



# SUSTANABILITY REPORT

2021-22

The Sandur Manganese & Iron Ores Limited, Sandur

# MESSAGE FROM THE LEADERSHIP



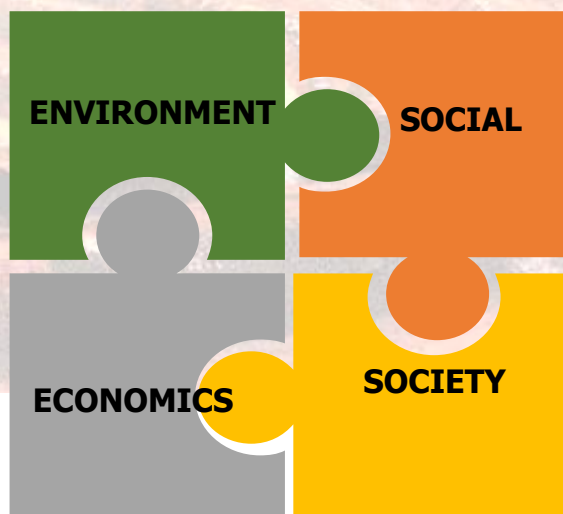




## SMIORE BUSINESS VERTICALS



**A sustainable business is purposeful, competitive, resilient and agile. It is a business that thrives throughout economic and social cycles.**





## MESSAGE FROM MANAGING DIRECTOR



As The Managing Director of SMIORE Ltd., I would like to re-iterate to a green economy and Sustainable future.

Everything humans do has impact, and mining is obviously no exception. Our mine has minimal negative effects on the local environment and the social and economic fabric of local communities. However, these impacts can be further minimized as much as possible with dedicated attention to the principles of sustainability. I am very proud of how SMIORE strives to do this in its operations.

Our commitment to Sustainable development helps us remain in long-term business.

As we work to produce minerals that are essential to national development, we also focus on making a positive difference in areas such as conservation of natural resources, Socio-economic development and local employment.

Focusing on sustainable development means we constantly challenge ourselves to do better, in every aspect of our business.

I am proud of the efforts of all our employees in making a positive contribution in things we do.

*Bahirje A Ghorpade*  
**Managing Director**

On a Global scale, we collectively experienced many challenges throughout 2021. The Covid-19 pandemic has proven to be a complex situation that has continuously evolved and, in some way, affected each one of us. We adapted to the challenges and adopted new ways to accomplish our goals while doing our best to keep both our employees and host communities safe. As an industry, many of us pulled together our resources, shared learnings and provided assistance to those in need.

I'm proud of our collective response and the team at the sandur manganese & iron ores limited for their resilience and dedication throughout. With that, i present our 2021 sustainability report.

*Bahirje A Ghorpade*



## MESSAGE FROM DIRECTOR (MINES)



**SMIORE** business strategy is to create value sustainably and operate responsibly. Our focussed approach towards sustainability is backed by strong policies and institutional frameworks that help us monitor our progress, innovate and build strong ties with stakeholders. Our future-proofing of business revolves around environment stewardship and bringing valuable stakeholder approach. There are long-term challenges in the industry that could be accentuated by an increasing demand for resources set against a backdrop of more complicated resource extraction, declining ore grades, and the growing volume of waste rock. However, our resilient business model is well equipped to face the challenges of the future.

We continue to pay unrelenting attention to safety. Notably, there were no fatal incidents anywhere in the Group and we were recipient of National Safety Award-2017 which was presented on 8 March 2022 at Vigyan Bhawan in New Delhi which shows our strong commitment and stewardship in Safety all across our operations also we were recipient of Five Star Rating award 2019 and fifth in the successive years which was awarded during December 2021.

Currently we are in a phase of transformation globally. Everyone from our investor to our customer is becoming conscious and trying to focus on the aspects of responsible consumption. As businesses navigate through changes brought in by globalization, technology, society and consumer behaviour, embedding Environment, Social, and Governance (ESG) factors into our core strategy can help us deliver long-term value.

The Indian scenario is also changing. We are gradually shifting to an initiative driven sustainability approach rather than being compliance driven.

We do have futuristic vision to do value addition for the mineral we mine for which we will come up with Beneficiation and Pelletization facilities for Iron ore thereby creating economic value for the lean grade Ores.

For Making the positive difference in our approaches we have adopted Integrated Management System in Quality, Environment, Occupational Health and Safety Management Systems.

During the year 2021-22 we delivered on our commitment in-line with our values and business strategy. The resilient strong and dedicated work force have made us achieve Responsible Mining.

**Md. Saleem**  
**Director Mines**





## Legacy of SMIORE

SMIORE is not just a company, it is a legacy. The Company was incorporated under the support and guidance of His Highness Yeshwantrao Hindurao Ghorpade, who advised his eldest son Murarirao Yeshwantrao Ghorpade to develop the manganese and iron ore mines in a scientific manner. It was his vision that led to the beginning of an era. The Sandur Manganese & Iron Ores Limited (SMIORE) was originally incorporated on 18 January 1954 as a Private Limited Company. SMIORE was converted into a Public Limited Company on 29 July 1964 and established an Electro Metallurgical Industry (Ferroalloy Plant) near Vyansakere in Hosapete taluk of Vijayanagara District. The Company had a Mining Lease over an area of 29 square miles (about 7500 hectares) with effect from 1 January 1954.

Having given up 2800 hectares in 1973, surrendered 1,500 hectares in 1993 and given up 1200 hectares in 2015, presently Company has about 2,000 hectares (1860.10 ha under Mining Lease No. 2678, which includes 1612.72 ha of forestland and 247.38 ha of non-forest revenue land and 139.20 ha of forest land under Mining Lease No. 2679). The mining leases are valid up to 31 December 2033. The mining lease areas are located in Swamimalai and Ramanamalai hill ranges of Sandur taluk in Ballari district.

In its years of operations, the Company has gone through multiple peaks and troughs, with different generations of the Ghorpade family contributing to the Company's development in varied business environments. SMIORE has not only navigated through these times, but it has done so gracefully. The Company is proud of its decades of history and believes that its strength lies in its experience, indomitable spirit and power to adapt and deliver excellence. This business that was once a royalty, then an incorporated company and finally a public listed entity, has come a long way; but what hasn't changed is the way the Company operates even today - with humility, generosity and kindness at its core.

