



## *The Sandur Manganese & Iron Ores Limited*

**SMIORE ML NO-2580, RMK MINE, DUMP NO D-18, GULLY  
PLUGS, DIMENSION-7.50X1.50X1.00=11.25M<sup>3</sup>,  
DATE OF COMPLETION-20.09.2012**



**SMIORE ML NO-2580, RMK MINE, DUMP NO D-18, GULLY  
PLUGS, DIMENSION-6.20X1.50X1.00=9.30M<sup>3</sup>,  
DATE OF COMPLETION-30.09.2012**







# *The Sandur Manganese & Iron Ores Limited*

**SMIORE, ML NO. 2580, RMK MINE DUMP NO D 20,  
PIPE LINE WORK IN PROGRESS DT:16.05.2014**







# *The Sandur Manganese & Iron Ores Limited*

**SMIORE, ML NO. 2580, RMK MINE DUMP NO D 20,  
PIPE LINE WORK IN PROGRESS DT:16.05.2014**







# *The Sandur Manganese & Iron Ores Limited*

**SMIORE, ML NO. 2580, RMK MINE DUMP NO D 20,  
PIPE LINE WORK IN PROGRESS DT:16.05.2014**







# *The Sandur Manganese & Iron Ores Limited*

**SMIORE, ML NO. 2580, KTIO MINE DUMP NO D 9, PIPE LINE  
WORK IN PROGRESS, DT:17.04.2014**







*The Sandur Manganese & Iron Ores Limited*

# **CORPORATE SOCIAL RESPONSIBILITY ACTIVITIES BY SMIORE**





# *The Sandur Manganese & Iron Ores Limited*

## **THE SANDUR MANGANESE & IRON ORES LIMITED, DEOGIRI (P), SANDUR (T), BELLARY (D) - 583112**

### **WELFARE AMENITIES**

The Company is providing a good number of welfare schemes apart from the statutory welfare amenities to its employees which are unique for any organization. The following are the details:

#### **A. ANON STATUTORY WELFARE AMENITIES:**

##### **1. SUBSIDISED RATION SCHEME:**

###### **a) Subsidised Ration:**

The policy of the company is to ensure that essential commodities are made available to all the employees at a stable price. A scheme to supply fixed quantities of essential commodities such as rice, jowar, toordal, jaggery, chilies and groundnut oil was introduced in 1972. Each employee is given a ration card, which entitles him to get one unit of subsidized ration consisting of the following commodities every month at 1974 prices.

###### **Free Cloth:**

Free cloth distribution scheme was introduced in 1990. When the scheme was started cloth worth Rs.400/- was being given to each employee and it is now enhanced based on category. Varieties of cloth are distributed through the SMIORE Employees' Co-operative society.

SLNo.	Category	Cloth (Per Annum) (Rs.)
1.	ASST. GM / SR. MANAGER / MANAGER	6250
2.	DY. MANAGER/ OFFICER I & II	5000
3.	SUPERVISORY I & II	3750
4.	SKILLED & BELOW	2500
5.	TEMPORARY EMPLOYEES	2000

### **Company Scholarship Scheme for the Employees' Children:**

This scholarship scheme was introduced in the year 1981 with an intention to help SMIORE employees to get their children educated not only for academic but also for professional courses. The criteria to avail this scholarship is the student must score minimum 50% of marks in the examination. This scholarship is limited to only two children in a family. It is a matter of great satisfaction that hundreds of students avail this benefit under the scheme every year. The class/ course and the amount to scholarship amount granted are as under.

SL NO	COURSES	Amount in RS./Per annum
1	PUC	2500.00
2	Diploma Courses	19850.00
3	All Degree courses	10000.00
4	Degree course in law & Fashion Design	20000.00
5	All Post-graduation courses	25000.00
6	<b><u>Professional Courses</u></b>	
	a) Engineering	41590.00
	b) Dental	35000.00
	c) Medical	46000.00

Annually the amount is being required base on the government fee structure





# *The Sandur Manganese & Iron Ores Limited*

## **HOUSING**

- \* Two colonies having 771 houses
- \* Free accommodation
- \* Free water
- \* Hot water supply is provided to colonies through solar heating system
- \* Solar lighting is provided for colony streets and solar high mast lights are provided at all road junctions
- \* Free Electric Power Supply is provided for all the houses.
- \* To mitigate the environmental pollution by avoiding the use of fire wood, kerosene & charcoal, subsidized LPG is given to all employees.

