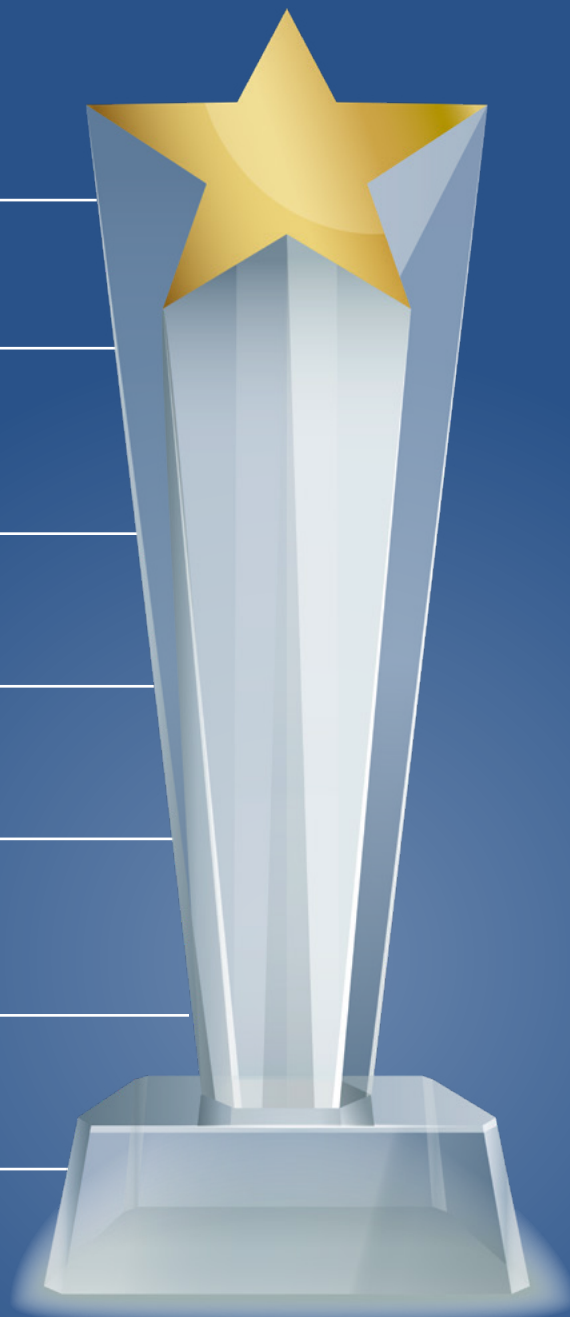
Asian Leadership Award  
**Work Inclusion and Diversity**

UBS Forums  
**CSR Project of the Year**

Global CSR Excellence Leadership Award  
**For best COVID-19 solution for Community Care  
World CSR Congress**

BW Happies Workplace Award  
**BW Happiest Workplace award 2022**

People's first HR Excellence Award  
**Impactful HR Strategy**



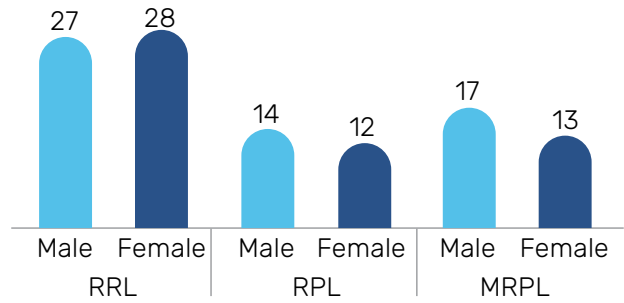
## OUR WORKFORCE

Our workforce plays a pivotal role in propelling our growth and accomplishments. Their abilities, dedication, well-being, resilience, and expertise exert substantial influence on our operational and financial achievements. We are committed to establishing a secure and supportive work environment that caters to all employees, regardless of their location.

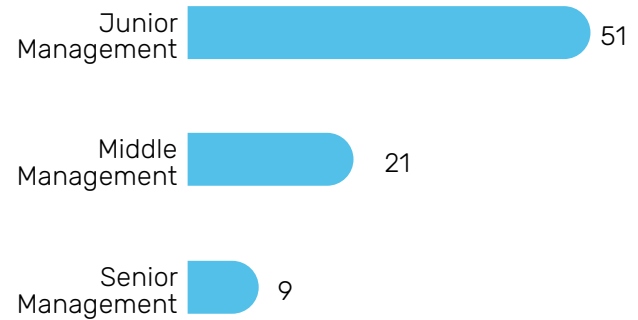
In our pursuit of true equity, we are staunch advocates for fostering a workplace culture that encourages open dialogue and embraces a variety of perspectives. We believe that every voice matters and actively seek input from all members of our team. By harnessing the richness of diverse viewpoints, we not only enrich our decision-making processes but also fuel our journey of innovation.

We have instituted a Code of Conduct, company values, and policies to ensure the preservation and observance of human rights throughout our organizational hierarchy. To encourage open communication, we have introduced both an open-door policy and a whistle-blower mechanism. Our people-centric human resources approach underscores our commitment to fostering diversity, offering equitable compensation, rewards, employee perks, career progression avenues, and training opportunities.