SMIORE is of India's most integral diversified and integrated commodity producers. The cornerstone of our business still lies in systematic, safe and scientific mining. Our businesses have since expanded to cover mining, downstream facilities of ferro alloy & power, solar power and hospitality.

### Mile Stones





## About This Report

This is the 6<sup>th</sup> annual Sustainability Report of The Sandur Manganese and Iron Ore Limited in a bid to further strengthen our commitment to transparency and accountability through sustainability reporting.

2021-22 Report covers the operational performance of Mining Lease for the period from 1st April 2021 to 31st March 2022.

This Report presents information on the performances on Mining, Environment, Safety, Economic, and Social Responsibility for significant contributions to the sustainability and neighbouring communities where we operate, providing updates on the safety, environmental, social and economic issues that are of greatest interest to communities near our operations, our employees, our investors and other stakeholders. Detailed information regarding our nature of ownership, legal form and financial and operational results for the reporting period can be found in company website Investors Desk Section, 2021-22 Annual Management's Discussion and Analysis, Financial Statements are available.







## Responsible Mining

At SMIORE, our *Mission and Values* form the foundation of our sustainability approach. Our reputation as a good corporate house is central to our *Mission and Values* and vital to the long-term economic success and sustainability of our business.

### OUR MISSION

We responsibly mine Iron ore and Manganese vital to society, creating meaningful value for our stakeholders.

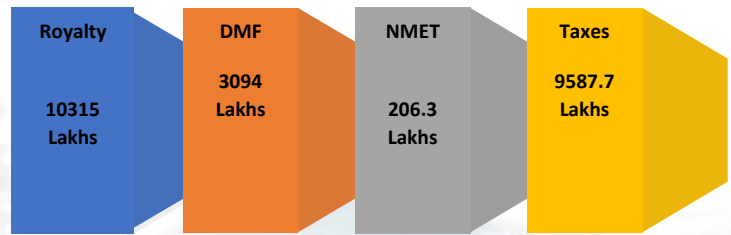
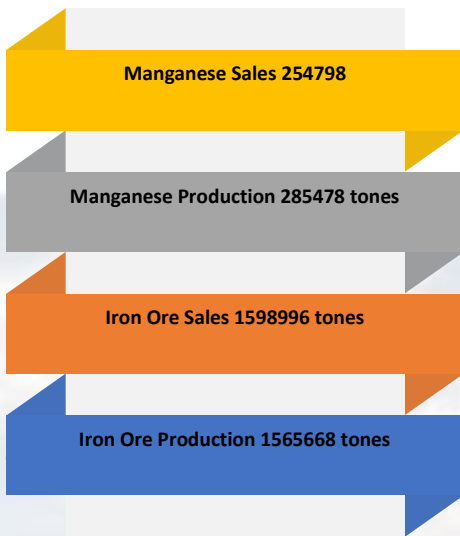
### OUR VALUES

<b>SAFETY</b>	We seek to create and foster enduring relationships and meaningful shared value with our local communities and our stakeholders through our <i>Values</i> of Safety, Respect, Integrity and Excellence.
<b>RESPECT</b>	We are committed to operating in compliance with applicable laws and regulations in all jurisdictions where we operate, and we seek to continuously improve our sustainability performance. We strive to align our policies and procedures with international best practice and guidance for economic, safety, social and environmental performance and to meet our business objectives and targets.
<b>INTEGRITY</b>	
<b>EXCELLENCE</b>	Our Integrated Management System describes our specific management commitments to responsible mining. These commitments are further developed and supported by compliance initiatives Legal and other requirements.

### Our Key Performance Indicators are

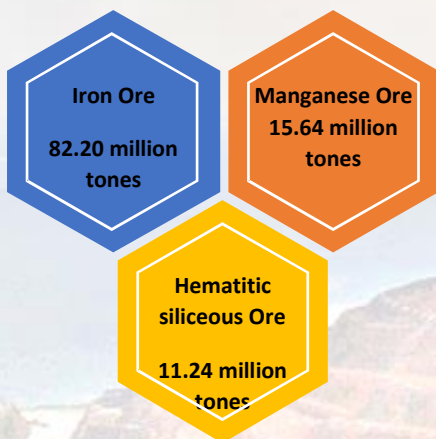
- Certified with ISO 9001:2015, ISO 14001:2015 45001:2018 Certified.
- SMIORE Received Five Star Rating Award from Ministry of Mines, Govt. of India for the year 2019-20 awarded during December 2021.
- SMIORE received National Safety Award during January 2022 for the year 2018 from Ministry of Labour and Employment, Govt of India.
- No Reportable injury or fatal accidents recorded in mining leases of 2678 & 2679.
- Production of Iron ore and Manganese in line with maximum permissible annual production fixed by CEC.
- Highest Record Sales during the year 2021-22.
- Azadi Ka Amruth Mahotsav celebrated for fortnight period.
- Compliance to SEMP prescribed by ICFRE Dehradun.
- Initiation of R&D Studies for further Scientific and Systematic Mining.



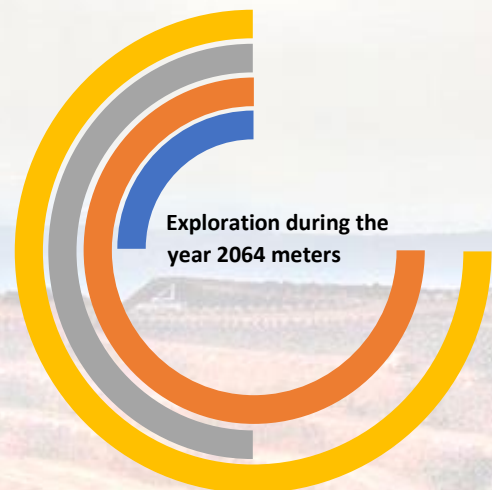


Revenue paid to Governments during

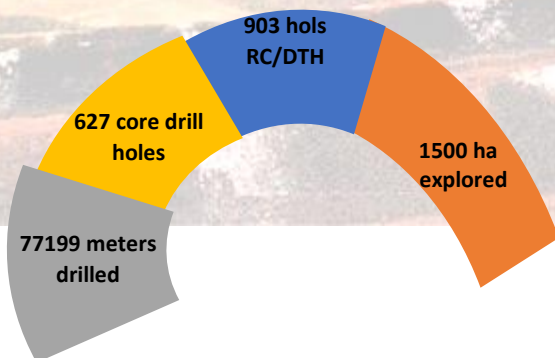
Fig from both Mining leases 2678 & 2679



Reserve base of Iron and Manganese from both mining leases 2678 & 2679 as on 31.03.2022