The details of LPG subsidy are as below:

Category	Cost of the cylinder Rs.	Subsidy Percentage	Subsidy amount per cylinder Rs.	Net payable by the employee Rs.
Supervisory	421.00	46	193.66	227.34
Skilled	421.00	60	252.60	168.40
Semi Skilled	421.00	63	265.23	155.77
Unskilled	421.00	73	307.33	113.67

- \* HRA for Employees
- \* Interest subsidy on housing loans

Area of building the house	Employee has to bear interest of
Sandur Taluk	1%
Bellary District	2%
Karnataka	3%
Outside	4%

## **13. COMPANY'S SCHOLARSHIPS**

Company Scholarship to those who are studying in SANDUR RESIDENTIAL COMPOSITE JUNIOR COLLEGE:

The employees' children are selected by way of competitive examination (written and oral) to study in the Sandur Residential Schools and they are eligible for exemption in tuition fees as given below:

- 1) Children of supervisory and below categories 60% of annual fees (Tuition and Hostel Fees)
  - 2) Children of officers and above categories 40 % annual fees (Tuition and Hostel Fees)
- b) The Company has instituted "Golden Jubilee Scholarship" on the occasion of its Golden Jubilee year to the employees' children to be awarded on merit-cum-means basis.
- c) Educational Advance: Recoverable interest free advance of Rs.500/- each every year is given to the employees of supervisory and below categories to enable them to meet the educational expenditure on their children. Interest free loan of Rs.5,000/- per year is given for professional courses which will be recovered in 12 monthly installments.

## **14. SAFETY ITEMS:**

### **a) Uniforms:**

Terry-cot 3 pairs of uniforms in 2 years are issued to certain categories of employees like drivers, cleaners, drillers, security guards etc.

### **b) Raincoats:**

Raincoats are issued to certain categories of employees especially to those who work in the field.



















## **15. EX-GRATIA FOR FUNERAL EXPENSES:**

When an employee dies while on service, the Management sanctions Rs.5000/- to the legal heir to meet the funeral expenses of the employee





# *The Sandur Manganese & Iron Ores Limited*

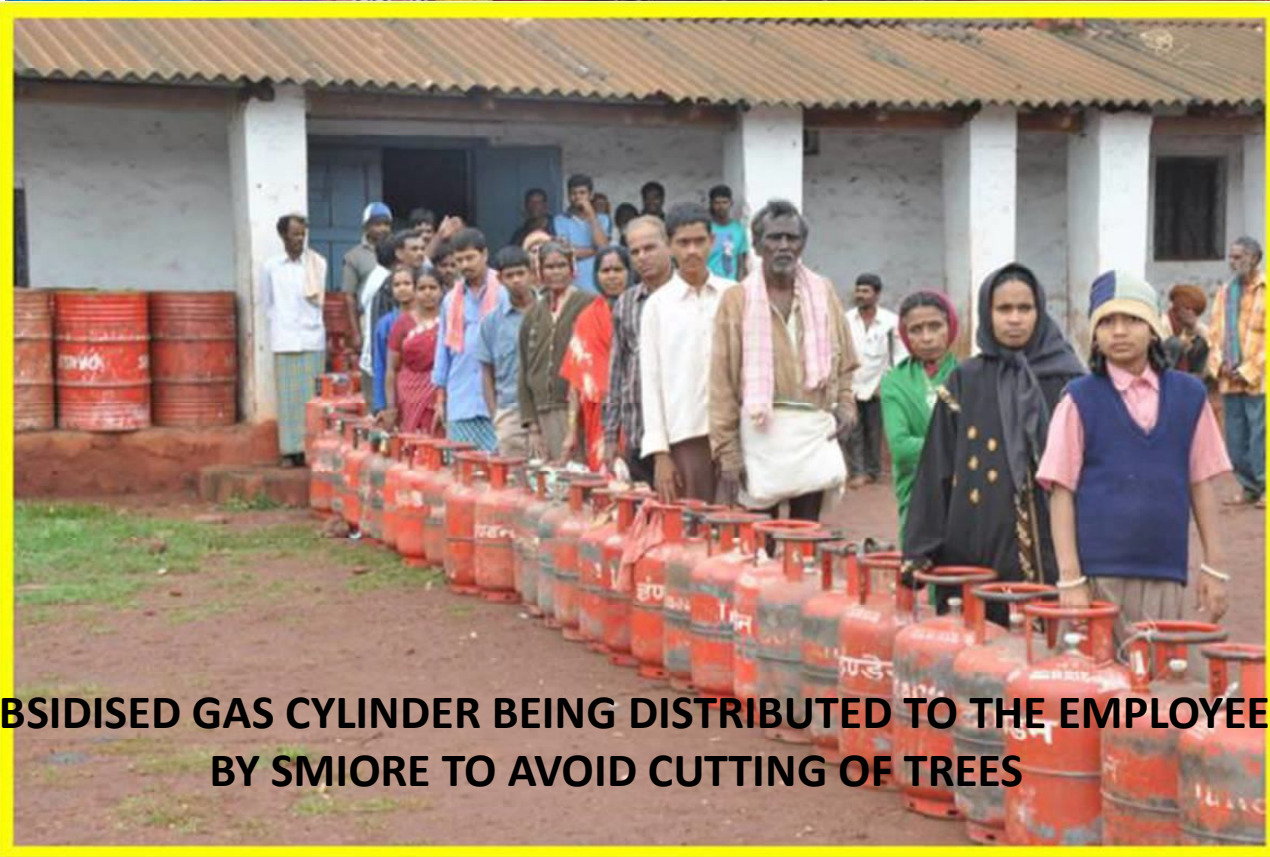
SUBSIDISED FOOD GRAINS FOR EMPLOYEES					
SL NO.	Food Grains	Subsidised Rate	Subsidised Quantity	Market Quantity	Market Rate
		Rs. Per Kg	Issued		Rs. Per Kg
1	Rice	2.00	25 Kg 	1 Kg 	22.43
2	Jowar	1.00	20 Kg 	1 Kg 	34.35
3	Wheat	1.75	5 Kg 	1 Kg 	19.49
4	Toor Dal	2.20	3 Kg 	1 Kg 	54.18
5	Dry Chillies	4.60	1 Kg 	1 Kg 	110.83
6	Jaggery	2.00	2 Kg 	1 Kg 	32.63
7	Groundnut Oil	6.50	2 Ltr's 	1 Kg 	89.30
8	Soji (Rava)	3.00	2 Kg 	1 Kg 	22.66
9	Gram Dall	2.00	1 Kg 	1 Kg 	35.14