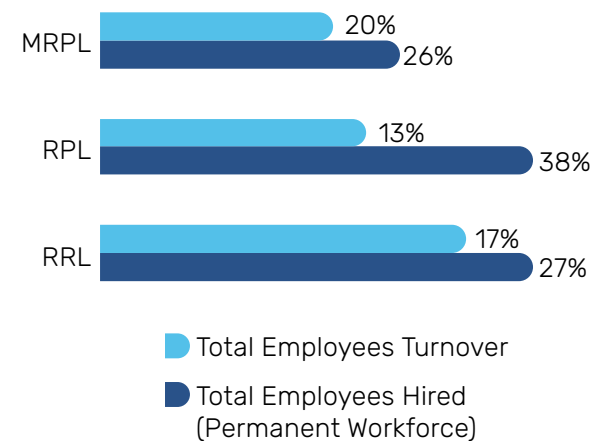
### Employee Workforce by Gender



### Employee Workforce by Management Level



### Employee new hires and turnover



### **Employee Engagement (GPTW)**

We regularly organize structured engagement sessions with our employees and business partners, addressing topics that are relevant to them. The discussions cover a range of subjects, including setting annual performance objectives,

evaluating performance and providing feedback, career advancement, raising awareness about organizational development and strategies, motivation and positive reinforcement, learning and skill development, and team cohesion, among various other areas

## **TALENT MANAGEMENT**

Our People Strategy is centred on recruiting the right individuals, cultivating their skills through structured initiatives, and promoting them to leadership positions that align with Runaya's aspirations. Our company places a significant emphasis on nurturing potential from within by offering tailored programs and guidance, ensuring that high-potential talent is prepared for elevated responsibilities. We have crafted specialized programs to holistically develop our talent pool, regularly assessing their effectiveness and adapting them to evolving business needs.

We firmly believe that the growth of our organization is directly linked to the growth of our employees. To achieve this, we foster comprehensive development through learning programs, developmental dialogues, and performance evaluations.

### **Training And Development**

Employees from RRL and RPL were nominated to attend training session at IIM Ahmedabad for "Enhancing Leadership & Strategic Communication". The two - day online programme deliberated on such recent principles and practice of communication including



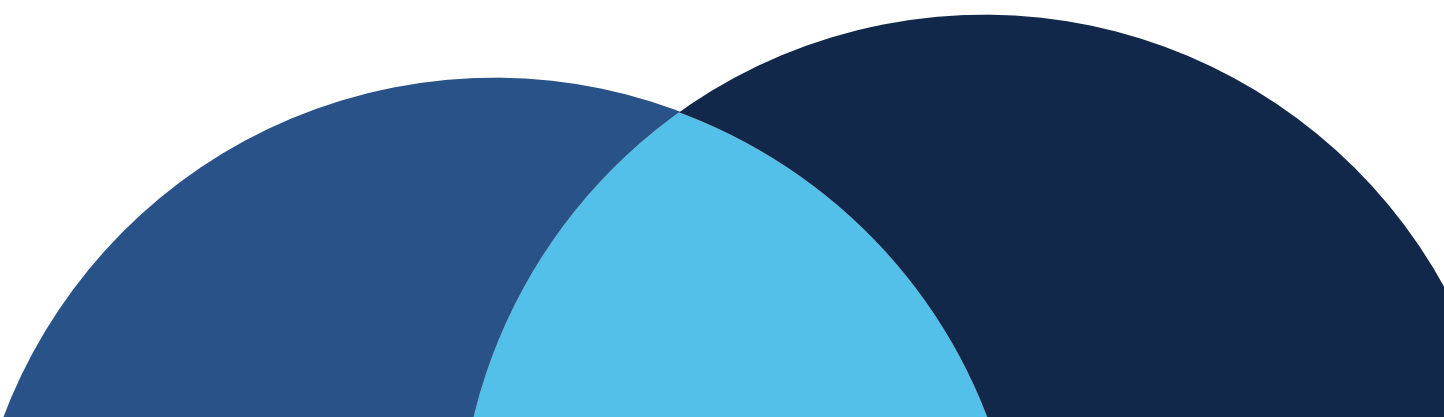
Leadership and credibility traits



Implications of hyper-transparency



Strategically important methods for evidence-based communication



## ENABLING EMPLOYEE WELLBEING

### Employee Friendly Policies



Parental Leave Policy



Adoption Policy



Flexible Working Arrangement for employees who are expecting.



Flexible working timing for employees in metro location.



Transportation facilities for employees at plant locations.

### Rewards and Recognition



#### CEO Achievement Award

Our direct and indirect employees receive a monthly recognition & Reward where employees are nominated by their anchors. The winner is facilitated in the presence of their family members.



#### Variable Pay

These are annual performance-based rewards that is based on organizational performance and individual performance paid on annual basis that motivate employees and drive performance.



#### Monthly Production incentive

There are monthly monetary rewards given to all employees on achieving the set target production.



#### ACT UP

For the identification of High Potential executives, we have the Accelerated Competency Tracking & Upgradation Program (ACT UP) in which assessment is done and outcome is role elevation & salary increments.



#### Mid Term Role elevations & Increments

to recognize employees inspiring them to take pride in their job, ownership in their work, and contribution to the success of the company.



#### Long-Term Incentive Scheme

Rewards pay out in a Staggered manner (Each yr the employees will be rewarded with a fixed amount as a % of eligible LTIP that will be disbursed in 3 yrs).



#### Tenure Incentive Scheme

Monetary rewards to the employees for 3 yrs to stay in the organization, proportionate pay out every year.



## OCCUPATIONAL HEALTH AND SAFETY

Safety holds paramount significance for us at Runaya. Our unwavering commitment revolves around mitigating workplace hazards and risks for our employees. Our Zero Harm aspiration underscores a culture of vigilance, where we continuously strive to ensure the well-being of every employee and business partner engaged in our operations, ensuring their safe return home.