Exploration during the year



Exploration synopsis



Development statistics



**Scientifically and systematically developed benches in Manganese Mine**



**Scientifically and systematically developed benches Iron Ore Mine**





SMIORE has the largest private- sector manganese oremines in India. It engages in semi- mechanized, labour - intensive manganese ore mining operations, which generate large scale employment opportunities within theCompany.

SMIORE's manganese ore is known for its low phosphorus content (below 0.05%), and it has theunique reputation of being one of the finest low phosphorusmetallurgical ores, which is used in blends for producing ferroalloysand steel. A part of our mined ore is used captively in the Company's ferroalloys operations and the rest is sold out.

It is observed that –

- (a)The joint team has not found any illegality vis-a-vis the sanctioned lease boundaries.
- (b)The owners of the Lessee Company have voluntarily handed over more than 2000 HA of forest land owned by them to the State Government and which has no parallel in the State.
- © The Lessee Company has an excellent track record of undertaking mining operations in accordance with the law.

Source: CEC & Joint Team constituted by Hon'ble Supreme Court of India, 2011-2012







During the year 2021-22

- Stringent measures for COVID-19 control put in place all across Organization.
- Ensuring double dose vaccination for all employed.
- Mining was in accordance with the approved Production and Development plan IBM.
- We are qualified as Five Star Rated Mine during the assessment by Indian Bureau of Mines.
- Drone based survey of both the mining leases in compliance to Rule 34(3) of MCDR 2017 carried out.
- Development in Iron Ore was 12,52,388 tones and 65,01,092 tones in Manganese in ML No 2678 and in ML No 2679 development was 355489 tones.
- Separate stocking of mineral rejects of Iron ore ensured in ML No 2679 and during the year there were no generation of mineral rejects from ML No 2678.
- Backfilling of 6.15 ha in ML No 2678 & 2.93 ha in ML No 2679 carried out during the year.
- Safety Management system in place and implemented.
- Mock drills as part of emergency preparedness conducted.
- Use of Data Mine software for resource modelling and mine planning.
- Feasibility initiated towards setting up of 7 MTPA beneficiation plant.
- Blast vibration studies conducted during the year.
- Adequate measures of dust suppression through water tankers, sprinklers.
- Effective measures for waste dump management like retaining wall, garland drain, check dams, gulley checks, silt settling tanks, maintenance of engineering structures undertaken.
- During the year 1264.5 meters of retaining wall, 1300 meters of earthen drain and geo coir mats covering about 0.64 ha and 4 no's loose boulder check dam construction undertaken in ML No 2678. In both the leases De-silting of engineering structures like silt settling pond and check dams carried out.



*Our approach is to take SMIORE to greater heights with a vision for several decades to come, with a comprehensive strategy to achieve sustainable growth, set global benchmarks, and ensure the best corporate governance and sustainability (ESG) practices.*

#### MINING - OUR MAINSTAY

The Company takes utmost pride in being a responsible mining company. Mining operations have been the backbone of our Company ever since its inception. We operate our mines in compliance with the best international and national industry standards, and still rank among the best in the industry in terms of cost-efficiency and profitability metrics. We've time and again demonstrated well-managed operations in this business segment over various commodity and economic cycles.

There is no denying that mining has had its fair share of troubles in the past, but we've always come out stronger with our transparent business practices.

As we step into a new era, we keenly await the expansion of our mining operations, which is pending approval from relevant authorities.

Our Manganese ore capacities are expected to expand to 0.40 MTPA from current 0.28 MTPA, and our iron ore capacities are expected to expand to 3.85 MTPA from current 1.60 MTPA, which is in compliance with the parameters prescribed by the Hon'ble Supreme Court of India.

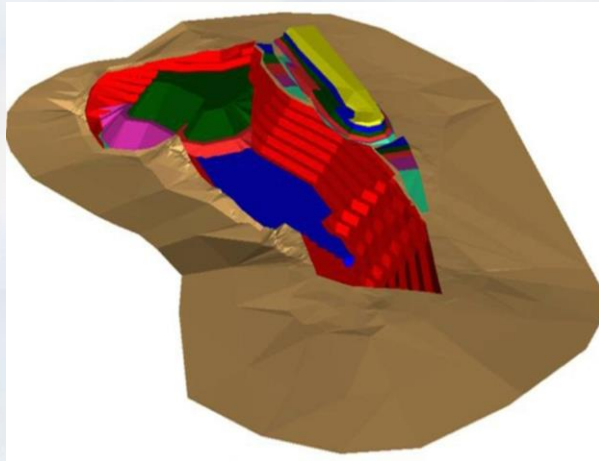






SMIOR has embraced Scientific and Systematic Mine Planning. Exploration has paved the way for taking up Scientific and Systematic Mine Planning. Recent advance technologies like DGPS Survey, survey by using Total Station and Drone are done in compliance to regulatory requirements. Geological methods of exploration by Drilling-Core, DTH & Reverse Circulatory since 2011 accounting up to 77199 meters has been drilled to explore the mineral bearing areas for Iron Ore and Manganese from both the leases.

Mining software's like Data Mine, Global Mapper are being used for Data Modelling and Resource estimation. Core Library is maintained at Mine Site. All the drill hole logs are digitised. Pit Optimisation, has helped in delivering short and long term mine planning.