## *The Sandur Manganese & Iron Ores Limited*

**Between 18 to 20<sup>th</sup> of every month Subsidised Ration is distributed to all employees, and others(2500 cards)**

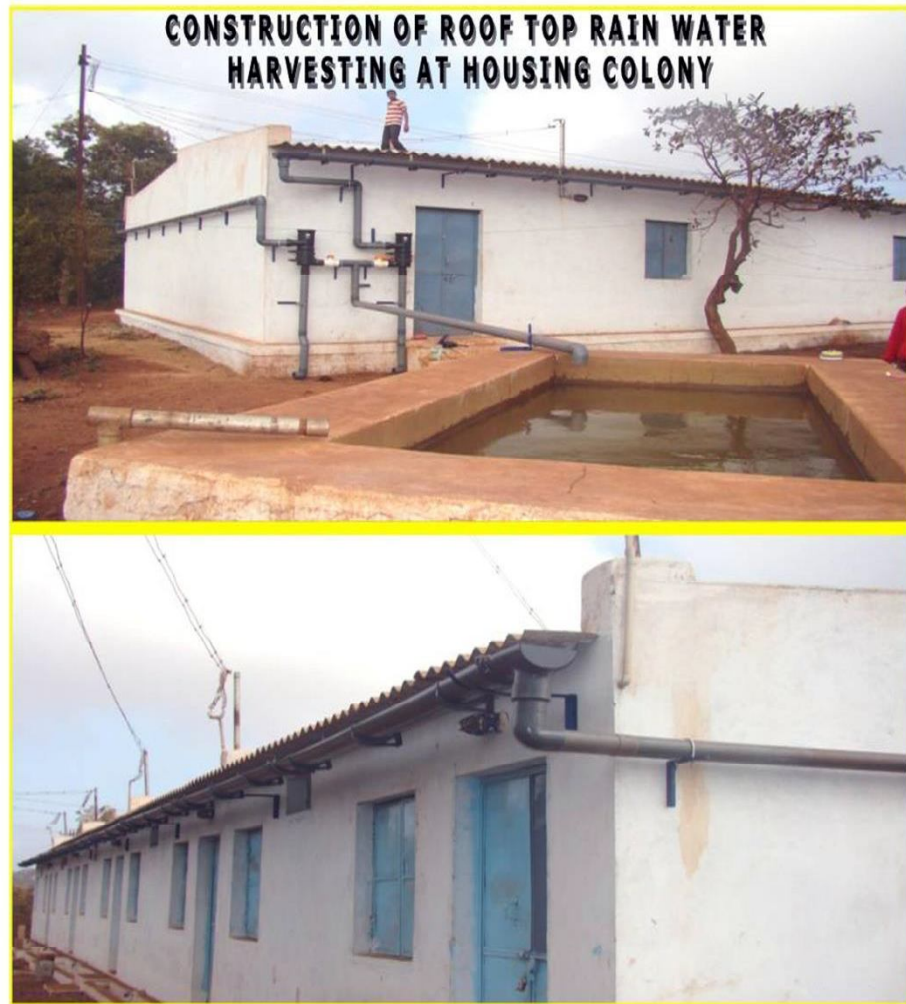


**SUBSIDISED GAS CYLINDER BEING DISTRIBUTED TO THE EMPLOYEES  
BY SMIORE TO AVOID CUTTING OF TREES**





## *The Sandur Manganese & Iron Ores Limited*







## *The Sandur Manganese & Iron Ores Limited*



FREE TRAINING IN TAILORING & EMBROIDERY  
FOREMPLOYEES WIFES/CHILDRENS AT DEOGIRI







# *The Sandur Manganese & Iron Ores Limited*

**SOLAR WATER HEATING SYSTEM AT DEOGIRI HOUSING COLONY**



**SOLAR WATER HEATING SYSTEM AT DEOGIRI BACHELOR QUARTERS**







# *The Sandur Manganese & Iron Ores Limited*

## **SMIORE'S EFFORTS TOWARDS CSR:**

➤AS PART OF CSR ACTIVITIES, SMIORE HAS BEEN CONTRIBUTING TO THE SOCIETY IN THE FOLLOWING WAYS:

➤CONSTRUCTED 762 HOUSES FOR VICTIMS OF FLOODS AT SIRUGUPPA TALUKA IN BELLARY DISTRICT -RS.13 CRORE.

➤RE-CONSTRUCTION OF A 12 KM ROAD FROM SANDUR TO THE FAMOUS SHRINE OF LORD KUMARASWAMY – SMIORE'S

CONTRIBUTION RS.20 CRORE OUT OF RS.24 CRORE ESTIMATE.

➤RS.9 CRORE TO BATF FOR DEVELOPMENT WORKS IN BELLARY DISTRICT.

➤TWO VEHICLES TO AKSHAYA PATRA FOUNDATION FOR TRANSPORT OF MID-DAY MEALS TO SCHOOL CHILDREN.

➤SUPPORTS 5,000 STUDENTS AND 200 TEACHERS IN 13 SCHOOLS, COLLEGES AND A POLYTECHNIC.

➤COMPENSATIONS TO LOCAL FARMERS IN THE EVENT OF BOTH DROUGHT AS WELL AS EXCESSIVE RAINS.

➤RELIEF TO VICTIMS OF FIRE ACCIDENTS IN NEIGHBOURING VILLAGES.





## *The Sandur Manganese & Iron Ores Limited*

➤REGULAR DE-SILTING OF WATER TANKS IN SURROUNDING VILLAGES.

➤FREE MID-DAY MEALS TO ABOUT 1200 CHILDREN IN SOME LOCAL SCHOOLS. (THROUGH AKSHAYA PATRA - ISKON).

➤TWO HOSPITALS AT MINES AND A FULL-FLEDGED HOSPITAL AT SANDUR, TO PROVIDE FREE MEDICAL CARE TO EMPLOYEES AND ALSO LOCAL POPULATION AT A VERY NOMINAL COST.

➤ANNUAL FREE CAMPS FOR CANCER DETECTION, CARDIAC CARE, ORTHOPEDICS, WOMAN & CHILD CARE, ETC.

➤REGULAR FREE EYE CAMPS – 5 TO 6 ANNUALLY.

➤IN ADDITION TO THE ABOVE, SMIORE HAS ALREADY MADE A COMMITMENT TO THE DEPUTY COMMISSIONER, BELLARY, TO UNDERTAKE VITAL DEVELOPMENT ACTIVITIES IN ABOUT 22 VILLAGES IN AND AROUND SANDUR, SUCH AS ROADS, HEALTH CENTRE, CLEAN DRINKING WATER, LIGHTING, ETC., AND ALSO ADOPTION OF SANDUR TOWN TO BUILD BETTER ROADS AND DRAINAGE WITHIN THE TOWN, AND GREENING OF THE TOWN. ALL THIS IS ESTIMATED TO COST ABOUT RS.50 CRORE OVER THE NEXT THREE YEARS.





## *The Sandur Manganese & Iron Ores Limited*

### **Particulars of Educational Institutions run by Sandur Group**

SL.No	Name of educational Institutions	Year of Establishment	Remarks and achievements
1	SMIORE Higher Primary School, Deogiri	1955	
2	SMIORE Higher Primary School, SB Halli	1956	
3	SMIORE High School, Deogiri	1967	
4	Balawadi Old Camp, Deogir	1985	
5	Balawadi New Camp, Deogir	1985	
6	Balawadi, SB Halli	1981	
7	S E S,s Higher Primary School Sandur	1970	
8	Sri.Chatrapati Shivaji Vidyamandir High School, Sandur	1942	The School has the Distinction of having Sri.M.Y.Ghorpade, Sri.Venkatrao Ghorpade as its Alumni.
9	Sri.Chatrapati Shivaji Composite Junior College, Sandur	1970	
10	SES Girls High School Sandur	1981	
11	Sandur Residential Composite Junior College Sandur	1959	
12	Sandur Residential Composite Junior College, Vyasapuri	1991	15th State Rank, CET -46 <sup>th</sup> Rank
13	SMIORE Girls High School, Vyasapuri	1979	
14	SMIORE Higher Primary School, Vyasapuri	1984	
15	Sandur Polytechnic, Yeshwantanagar	1988	48 State Ranks from 1992 to 2005
16	SES Arts, Science and Commerce College,Sandur	1973	
17	SMIORE Girls Residential School, Vyasapuri	1995	