We have implemented an Occupational Health and Safety Management System, following ISO procedures, for both permanent employees and business partner employees. This system includes a Hazard Identification and Risk Assessment (HIRA) with hierarchical control of hazards. Scheduled training sessions have been allocated for all workforce members, with specific training requirements for various activities. Shop floor teams are required to undergo training for activities such as molten metal handling, hazardous waste management, working at heights, vehicle operation, and confined space entry.

**Zero**  
LTIFR Cases

**Zero**  
Fatalities

### Runaya's safety standards include:



Waste Management



HSE Management Systems



Operational Control Process



Hazard Identification and Risk Assessment (HIRA) and JESERA for non-routine activity



Safe Maintenance Procedure



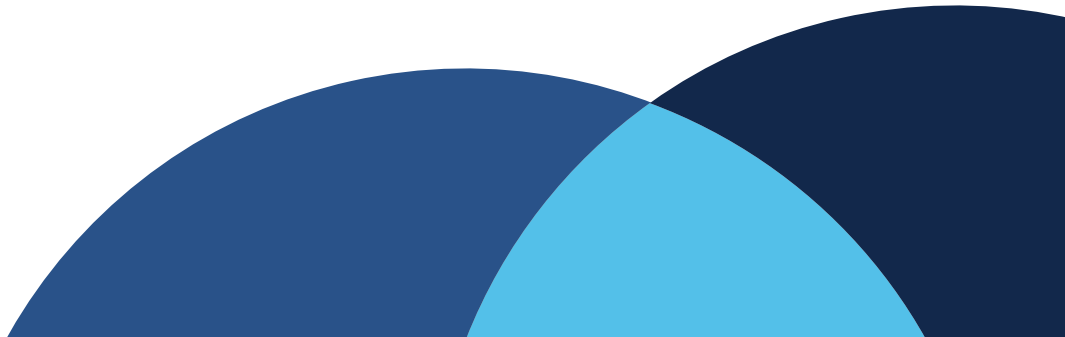
Compliance with the Environment Protection Act of 1986



On-site Emergency Procedures (Both General and Ammonia-related)



Aspect and Impact Assessment



## BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES

The scope of the occupational health and safety management system covers a range of workers, activities, and workplaces. Workers are required to attend relevant on-the-job training and safety inductions before commencing any activities. They must also participate in pre-startup safety reviews for machinery. Compliance with ISO procedures and related training is mandatory, along with wearing approved personal protective equipment (PPE) like Alusafe for protection against molten metal splashes and NIOSH-approved 3M Ammonia respirators.

At Runaya, we offer comprehensive training and development initiatives to both our direct and indirect staff. This includes the establishment of a quality assurance laboratory, which is integrated with regular quality control audits. All training sessions are scheduled during paid working hours, and we gauge their impact through participant feedback. We also conduct monthly management reviews to assess performance and immediately implement any necessary corrective or preventive actions. Standard operating procedures (SOPs) are in place for reporting workplace hazards, and root cause analysis (RCA) is performed for all types of incidents, with preventive actions implemented. Additionally, we have educational sessions, toolbox talks, company-wide meetings and zone ownership to engage workers in safety discussions.

Further internal trainings and knowledge sessions were held for:

01 LOTOV Awareness and Electrical Safety

02 Casthouse Furnish Distribution (Type of Dross and Dross Weighment)

03 PPE

We have appointed experienced and certified health and safety professionals to supervise the structured hierarchy of hazard control. We are continuously improving across all aspects of occupational health and safety management performance through the Plan-Do-Check-Act (PDCA) cycle, following the ISO 45001 management system. Regular audits and inspections are carried out to evaluate potential hazards and risks, and we proactively implement safety measures to mitigate these risks.

Regular reporting includes tracking corrective and preventive action (CAPA) closures, timelines, and responsibility matrices. Emergency contact information is provided, enabling workers to stop and remove themselves from hazardous situations. Incident investigations involve a detailed analysis, including the incident's context, root causes, and cross-functional team inspections, followed by corrective and preventive actions.

We also have a safety committee in place that includes worker representatives to ensure the effective implementation of management systems. Monthly safety committee meetings are held monthly to address lapses and areas of improvement, determining responsibility matrices and closure timelines. We extend non-occupational facilities via ESIC to both workers and management, with all individuals covered by a Medclaim policy. Workers are protected against redressal through confidential feedback channel and input submission via QR code.



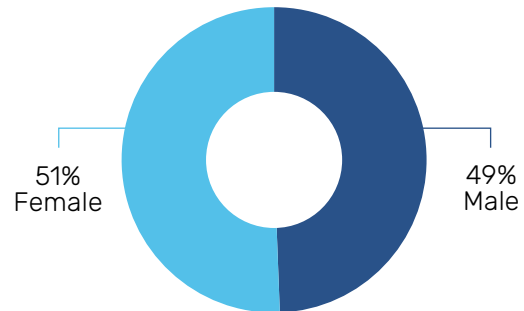
## DIVERSITY, EQUITY AND INCLUSION

Runaya’s commitment towards diversity and inclusion is unparalleled, making it a pioneer amongst its peers in its efforts to assimilate women workforce in its growth story. We have best-in-class people practices and encourage “Leadership from Within”. Runaya has a young team guided by senior leadership, who are industry and functional area stalwarts. We are proudly at the forefront of empowering women in the mining sector. We understand that diversity within traditionally male-dominated industries fosters fresh perspectives and propels progress. Our unwavering commitment to supporting women in mining underscores our dedication to a more inclusive and dynamic industry. Demonstrating our commitment towards gender diversity in the workforce, Runaya, one of the leading fast-growing manufacturing start-up has a rich culture with more than 60% of women in their direct workforce, and about 30% of women in the indirect workforce as well as on-boarding 2% employees from the transgender community. Runaya also plans to include 1% especially abled people into its workforce to further bolster inclusivity, across all their locations.