DIFFERENT LITHO UNITS ENCOUNTERED IN DRILL HOLES





*We have emboldened our position as an organization and are now ready to take on monumental strides towards an innovative future.*

*SMIORE is well-positioned to capture future opportunities in the industry and believes that its transformation will further enable it to become an integrated player in the industry.*



**T.R. Raghunandan**  
**Chairman**

The Mining Operations in the Mining Lease area is being carried out for more than a century. Opencast method of Mining is being practiced, since inception. The mining operations for Manganese Ore was manual to semi-mechanized for a long time and presently the operations are mechanized, but manganese ore sorting is still continued manually. Mining operations for Iron Ore is highly mechanized. Ore bodies are sedimentary formation in nature continuing from the top as out crop & dipping to a consistent depth. The footwall is shales, phyllite & BHQ & the hanging wall is generally laterite and lateritic Iron & Manganese ore.

Generally, the benches are designed & formed parallel to the slope of the hill in the form of external box-cuts with a few pits as well as internal box-cut depending on the nature of ore bodies like dip & strike. Mining is carried out by forming open pits which are expanded laterally, horizontally as well as vertically depending on the extent of ore formation & keeping all the statutory obligations of the permissions given by Director General of Mines Safety (DGMS) & other agencies. The existing benches are of 4 to 7.5 meter in height and the width of the benches range from 7.5 to 25 meters. Benches are maintained in safe and stable form & safety bunds are formed at the edge of each bench with a minimum of 0.5 meter in height. The overall pit slopes are

maintained at about 20° to 30°, which is less than the natural angle of repose of the loose material. As the benches advance, the access roads to each bench are also modified with in the stipulated gradient permitted by the DGMS.

The approach ore transportation roads to the mine are widened & the same has been converted bituminous tarred or cement concerted with proper arrangement for drainage of water.

HEMM Deployed is having safety features like Audio Visual Alarm, Rear View Camera & Proximity warning sensors are put in place. Safe Operational procedures for all operations in the mine lease area, Emergency preparedness plan and Mock Drills are conducted.

Controlled Blasting Techniques are used for Production and Development.

Emphasis is given for separate stacking of mineral rejects of Iron Ore and Manganese in the lease area with a perspective of adding value in near future.

Reclamation and Rehabilitation of mined out areas are made in a systematic manner by backfilling and afforestation.





## STAKE HOLDER ENGAGEMENT

Over the years, Company has cultivated strong relationships with its stakeholders by implementing meaningful engagement programs.

The Company's ability to unlock and understand the major issues and concerns of its stakeholders, and its capacity to respond to their issues and concerns in a timely manner, has been key to its sustainability approach.

We keep the lines of communication between the Company and its various stakeholders open, and regularly utilize them to cull valuable insights about ongoing and emerging issues within the Company and the mining industry.

Management has identified External & Internal Issues and needs and expectation of interested parties has been addressed.

During the year 2021-22 meetings were held with District Administration, FIMI, Elected Public Representatives, Village heads and there needs and expectations were addressed.

Grievance redressal mechanism is in place at mine level to address to concerns raised by employee and public at large.

During the year no Public Grievance were raised.

The Board of the Company is supported and backed by 6 (Six) Committees which play pivotal role in decision making and organizational growth.

- i. Audit Committee
- ii. Nomination & Remuneration Committee
- iii. Stakeholders Relationship Committee
- iv. Corporate Social Responsibility Committee
- v. Sustainability Committee
- vi. Risk Management Committee



In the coming year, we will continue to priorities our multi-stakeholder business model, confident in the knowledge that it is one of the most holistic approaches to produce long-term value creation, in line with our vision and belief that responsible and sustainable business promotes exceptional performance. With a belief that we will continue to deliver what we promised.



Stakeholder	Concerns	Mode of Engagement	Response
Regulators	<ul style="list-style-type: none"> <li>Accurate disclosures</li> <li>Compliance with standards and Regulations</li> <li>Taxes and Certifications</li> </ul>	<ul style="list-style-type: none"> <li>Annual, quarterly, and monthly reports</li> <li>Audits/ Inspections</li> <li>Credibility and Certifications</li> </ul>	<ul style="list-style-type: none"> <li>Timely compliance with reports</li> <li>Adhering to strict compliance w.r.t statutes</li> </ul>
Local Government	<ul style="list-style-type: none"> <li>Environment Management</li> <li>Community Development</li> </ul>	<ul style="list-style-type: none"> <li>Credible methodology to evaluate impacts and its mitigation</li> <li>Engaging in CSR Program</li> </ul>	<ul style="list-style-type: none"> <li>Environment Audits</li> <li>CSR Reports</li> </ul>
Employees	<ul style="list-style-type: none"> <li>Balancing Work Life</li> </ul>	<ul style="list-style-type: none"> <li>Employee engagement Programs</li> </ul>	<ul style="list-style-type: none"> <li>As needed</li> </ul>
Contractors	<ul style="list-style-type: none"> <li>Man Power Availability</li> <li>Machinery Availability</li> </ul>	<ul style="list-style-type: none"> <li>Contractual agreements</li> </ul>	<ul style="list-style-type: none"> <li>Transparent Management Practices</li> </ul>
Communities	<ul style="list-style-type: none"> <li>Socio Economic Development</li> </ul>	<ul style="list-style-type: none"> <li>CSR</li> <li>Contributions to SPV &amp; DMF</li> </ul>	<ul style="list-style-type: none"> <li>Effective implementation and Monitoring</li> </ul>
Customer	<ul style="list-style-type: none"> <li>Quality Products</li> </ul>	<ul style="list-style-type: none"> <li>Adhere to Declarations and Specifications</li> </ul>	<ul style="list-style-type: none"> <li>One to One Meetings</li> </ul>
Suppliers	<ul style="list-style-type: none"> <li>Payment</li> <li>Specifications</li> </ul>	<ul style="list-style-type: none"> <li>Meetings &amp; Communications</li> </ul>	---

## Our Market and Sales

SMIORE HAD CAPTIVE CONSUMPTION OF 74,260 TONNES DURING THE REPORTING YEAR

Annual Returns to IBM

Sales was through E-auctioning of Iron ore and Manganese by Hon'ble Supreme court appointed Monitoring committee during the year 2021-22. We had 39 buyers in Iron Ore and 27 buyers in Manganese ore.