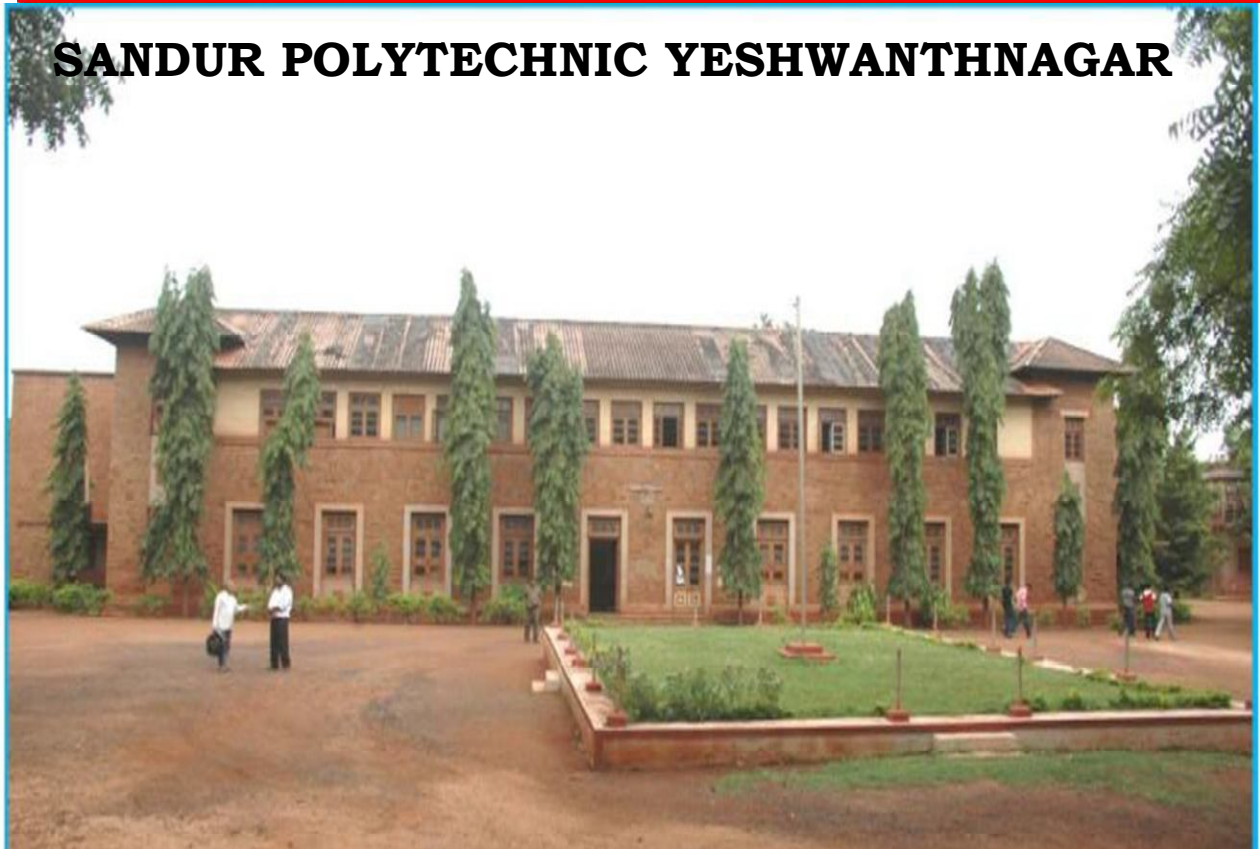


*The Sandur Manganese & Iron Ores Limited*

**SMIORE PRIMERY AND HIGH SCHOOL,  
DEOGIRI**



**SANDUR POLYTECHNIC YESHWANTHNAGAR**





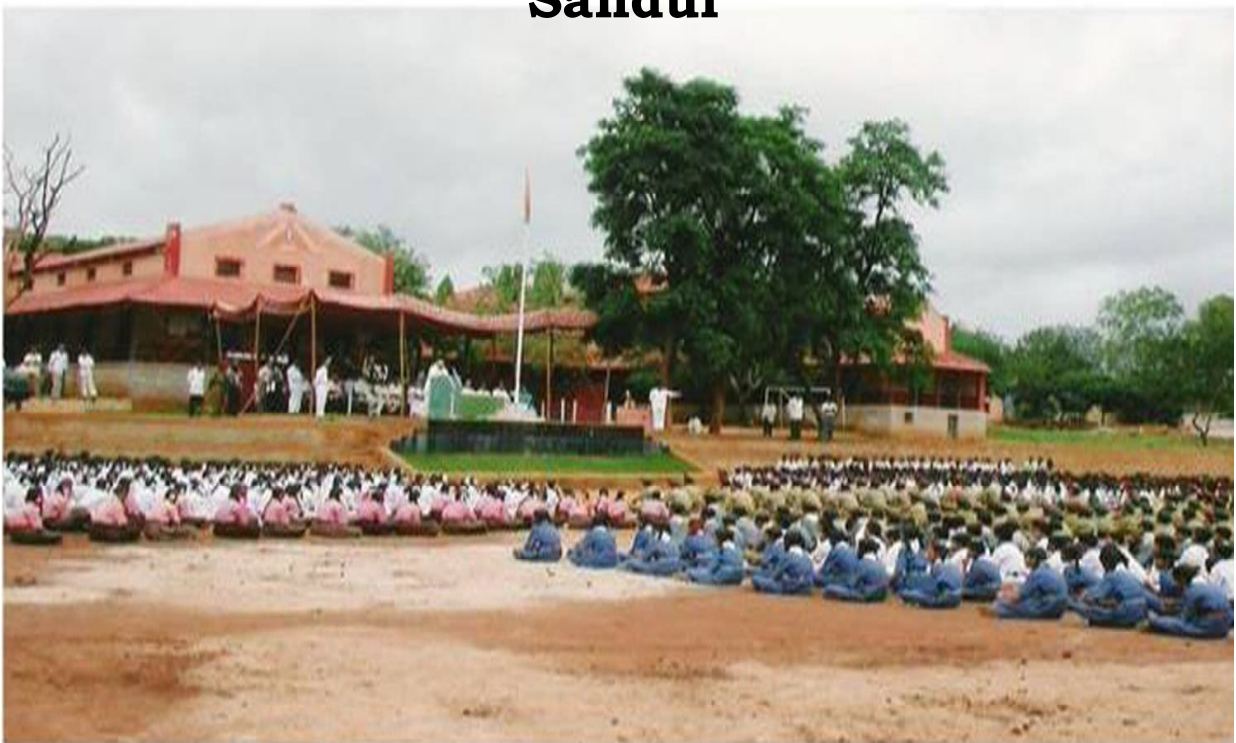


*The Sandur Manganese & Iron Ores Limited*

## **Sandur Residential School**



## **Shree. Chatrapathi Shivaji Vidya madira Sandur**







## *The Sandur Manganese & Iron Ores Limited*

C C ROAD FROM SANDUR TO ANCIENT SHREE  
KUMARASWAMY TEMPLE



### **DE-SILTING AT ANKAMMANAL TANK**







*The Sandur Manganese & Iron Ores Limited*

**SMIORE AROGYA HOSPITAL, SANDUR**



**KINAL PAINTING AT SKKK**







## *The Sandur Manganese & Iron Ores Limited*

### **CONSTRUCTION OF HOUSES FOR FLOOD DISPLACED PEOPLE AT SINRIGUPPA (BELLARY DISTRICT)**

In the year 2009 in sinriguppa (Bellary District) lots of houses were damaged due to heavy floods and many of them were left homeless. To rehabilitate them our company has spent Rs. 12 crores for constructing 762 houses as part of relief and rehabilitation.



### **SMIORE ADARASHA COMMUNITY CENTRE AND KALYANA MANTAPA**







## *The Sandur Manganese & Iron Ores Limited*

**Smt. SHANTA BAI RECEIVING NATIONAL AWARD FROM  
PRESIDENT OF INDIA SHRI. A.P.J. ABDUL KALAM FOR  
LAMBANI HAND EMBROIDERY CRAFT**