We are devoted to nurturing a culture that advocates for women’s equality, well-being, and trust, cultivating a secure and supportive workplace. Our emphasis is on creating a welcoming environment for women and their professional growth, supported by well-assessed programs with tangible outcomes. Developing women leaders within our organization is a significant commitment, and we continue to reinforce our efforts to eradicate the gender pay gap.

In governance bodies like **POSH committee and Grievance Committee**, we have a diversity representation of **75% and 50% respectively**.

### Overall Employee Workforce of Runaya Group by gender



**Runaya is one of the few companies in the manufacturing sector who has more than 50% women employees and aims to achieve this target across our entire workforce including those of our partners.**

In addition, Runaya will also onboard people from all geographies of the country with a view to maintain a healthy geographical mix. Runaya Group also held various internal events as well as training sessions to celebrate the pride month while pledging to increase the number of employees from the LGBTQAI+ community. Runaya provides equal opportunities for all employees, regardless of gender, race, religion, nationality, or age, attaining gender equality remains a pivotal objective. Through consistent endeavours to attract and retain accomplished women professionals, Runaya maintains a commendable gender diversity ratio across all tiers .

## HUMAN AND LABOUR RIGHTS

At Runaya, we are firmly committed to the principles of sustainable development, with a particular focus on safeguarding and upholding human dignity. Our business operations are guided by a strong commitment to fairness and equity, emphasizing our social responsibilities as both a direct and indirect employer. In accordance with the Universal Declaration of Human Rights and other international human rights standards, we are committed to creating and delivering valuable products and ideas while respecting the diverse perspectives and individualities of our employees, utilizing them for the benefit of all. We have established the Code of Conduct and our Human Rights Policy based on the United Nations Guiding Principles on Business and Human Rights.

We actively promote fair working conditions and uphold human rights in line with both national regulations and international conventions. We take

a strong stance against any involvement in adverse human rights impacts, striving to avoid benefiting from the human rights violations caused by others.

To further our commitment, we incorporate human rights-related requirements into our contractual agreements with business partners and host governments. We conduct thorough human rights due diligence in our business processes, especially before undertaking new acquisitions, activities, or contractual engagements.

Runaya maintains a zero-tolerance policy against any form of forced, compulsory, or child labor, whether it occurs directly or through contracted labor. We champion the rights of our employees to freely associate and engage in collective bargaining. As an equal opportunity employer, we treat all employees with the utmost respect and dignity, evaluating them solely based on their performance, regardless of their race, religion, caste, gender, sexual orientation, age, or disability. In addition, we highly value and aim to preserve the culture and heritage of local communities, particularly socially vulnerable groups that might be affected by our operations.

**Zero**

Harassment and discrimination cases registered



## COMMUNITY DEVELOPMENT

We engage with our local community through our CSR project Laadli :



### INITIATIVE

Runaya’s commitment to equity and social inclusion extends to fostering gender equality, with particular attention to advancing women’s empowerment. The inception of Project ‘Laadli’ through our CSR initiatives was a strategic response to address the specific challenges preventing women’s educational completion and workforce integration.

Through our CSR approach, we aim to empower women within local communities, aligning with our broader objectives of achieving gender diversity, enhancing employee retention rates, and promoting geographic diversity, especially in Odisha’s underserved regions near the Jharsuguda Operations. However, women’s empowerment encounters formidable challenges, including high dropout rates among girls during their adolescent years and various health-related concerns such as menstrual hygiene and anemia.

The goals for Project ‘Laadli’ initiated in 2022 are two-fold:

1. Providing Equal Opportunities
2. Women Empowerment through addressing the grass root issues that hinder women from achieving their dreams.



### INTERVENTION

In view of these complexities, Runaya recognized the necessity to raise awareness among neighboring communities about the significance of education and social development, particularly for adolescent girls. Project ‘Laadli’ involved conducting a comprehensive household survey, in partnership with ‘Prayatn Sanstha,’ encompassing ten villages in the Dalki and Katikela panchayats of Jharsuguda District in 2022. The survey findings led to valuable insights and recommendations aimed at improving awareness and reducing dropout rates among adolescent girls.

Guided by these recommendations, Runaya established the following objectives for Project ‘Laadli’:

1. Increase the enrollment of girl children in government schools by addressing dropout rates.
2. Enhance the well-being of the adolescent demographic through tailored interventions.
3. Cultivate positive behavioral changes within peer groups, parents, and the broader community to enhance health and educational outcomes.

## BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES



### IMPACT

This initiative not only aims to empower young girls at the grassroots level but also aligns with Sustainable Development Goals, specifically Good Health and Well-being (SDG 3), Quality Education (SDG 4), and Gender Equality (SDG 5). The project envisions positively impacting 6,000 lives, with a significant focus on 400 adolescent girls residing in the villages of Dalki and Katikela panchayats in Jharsuguda District.



### Education

- 60 girls dropped out from a total of 153 girls due to financial condition and family issues.
  - 50 girls joined back in March- April session post counselling and meeting with families.
  - 10 girls had dropped out in June of which 8 girls have now applied for higher education.



### Healthcare

- Training sessions on menstruation followed by sanitary pad distribution.