During the year 15, 98,996 MT of Iron Ore from Mining Lease No 2678 and, 2,54,799 MT of Manganese Ore from Mining Leases 2678 & 2679 were sold to prospective bidders



## Our Supply Chain

SMIORE relies on State and national networks of required to support business activities at our mines. We partner with the business to manage the supply of goods, services and information required to promote suppliers for the provision of products and services safe and responsible mining. We focus on increased service levels to customers, optimizing working capital, and to achieve success, while partnering with internal and external stakeholders to ensure SMIORE Mining's ethical standards are upheld in its pursuit of operational excellence. Guided by our Code of Conduct, Ethical Values and Anti-Corruption Policy, we expect all suppliers to hold the same standards. Due diligence measures are monitored through our vendor registration program.

Supplier numbers varied across our operations but reflect a strong focus on prioritizing local and national suppliers around where we operate.







Late. Shri M.Y. Ghorpade

*"All that we get (earn) from the soil of Sandur in one form or the other should be primarily used to benefit Sandur"*

The Company truly believes that mining leases are National assets and subject to intergenerational equity, they are not for any one organisation or generation to exploit.

## NURTURING A SAFE AND HEALTHY ENVIRONMENT FOR OUR COMMUNITIES.....

For us, at SMIORE, environmental considerations are embedded into the very DNA of our business. Our operations use best-in-class scientific techniques and processes, which are the key to sustainability. We are relentless in our endeavour to create an eco-efficient mining Organisation. This chapter details SMIORE environmental journey, which involves responsible mining, energy initiatives, air emissions, water stewardship, biodiversity commitment and SEMP.

Ensuring sustainable mining practices is therefore at the core of the Company's operations. SMIORE seeks to have a measured impact on the finite natural resources and is committed to acquiring the essential certifications and following stringent international management standards, in its pursuit to remain sustainable.

During the year 2021-22 our significant steps towards environment sustainability comprised of following.

- Phased Reclamation of mine area by means of back filling covering 9.08 ha from both the mine leases.
- Afforestation with native species covering 28 ha from both the mine leases with 108209 saplings.

- Implementing new engineering structures viz

Retaining walls, Garland Drains, Check dams

De-silting activities for Surface Water management and dump management.

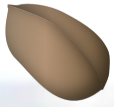




- Both the mining leases has been certified with ISO14001-2015.
- Ensuring on time legal compliances are met to regulatory authorities.
- Bio-diversity conservation within mine lease area.
- Develop and maintain Botanical gardens, herbal garden at mines.
- Celebration of Azadi Ka Amruth Mahotsav and World Environment Days.
- Contribution given towards Zoological Park at Hosapete.
- Awareness on Project Tiger, sponsoring to film on Tiger.
- Sponsoring Tree leaf printing of Coffee Table book.
- Use of green energy in operation- 10.2 % of the total Power generated during the year 2021-22 from both the leases.
- 23.5 % of total water used was recycled during the year.
- 56 % of total consent capacity of water used during the reporting year through innovative practices. Sanctioned Water capacity was 1225 m3/day against which 680 m3/day has been used.
- Implementation of recommendations of previous energy audits and energy audit during the year through BEE accredited auditor to lower the carbon foot print.

- Ground water level monitoring through network of piezometers established in the mine lease area.
- Forest Fire Line preparation and Management.
- Ensuring energy efficient HEMM, DG Sets, Tippers thereby reducing the carbon footprint.
- Initiating construction of downhill conveyor to
- Environment monitoring of AAQM, Surface, Ground water quality, Noise in both Core and buffer zone through NABET accredited and MoEF&CC recognized laboratory. All the monitored values of AAQM, Stack emissions, Parameters of Surface Water, Ground water, Noise are well within the prescribed standards/tolerance limits set forth by regulatory authorities.
- In-house nursery with annual capacity of 50,000 saplings.
- Establish seed bank repository of native species.
- Vermi Composting and using it in afforestation.
- Post afforestation care by watering through drip irrigation, sprinklers, rain guns. Scrapping and hoeing around saplings planted.
- De-silting of various engineering structures carried out during the year 2021-22.
- Geo-coir mats have been layed on in-active dump terraces covering 8500 m<sup>2</sup> during the year.
- Ensuring proper collection, handling and disposal of Hazardous waste to recyclers.
- During the year 2021-22, 2.576 kilo liters were generated and disposed to authorized registered recyclers.





**In-house  
nursery of  
50,000 sapling  
capacity**



**54.67 ha of  
green belt safety  
zone maintained**



**25.15 ha of  
mined out pit  
back filled**

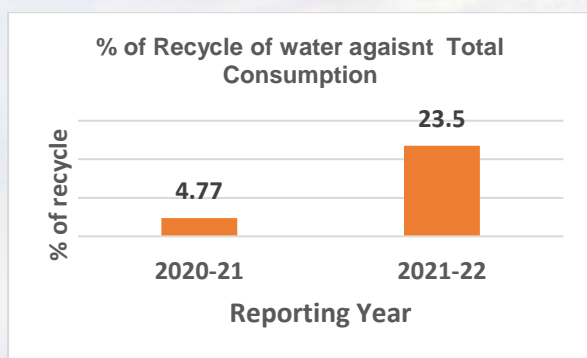
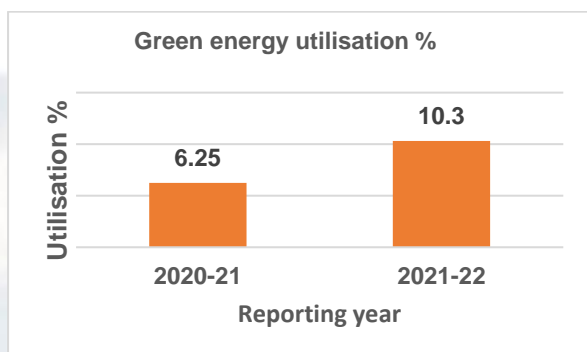


**140 ha of waste  
dumps reclaimed**



**+38 lakh saplings  
planted**





**Concept of Reduce, Recycle and Re-use put in practise for conservation.**



### **SUPPLEMENTARY ENVIRONMENT MANAGEMENT PLANS (SEMP)**

SMIORE's mining lease land is about 2000 hectares, and about 1753 hectares of this is forest land.