## **WOOD CARVING AT SKKK**

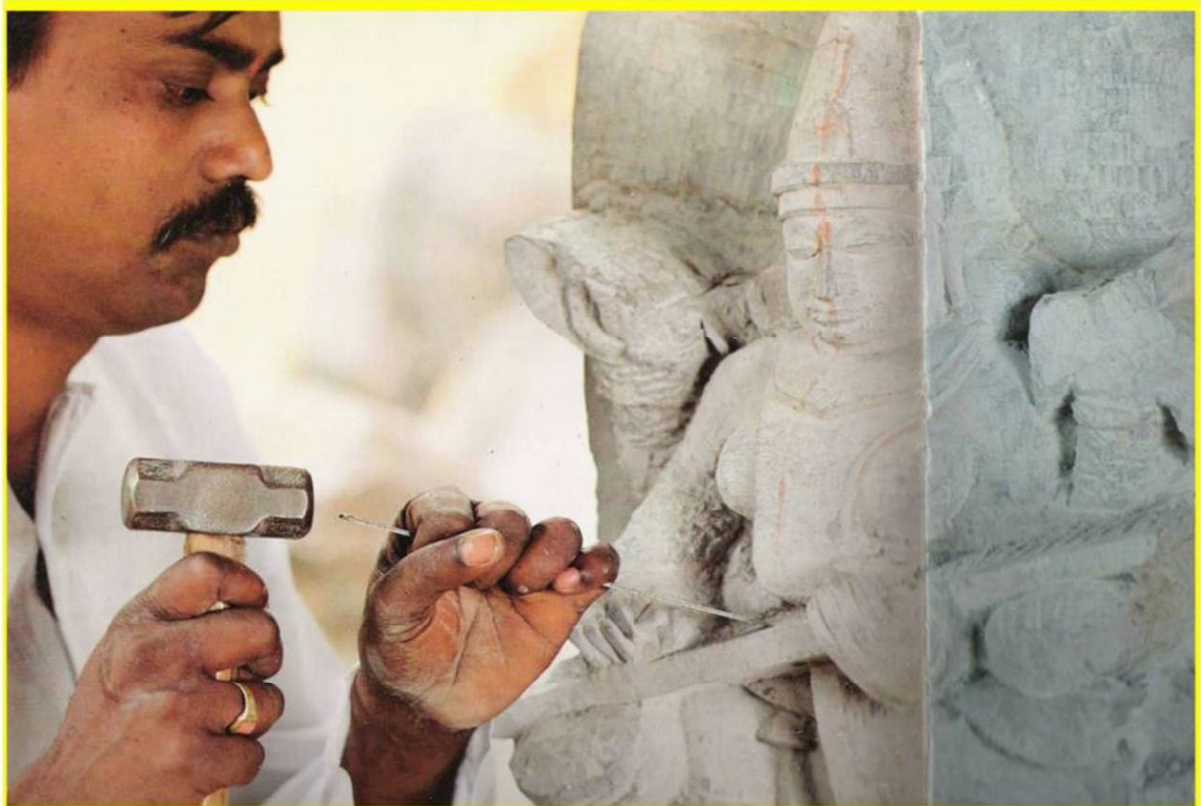




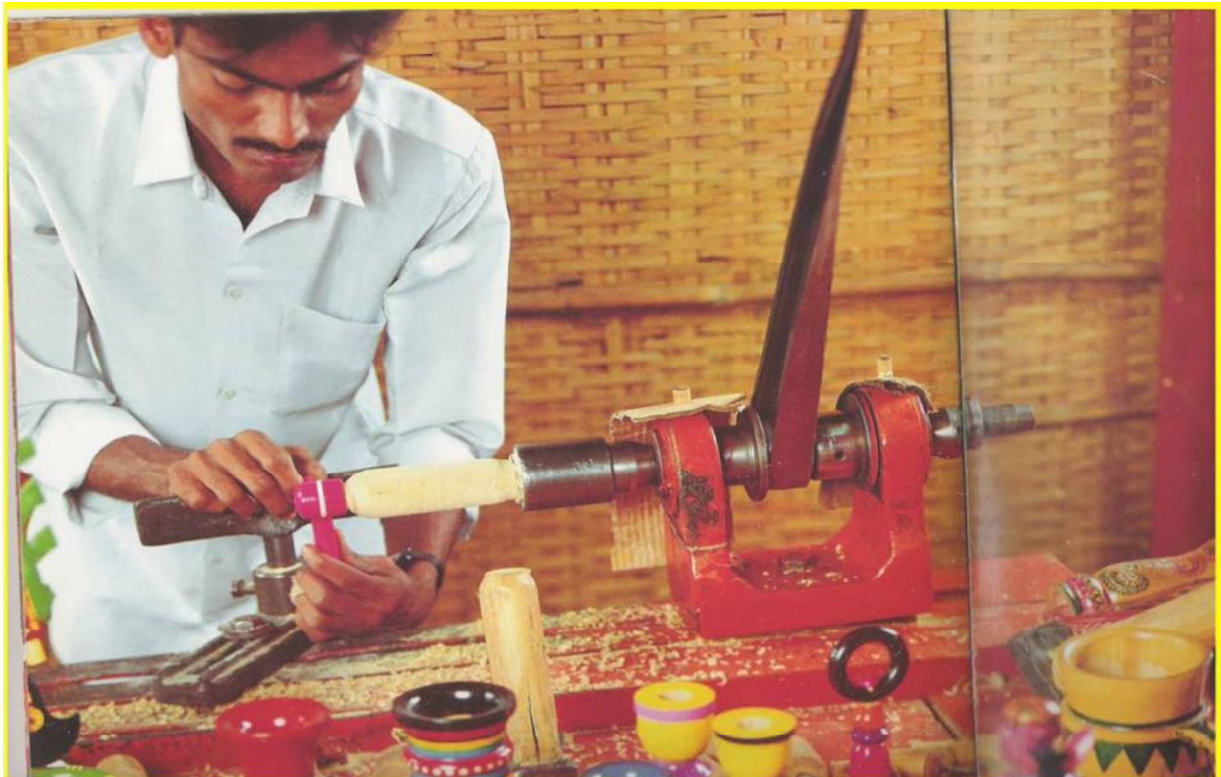


*The Sandur Manganese & Iron Ores Limited*

**STONE SCULPTURE AT SKKK**



**TOY MAKING AT SKKK**





# *The Sandur Manganese & Iron Ores Limited*

Dt:01.06.2014

## LIST OF TECHNICAL AND ADMINISTRATIVE STAFF

S.No	Department	Strength
<b>I</b>	<b><u>MINING</u></b>	
1	<b>Executive Director(Mines)</b>	1
2	First Class Mines Managers	7
3	Second Class Mines Managers	8
4	Mines Foremen	32
5	Mines Mates	42
6	Blasters	15
7	Spotters	64
8	Drillers	63
9	Mineworkers	684
10	Blasting/R.G.Workers	70
11	Clerical Staff	8
<b>II</b>	<b><u>MECHANICAL</u></b>	
1	Mechanical Engineers	8
2	Operational Staff	117
3	Maintenance Staff	52
<b>III</b>	<b><u>ELECTRICAL</u></b>	
1	Electrical Engineers	6
2	Supervisors/ Staff	28
<b>IV</b>	<b><u>ENVIRONMENT PLANING AND SURVEY</u></b>	
1	Geologist	5
2	Planning	1
3	Surveyors	7
4	Enviornment Officers	1
5	Supervisors/Field Staff	48
<b>V</b>	<b><u>QUALITY CONTROL</u></b>	
1	Dy.General Manager (QC)	1
2	Officers (Asst.Manager (QC) , Mineral Process Eng. G.F, General Foreman (Railing)	4
3	Lab - Chemist	3
4	Staff	145
<b>VI</b>	<b><u>MEDICAL</u></b>	
1	Chief Medical Officers	3
2	Supervisors and Staff	48





# *The Sandur Manganese & Iron Ores Limited*

<b>VII</b>	<b>ADMINISTRATION &amp; ACCOUNTS</b>	
<b>A &amp; B</b>	Executive Director (Finance)	1
	C.S & CGM (Mines)	1
	Addl.G.M (Admn)/Sr.Manager/Dy.Managr/ Officers	5
	Staff	9
	Dy. General Manger (Accts) AGM (Accts)	2
	Managers/Officers	6
	Staff	10
<b>C</b>	<b>EDP</b>	
	Managers (Sr.Manager (Systems) Dy.Manager(Sys)	5
	Staff	3
<b>D</b>	<b>FIELD STORE</b>	
	Dy.Manager (Store)	1
	Staff	11
<b>E</b>	<b>PERSONNEL/WELFARE</b>	
	Sr.Manager (Personnel)	1
	Officers (Dy.Manager (Per) , Welfare Officer)	2
	Staff	74
<b>F</b>	<b>EDUCATION</b>	
	Teaching/Non-Teaching Staff	9
<b>G</b>	<b>PROVIDENT FUND</b>	
	Officer (Dy.Mngr (Accts)	1
	Staff	3
<b>H</b>	<b>PURCHASE</b>	
	Manager (Pur)	1