### Sports

- Football match for 14 girls of Dalki, Purna and Banjari with guidance of coach, principals, teachers and community people.

As we move forward, our ambition is to expand the project's reach by engaging more villages and panchayats in the Jharsuguda district by 2025, subsequently equipping young women with employable skills through the involvement of peer support leaders .







# ENVIRONMENT

We are currently engaged in improving our understanding of the effects of climate change on our operational resources and are exploring Intergovernmental Panel on Climate Change (IPCC) scenarios to understand the various risks and opportunities.

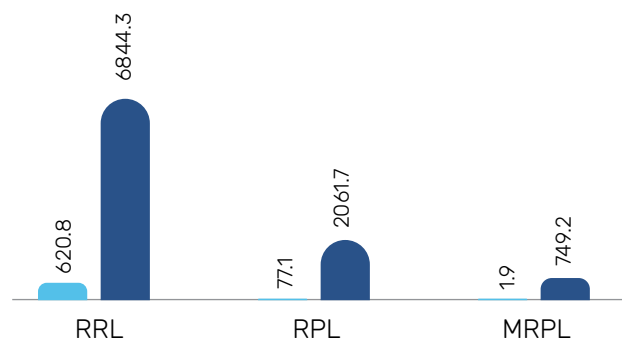
## EMISSIONS – GHG EMISSIONS AND AIR QUALITY

### GHG Emissions

We are unwavering in our commitment to a sustainable future and will continue to make consistent and substantial measures to decrease our carbon emissions. We calculate and disclose our Greenhouse Gas (GHG) inventory, which includes Scope 1 emissions (DG set emissions) and Scope 2 emissions (purchased electricity) following *The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)*, established by the World Business Council for Sustainable Development (WBCSD) and World Resource Institute (WRI). Comprehensive details of our Scope 1 and 2 emissions, as well as energy usage, are given below. We are committed to expanding our GHG inventory to encompass Scope 3 emissions. We have plans in place to gauge emissions associated with activities like procurement and travel. Over the year, our overall GHG emissions summed up to 10.4 thousand tCO<sub>2</sub>e. We also closely monitor the energy and emission intensity of our operations.

Monitoring GHG emissions not only helps us comprehend our ecological footprint but also helps us with responsible resource management. By quantifying emissions, Runaya expects to identify opportunities for efficiency improvements, innovation, and collaboration, playing a pivotal role in efforts to address climate change and uphold environmental stewardship.

**Scope 1 and Scope 2 GHG Emissions (in tCO<sub>2</sub>e)**



- Gross direct (Scope 1) GHG emissions in metric tons of CO<sub>2</sub> equivalent.
- Gross location-based energy indirect (Scope 2) GHG emissions in metric tons of CO<sub>2</sub> equivalent.

We base our calculations on a methodology, leveraging the ISO 14064 standard, for the operational period from April 1st, 2022, to March 31st, 2023, which also acts as our base year. Our emphasis on transparency and accuracy is evident as we adopt a consolidation approach grounded in operational control.

### Emission Intensity

#### GHG Emissions Intensity Ratio for Runaya Group



Note:

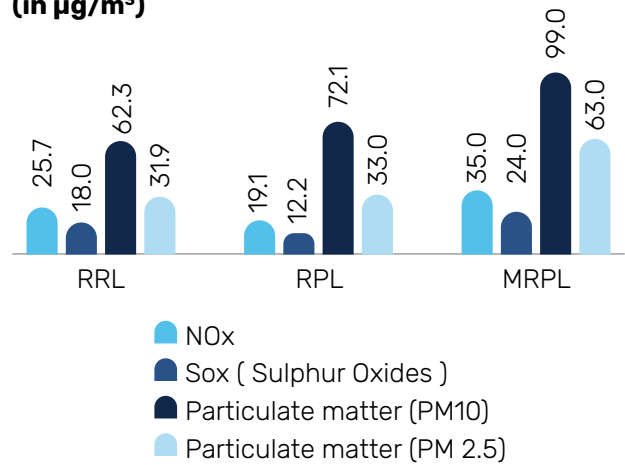
- These ratios are calculated based on production volume in metric tons.
- The scope of gases incorporated in this calculation includes CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>, NF<sub>3</sub>.

## BUILDING A POSITIVE FUTURE THROUGH SUSTAINABLE TECHNOLOGIES

### Air Quality

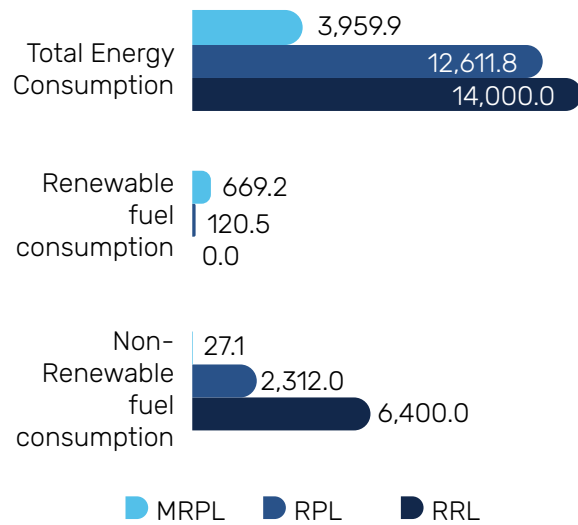
Our efforts are directed towards diminishing air emissions and their related effects through the ongoing enhancement of our operational stability and the integration of supplementary technologies whenever feasible. We have set the baseline requisites based on global standards to guarantee the effective management of emissions and their impact on air quality. This approach assures compliance and tackles possible undesirable influences on both the environment and local community. We regulate our non-GHG air emissions like sulfur dioxide, particulate matter, by adhering to stringent internal protocols and adhering to the relevant air emission regulations in the regions we operate in.