Over the years, the Company has developed and nurtured tree plantations in about 250 hectares of this valuable mining area. These plantations are supported by a dedicated nursery, which provides saplings regularly. In the last 35 years, over 38 lakh trees have been planted in our two mining leases, and nearly 10,000 bamboo trees have been planted for reclamation of land - which in turn has become a model site for plantation drives.

SMIORE's mining lease lies in hilly terrain, and to prevent soil erosion, nearby lakes from being silted and to contain dumps from being washed away by rains, the Company is engaged in regular environmental protection work which includes constructing several check dams, gully plugs, drains, toe walls, etc.

The Company has also taken steps to recharge ground water through rainwater harvesting methods. The water stored in the harvesting pits is being used for dust suppression and green belt development.





## Bio-Diversity Conservation

Efforts has been made towards conservation by conserving the flora and fauna within the lease area. A separate enmarked area of 2.54 ha has been demarcated and maintained as bio-diversity conservation area. This Bio-Diversity conservational area has facilitated and act as germplasm reserve for collection of seeds, seedlings, propagules for raising seedlings at nursery.

The area has dense canopy of vegetation and RET species like *Santalum album* and *Celastrus paniculatus* are seen here along with plantation of medicinal importance which are naturally occurring in the area.

Apart from this steps has been taken by developing and maintaining botanical garden, herbal garden at various parts of mine lease. These span an area of 2.71 ha.

## Ground Water Regime

The ground water availability in the area is reasonably good, which is observed from number of open dug wells as well as tube wells. SMIORE is also using the ground water for drinking and domestic use for colony after RO Filtering.

In the buffer zone average depth of open well in range from 8-22 meters, water levels are generally at 4-6 meters below the ground level. In tube wells also, water levels are measured through piezometers and found no much difference in water level from one season to other.

Piezometers for monitoring water levels and water quality in Core area has been established and water levels are recorded in buffer zone also.

Monitoring ground water levels and water quality regularly in Buffer area and Core area from the existing observation wells are carried out. The monitored parameters are well within the prescribed limits.

During the reporting year, de-silting of existing rain water harvesting pits, 4 new loose boulder check dams were taken up within the mining lease area

Adequate engineering structures like gully plugs, check dams, rain water harvesting pits has been developed in the mine lease for improving the augmentation of ground water.

Roof top rainwater harvesting structures has been established at schools, guest house and at office for harnessing rainwater.











## Implementation of Bio-Engineering Structures







At SMIORE, we believe everybody, everywhere should come home safe at the end of their working day. Every single day.

## Health & Safety

In 2021-22, we placed a renewed emphasis on safety. We continued our work towards eliminating fatalities and addressing systemic safety risks across our operations, aligned with our Safety Management System, Vocational Trainings which supports us to do the right work, at the right time, in the right way, to deliver safe and responsible production. We also increased our focus on building safety capability and supporting the right safety behaviours.

Recipient of National Safety Award 2017 conferred in March 2022

No Fatalities during 2021-22

No Major reportable injury during 2021-22

590 trainings at Vocational Training Center

Mining Lease No 2678



Total Man Power 1690



Total Local Man Power 1687



Total Skilled 661  
Total UnSkilled-1029



TOTAL MANNED DAYS IN ML NO 2678-621886  
TOTAL MANNED DAYS IN ML NO 2679-33181

Mining Lease No 2679



Total Man Power 135



Total Local Man Power 135



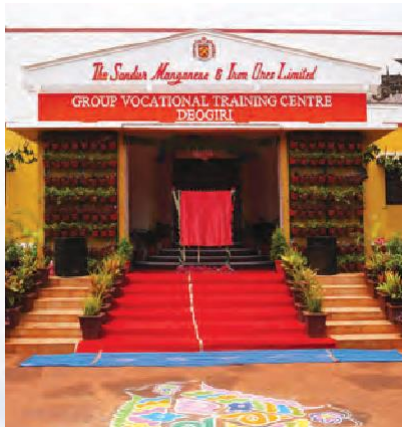
Total Skilled 48  
Total Unskilled 87





**Creating a safe place to work**

Continuing the improvement in our safety performance is dependent on our people and how they are enabled to work safely. It also requires a holistic approach to understanding safety challenges, SMIORE has learnt from the past, and has provided Safer work places for employees.



## Three Mock Drills and 8560 hours of in-house on the job training during RY.

Hazard Identification and Risk Assessment has paved us the way to have effective Safety Management system in place. Evaluation of HIRA is done for all the activities carried out in the mine area and hierarchy of controls are established in mitigating the hazards. Evaluation of Risks and Opportunities as a part of Integrated Management Systems has made us to diligently plan and establish controls for the risks arising in carrying out business.

**IMPACT OF COVID-19 PANDEMIC**

The COVID 19 pandemic has emerged as biggest risk nationally and globally. The outbreak which started impacting and damaging the health, business, trade and lives of people negatively during the financial year 2021-2022 continued affecting the same in the current financial year also. Effective risk management were planned to tackle challenges from COVID-19 and it was ensured that all our employees are fully vaccinated.

The outbreak seriously impacted physical and emotional wellbeing of the people across the country and worldwide. Due to series of effort by Union and State Governments, lower number of daily infections, and adherence of COVID appropriate behaviour by people, the emergence of 2nd wave during April 2021 and

Lock Down restrictions by state government brought bigger plight in the lives of citizens, Strong will power, effective Covid-19 risk mitigation helped us as organisation not to deter productivity of organisation.

During the year 202 employees have under gone Initial medical examination and 769 employees has undergone Periodic Medical examination at company run hospital Arogya which has been certified under OHS by DGMS

### **Our approach and policies Our Safety, Health and Environment (SHE) Policy**

Aligned with our Purpose, Values and internationally recognised SHE standards (ISO 45001 and 14001), the SHE Policy embodies three guiding principles

Zero Mind set-We apply hierarchy of eliminating, avoiding, minimising, mitigating the impacts and risks arising from our activities.

No repeats: We take necessary steps continuously learn from SHE incidents and prevent them from reoccurring.

Follow Standards - We apply common non-negotiable minimum standards and procedures to follow across the group.

Mock drills, daily safety talks, tool box meetings are best practices in safety which has helped us in

*PUBLIC GIEVANCE REDRESSAL  
MECHANSIM AND COMPLIANCE TO  
VISHAKA COMMITTEE ARE PART OF  
INTEGRATED REPORTING*

achieving objective of Zero accidents during the year. These initiatives has helped us to enhance safety awareness among workers. Effective participation during Mines Safety Observance week and Mines Environment and Mineral Conservation weeks has helped us to demonstrate the best practices and win many awards during the year.

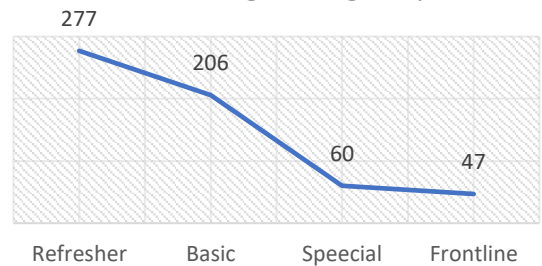


Third Party Environment Audits from MoEF&CC recognised laboratory, Energy Audits through BEE certified lead auditors are conducted in the mining leases and compliances are maintained. Compliances with respect to various Regulatory authorities viz MoEF&CC, DGMS, KSPCB, IBM, PESO, MoL&FM, are filed ontime under various statutes and governing laws.

SMIOR has these nine principles to which adherences are met

Principle 1:	Ethics Policy; Code of Conduct for Directors and Senior Management and Employees; Vigil Mechanism / Whistle-Blower Policy; Code of Conduct to Regulate, Monitor and Reporting of Trading by Designated Persons and their immediate relatives; Code of Practices and Procedures for Fair Disclosure of Unpublished Price Sensitive Information
Principle 2:	Tryst with SMIOR – An informal Will of M. Y. Ghorpade; Quality, Environmental, Occupational Health and Safety (QEOHS) Policy
Principle 3:	Human Resource (HR) Policies; Quality, Environmental, Occupational Health and Safety (QEOHS) Policy; Policy on Prevention of Sexual Harassment
Principle 4:	Corporate Social Responsibility Policy; Tryst with SMIOR – An informal Will of M. Y. Ghorpade; Policy on Prevention of Sexual Harassment
Principle 5:	HR Policies; Quality Environmental Occupational Health and Safety (QEOHS) Policy; Policy on Prevention of Sexual Harassment
Principle 6:	Quality Environmental Occupational Health and Safety (QEOHS) Policy; Environmental Clearances for Mines and Plant; Supplementary Environment Mining Plan for mines
Principle 7:	Quality Environmental Occupational Health and Safety (QEOHS) Policy
Principle 8:	Corporate Social Responsibility Policy; Tryst with SMIOR – An informal Will of M. Y. Ghorpade
Principle 9:	Quality Environmental Occupational Health and Safety (QEOHS) Policy

No of Trainings during the year







## Corporate Social Responsibility

### AN ORGANISATION BEYOND BUSINESS

*“All that we get (earn) from the soil of Sandur in one form or the other should be primarily used to benefit Sandur”*

**Murarirao Yeshwantrao Ghorpade**

SMIORE's strong values and principles are rooted in its legacy and the ethos of this family. The Company believes in inclusive growth and it effectively reaches out to the underprivileged communities and addresses their challenges to improve their quality of life. Inspired from its rich heritage and strong parentage, SMIORE takes pride in being a responsible mining company, laying emphasis on scientific mining, safety, afforestation and environment protection. Over the last six decades, the Company has undertaken several measures to improve the quality of education, healthcare, sanitation, community development, housing, environment and infrastructure.

#### EMPLOYEE WELL- BEING

Late Ruler and Founder Y.R. Ghorpade, and then M.Y. Ghorpade, at the helm of affairs from the very inception of the Company, have unflinchingly striven to give every employee a sense of belonging, security and above all, affection. SMIORE believes that its employees are at the heart of its business and that it is them who must be complemented for the sustenance of the business. The Company over these years has built a strong relationship with its employees and considers them a part of the extended family of SMIORE. Some of the welfare programs for the SMIORE employees are:

#### Food Security Scheme

SMIORE provides monthly packets of essential food items to all its Employees at the price points of 1972. A food package for a family of 5 costs ₹145 whereas its actual cost today is ₹3,500. The Company absorbs the balance cost. The Company has undertaken this activity over the last five decades and believes that this subsidy insulates its employees from the inflation costs and protects their real-income.

#### Subsidized LPG Cylinder

To prevent cutting of trees by the employees for fuel, SMIORE has been providing subsidized LPG cylinders (with 90% subsidy) to a large category of employees. Effectively an employee pays only ₹49 per cylinder.

#### Housing Loan Subsidy

The Company encourages its employees to build their own homes, and it extends subsidies on housing loans for the same. An employee effectively pays 1% interest and the balance is borne by the Company. Other employee welfare activities include – cash allowances, cloth subsidy, marriage and festival gifts, medical care, sickness benefits, education and training facilities, housing & electricity, to name a few.

## COMMUNITY DEVELOPMENT

Development of the area, maintenance of social and communal harmony, nurturing of cultural heritage, traditions and fine art, and protection of the Indian family values, have always been at the heart and core of the ethos and philosophy of the Ghorpade family and SMIORE. The Company has always been and will continue to be managed and run with the same ethos of good governance, fair-play and righteousness. The Company believes that its main accumulation of wealth over the last six decades of its existence has been its “goodwill”.

Over the decades, SMIORE has consistently done its bit for the welfare of its communities.