### Air Emissions (NOx, SOx, PM10 & PM2.5) (in µg/m³)



### ENERGY MANAGEMENT

Runaya operates in the processing and manufacturing business, hence energy consumption is a pivotal aspect of our commitment to sustainability and efficiency. Our approach considers diverse energy sources and their impact. Non-renewable fuel consumption, primarily involving High Speed Diesel (HSD), is prudently managed as we continuously explore avenues to optimize its utilization. On the other hand, our dedication to environmentally responsible practices shine through in our renewable fuel consumption initiatives, where we harness sustainable energy sources like solar plants to power our operations.



### Energy Intensity

**0.4 GJ/Ton**

For RRL

**4 KVAH/km**

for RPL

**0.3 GJ/Ton**

for MRPL

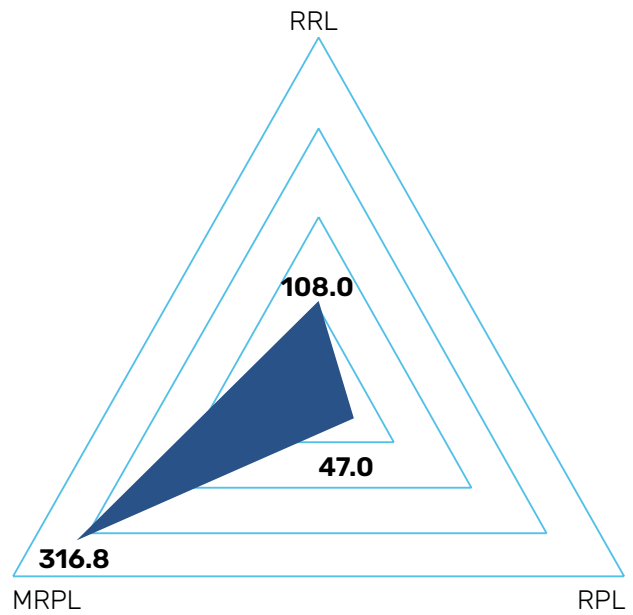
## Reduction of Energy Consumption

Runaya's commitment to energy conservation and efficiency is underscored by substantial achievements in reducing energy consumption across its three entities. Specifically, within MRPL, a reduction of 316.8 joules has been achieved, accompanied by 108.0 joules in RRL, and an additional 47.0 joules reduction in RPL.

These achievements can be attributed to a series of strategic initiatives including operational adjustments, equipment retrofitting, and optimizing processes like electricity utilization and FRP rod drying.

Through these efforts, Runaya demonstrates its proactive approach to resource management, not only enhancing operational efficiency but also aligning with sustainable practices to minimize energy footprint.

Reduction Amount in Joules



Operational Adjustments	Equipment Retrofitting	Electricity Utilization	FRP Rod Drying
Operational adjustments involve fine-tuning processes to maximize efficiency and resource utilization.	Equipment retrofitting includes upgrading machinery for improved efficiency and longevity.	Electricity utilization optimization focuses on minimizing energy waste and reducing operational expenses.	FRP rod drying process enhancements not only improve productivity but also reduce energy consumption.

## WATER MANAGEMENT

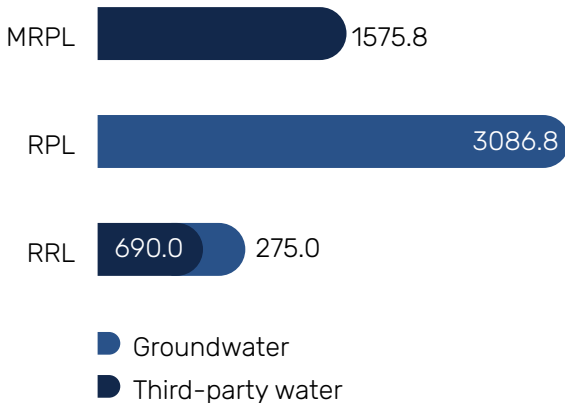
We are committed to being responsible stewards of natural resources in our business operations. A prime illustration of this is our approach to water. Water is crucial for our manufacturing processes and domestic use. As a result, we're dedicated to making the best use of water, exploring alternative and recycled sources, and responsibly managing our water discharge. Throughout the reporting period, we achieved significant advancements by lowering our water consumption, prioritizing recycling, and fostering innovative methods for reuse.

### Water Withdrawal

In FY23 our water withdrawal was 5627.5 kl. We measure and track our water usage monthly with the help of water flow meters.

MRPL operates in Bhilwada which has been classified as a water stressed area by CGWA.

### Water Withdrawal by Source (in kl)



### Water Discharge

Runaya is proud to be a leader in sustainable water management. We are committed to reducing our environmental impact and helping to ensure a sustainable future for all. All our plants are equipped with zero liquid discharge facilities, which means that we recycle and reuse all of our wastewater. This helps us to reduce our reliance on freshwater resources and protect the environment.

We also have a rainwater harvesting program in place. This program collects rainwater from our manufacturing, mining, and community initiatives. The collected water is stored and used for industrial processes, and other purposes. We are exploring ways to expand and improve our rainwater harvesting programs.