## Education

- Support to educational institutions, Primary Schools, High Schools, Pre-University Colleges and a Polytechnic, with a population of about 5,500 students and about 250 teachers
- During the year new construction of English medium school at Deogiri undertaken
- Providing educational scholarships to needy and meritorious students
- Providing vocational training for better employability to local girls and boys in trades such as electrical wiring, TV Repair, welding, fitting, plumbing, carpentry, masonry, horticulture and computer operation
- Aid to Special Training Centre for rural children's education and prevention of child labour; cash incentives are provided to parents for sending their children to schools
- Mid-day meals for about 1,200 school children in neighboring schools
- Free School bus services to College and School children



## Health

- Dispensaries and hospitals in employee colonies and an almost full-fledged hospital in Sandur, with special emphasis on eye care, women and child care
- Arogya hospital at Sandur with state of art facility for in-patient care and medication
- Ambulance facilities at Deogiri, SB Halli, Sandur
- Conducting regular specialty treatment camps by expert doctors
- Free eye camps 3 to 4 times annually
- Providing financial help and arrangement for medical care for patients from low-income families, in case of any major ailment



## Infrastructure Development

- Contributions for development works in Bellary District
- Repair and Construction of roads
- A multipurpose hall, Adarsha Community Centre, provided almost free of charge to employees and locals of Sandur, for marriages and other events.
- During the year 192 housing quarters were constructed at Deogiri and Subbarayanahalli.







### Skill Development

- Support to the Sandur Kushala Kala Kendra (SKKK) for nurturing traditional art and craft and for creation of opportunities for supplementary income, for the dependents of employees and local artisans, especially tribal and backward women of the area

### Livelihood improvement

- SMIORE provides monthly packets of essential food items to all its Employees at the price points of 1972. A food package for a family of 5 costs ₹145 whereas its actual cost today is ₹3,500. The Company absorbs the balance cost. The Company has undertaken this activity over the last five decades and believes that this subsidy insulates its employees from the inflation costs and protects their real-income.

### Open Defecation Free

- In line with the Swatchh Bharat Mission company is proactively involved in constructing and building of individual house hold toilets, community toilet blocks at Deogiri, Kammaturu, SB Halli, Narayanpura, Swamihalli, Ramghad, to make these villages ODF. More than 2500 toilets have been constructed and maintained since 2012.

### Recreation and Cultural Interests

- Emphasis has been given in protecting cultural interests of various communities in the villages and contributions are made for festivities, fairs, encouragement to Sports,

### Support to Social Causes

- As a part of continued journey in Wild Life management to promote activities concerning wild life, during the year contribution to zoological park at Hosapete, Sponsoring for Project Tiger in collaboration with Karnataka Forest Department.
- Environment Management in Buffer area by means of dust suppression, enriching green belt, forest fire line making, were taken up during the year.











## CSR Expenditures 2021-22

### M.L. No 2678

Activity	Amount in INR
Water Supply (In Rupees)	2,82,74,830
Transport (In Rupees)	1,27,39,113.00
Health (In Rupees)	1,15,93,109.00
Sanitation (In Rupees)	7,54,598.00
Education (In Rupees)	34941275.00
Recreation Facility (In Rupees)	38730663.00
Employment (In Rupees)	94,28,272.00
Housing (In Rupees)	32,72,74,717.00
Infrastructure (In Rupees)	14,58,339.00
Environment Management	64,24,529 .00
Others- Skill Development	20480589.00
Others- Livelihood and Socio-Economic Standard improvement	9,87,34,316.00
<b>Total</b>	<b>58,44,09,821</b>

### M.L. No 2679

Activity	Amount in INR
Drinking Water (In Rupees)	4,000
Transport (In Rupees)	57,000
Health (In Rupees)	2,28,000
Sanitation (In Rupees)	3,000
Education (In Rupees)	1,42,000
Recreation Facility (In Rupees)	1,61,053
Others- Skill Development	82,000
Others- Livelihood and Socio-Economic Standard improvement	3,97,000
<b>Total</b>	<b>10,74,053</b>

## Value Addition

### Ferroalloys

The Company began its journey in the Ferroalloys business in 1966, shortly after it was listed on BSE. SMIORE commissioned an Electro Metallurgical plant at Vyasnakere, Karnataka, in 1968 and began its operations.

Historically the Ferroalloys segment has been turbulent for several reasons, mainly the availability and price of power in India. Due to inadequate supply of power from the State Electricity Board, and unviable rates, the Company's Ferroalloys operations became unviable in the 1990's and had to be shut temporarily between 2000-2007.

Later, the Company established a 32 MW thermal power plant (shifted to the Coke and Energy segment after commissioning of Waste Heat Recovery Boilers in FY21) to meet its power needs. In FY21, to further address the cost-feasibility of power generation, the Company commissioned a Waste Heat Recovery Boiler (WHRB) plant. This plant coupled with the Power Generation plant produces electricity as a by-product.

After the recent capital expenditure, the Company has a cumulative Ferroalloy capacity of 48,000 TPA,. The Company primarily produces Silicomanganese in this segment.

### Coke and Energy

The Coke Oven plant is the most recent addition to SMIORE's operations. It consists of 4 batteries and has a cumulative capacity of 0.4 MTPA. This expansion commenced in March 2018 and was fully-commissioned on 18 January 2021. The setting up of this plant fuels the long-term goal of the Company to set up a 1 MTPA steel plant.

With these plant expansions, the Company has enabled a feasible power generation set up to support the Ferroalloys operations. It has also enabled backward integration of Coke for future steel expansion.







**As a company, we are committed and stand by Principles of Sustainability and contribute significantly in achieving objectives and targets under Sustainable Development Framework.**

**THE SANDUR MANGANESE & IRON ORES LIMITED**

**CIN: L85110KA1954PLC000759**

**E: [investors@sandurgroup.com](mailto:investors@sandurgroup.com)**

**Registered Office**

**SATYALAYA**

**Door No.266 (Old No.80) Behind Taluka Office,**

**Ward No.1 Palace Road**

**Sandur – 583 119**

**Ballari District, Karnataka**

**T: +91 83952 60301**

**F: +91 83952 60473**

**Corporate Office 'Sandur House' No.9, Bellary**

**Road Sadashivanagar**

**Bengaluru – 560 080 Karnataka, India**

**T: +91 80 4152 0176/ 80**

**F: +91 80 4152 0182**