**Zero**  
Water Discharge

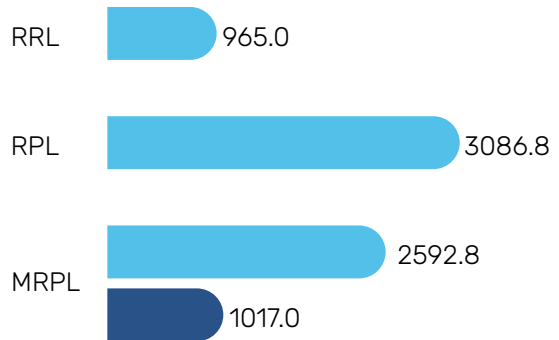
## Water Consumption

Runaya is committed to using water sustainably. In the past year, the company consumed 5.6 MI of water. To reduce our dependence on freshwater, we have implemented enhanced water recycling measures. This has helped to reduce water consumption by.

Further by implementing ZLD, we have been able to reduce water consumption from surface water substantially across all of our locations. ZLD is a water treatment process that aims to recycle and reuse all wastewater, resulting in no liquid discharge. Hence, the water effluents are recycled through our STP plants and used in our processes again.

Runaya is committed to protecting the environment and ensuring a sustainable future for all. By implementing these water conservation measures, we ensure wise usage of water across our operations.

### Total Water Consumption by Runaya Group (in kl)



- Total water consumption from all areas
- Total water consumption in areas of water stress



At RPL,  
**13%**  
 water is reused  
 in the process.

## WASTE AND HAZARDOUS MATERIALS MANAGEMENT

At Runaya we continually evaluate our operations to identify opportunities for waste management and its reduction. In the pursuit of sustainable practices and environmental responsibility, Runaya, has implemented a meticulous approach to managing aluminum Dross, a byproduct of our operations. Our unwavering commitment to minimizing waste is further demonstrated through the rigorous maintenance of daily production records.

RRL generates a quantity of Aluminium Dross, which is effectively managed through a two-step process. Initially, 40% of the metal is recovered from the dross, and subsequently, the cold dross processing system facilitates the transportation of the remaining **60%** of net weight to our briquette plant. This meticulous approach ensures the complete utilization of the raw material for creating value-added products, **leaving no room for the disposal of even a single kilogram of depleted dross.** The approach extends to maintaining a comprehensive record of daily production figures.

**Zero** Metric Tonnes  
For RRL

**193.7** Metric Tonnes  
For RPL

**497.1** Metric Tonnes  
For MRPL

### RRL

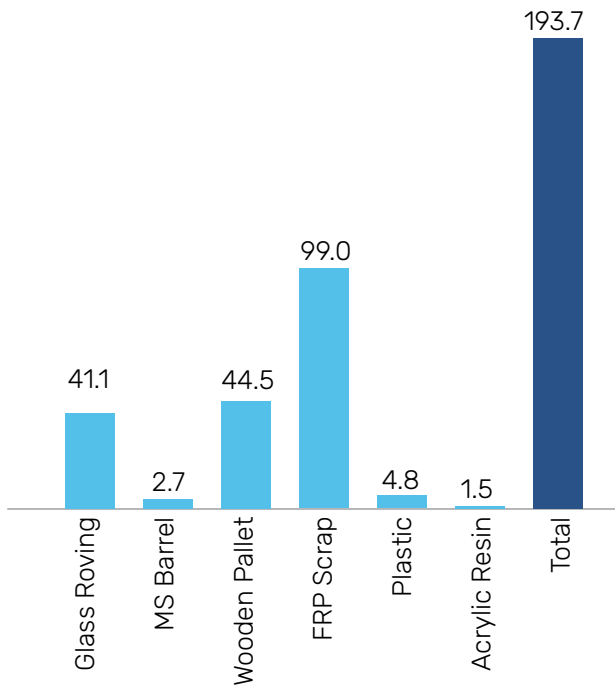
**9,638.4** Metric Tonnes

Depleted dross processed to create value-added products known as Briquettes.

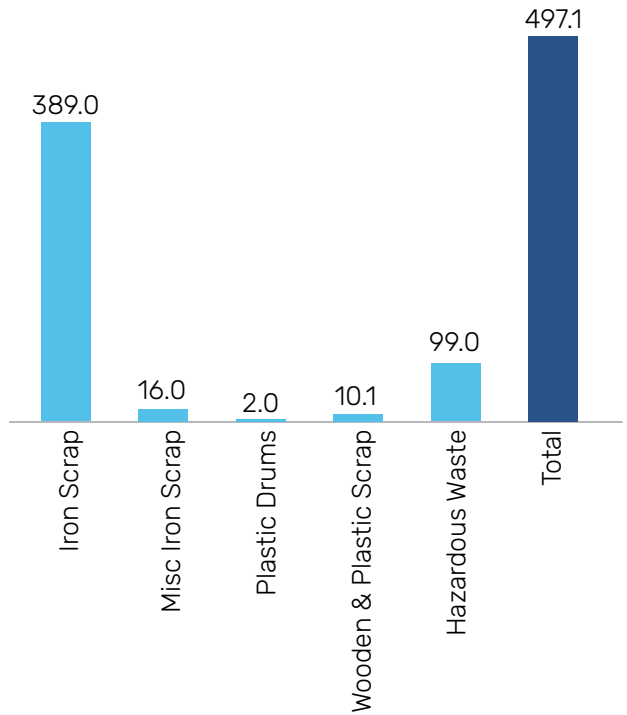
**Furthermore, through our recycling and recovery operations, we have successfully diverted a substantial metric tonnage of hazardous waste from on-site disposal.**

Additionally, Runaya has established a comprehensive system that ensures alignment with the regulations of the State Pollution Control Board of Odisha, India. This integration of operational efficiency, environmental responsibility, and regulatory compliance underscores our commitment to sustainable practices .

**Waste Generated by RPL  
(Breakdown in MT)**



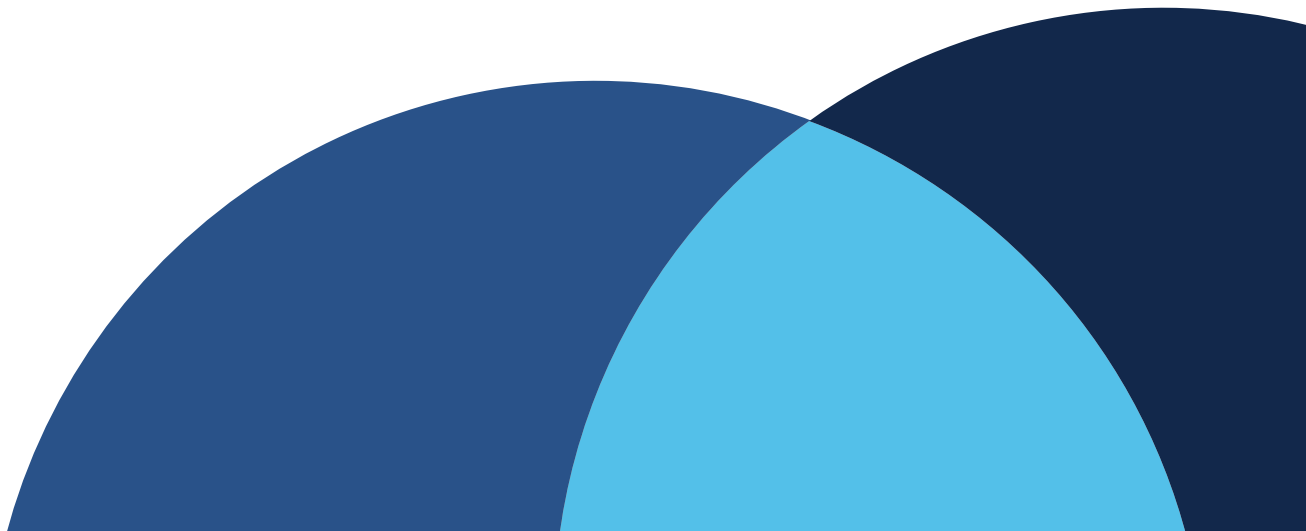
**Waste Generated by MRPL  
(Breakdown in MT)**



**Waste Generated**



We engage in a practice of selling all non-hazardous waste to third parties, who repurpose it for various constructive uses such as recycling and manufacturing other products.



## RECYCLING AND RESOURCE RECOVERY

At Runaya, we recognize the critical importance of sustainability and environmental responsibility in today's world. We are committed to making a positive impact on our planet by actively participating in recycling and resource recovery efforts. Our dedication to these initiatives is not just a matter of compliance but a core principle that guides our business practices.

### Material Recycling

**3.1%** RPL's Recycled input materials used to manufacture the organization's primary products and services.

**1200** Kilograms  
RPL's Quantity Recycled

### Circularity in Low Carbon Aluminium Value Chain

In the world's yearly production of 65 million tons of aluminum, there is a concerning byproduct: more than 1 million tons of hazardous aluminum dross are generated. India alone contributes over 100,000 metric tons to this environmental issue. This global crisis necessitates immediate action, and Runaya is at the forefront, providing a sustainable solution. We specialize in environmentally friendly aluminum dross management, safe removal, and zero-waste processing. Our unwavering commitment to zero waste and zero discharges underscores our dedication to a more sustainable future, effectively reducing the worldwide impact of aluminum waste.

#### Partnership and Proprietary Technology:

Runaya's collaboration with Vedanta Limited is fortified by its proprietary licensed TAHA technology. In FY-22, this partnership achieved a milestone by recycling nearly 21,500 tons of aluminum dross at Vedanta's Jharsuguda facility. This resulted in the recovery of 7,500 metric tons of Green Aluminum. The success of this endeavor has paved the way for Runaya's ambitious goal of reaching an Annual Aluminum Dross Processing Capacity of 60,000 tons by FY-25, leveraging its operations at Jharsuguda and Korba.



**21,500 tons**

Aluminium dross recycled in FY-22 in RRL, Jharsuguda facility.



**7,500 metric tons**

Green Aluminum Recovery



**Carbon Efficiency and Environmental Impact:**

A noteworthy achievement arising from this collaboration is the production of highly carbon-efficient aluminium. Runaya's process, certified by DNV for Restora Ultra in Q4FY22, records a mere 655 kilograms of CO2 emissions per ton of aluminium produced. In stark contrast, the traditional aluminium production route, as reported in Vedanta Limited's Integrated Report for fiscal year 2022, emits a staggering 15,600 kilograms of CO2 per ton of aluminium. This substantial reduction of 15,000 kilograms of carbon emissions per metric ton of aluminium is a testament to the environmental impact of Runaya's sustainable approach.

Runaya and Vedanta Limited partnership showcases a strong synergy of innovation, sustainability, and environmental responsibility. By recycling aluminium dross efficiently and producing carbon-efficient Aluminium, this collaboration not only tackles global environmental issues but also sets a sustainable precedent for the industry. Runaya's dedication to a greener future significantly reduces carbon emissions and promotes eco-conscious industrial practices.









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