	Supervisor / Staffs	3
<b>I</b>	<b>SALES</b>	
	Sr.General Manager (Lag)	1
	General Manager (Sales)	1
	Asst General Manger (Sales)	1
	Officers (Manager (Sales) Personnel Secretary)	2
	Staff	9
<b>J</b>	<b>CIVIL</b>	
	Officer (Dy.Manager (Civil) Civil Officer)	2
	Staff	21
<b>K</b>	<b>SECURITY</b>	
	Security Officer/ Asst.Security Officer	4
	Staff	47
<b>VIII</b>	<b>HEAD OFFICE</b>	
	<b>Sandur/Bangalore/Out Station</b>	
	Directors,	36
	DGM/AGM/Officers	
	Others	94
	<b>TOTAL</b>	<b>1837</b>



## *The Sandur Manganese & Iron Ores Limited*

### DRILLING AND EXPLORATION

- Before starting mining operations or even to plan for mining, the available ore quantity and quality has to be ascertained. This can be achieved only by systematic and scientific exploration using state-of-the art technology and taking help of modern sophisticated software available.
- SMIORE has carried out systematic exploration by CORE and RC drilling covering both mineralized and non-mineralized areas of the leases. A total of about 50000m of drilling has been completed in 880 holes. The entire core of 40000m obtained by diamond drilling is stored in a core library comprising of steel containers for further studies.
- Out of the total area of about 2000 ha, area covered by plateau is about 900 ha and area covered by slopes and over burden dumps is about 1100 ha. Entire plateau area of 900 ha is covered by exploration by way of core and RC drilling. This exploration has resulted in proving **38 million tonnes of Iron ore** and about 3 million tonnes of Manganese ore. Drilling is contnueing.

**The summary of entire drilling activity is given below:**





**Manganese ore :**

**Iron ore :**

### Future Exploration:

**Diamond core drilling:**

### Riverse circulation(RC) Drilling:

**Summary:**

**Total no. of holes drilled:      Total drilled meterage:**

**Total area covered:** 809.39 ha



# *The Sandur Manganese & Iron Ores Limited*

## DIAMOND CORE DRILLING



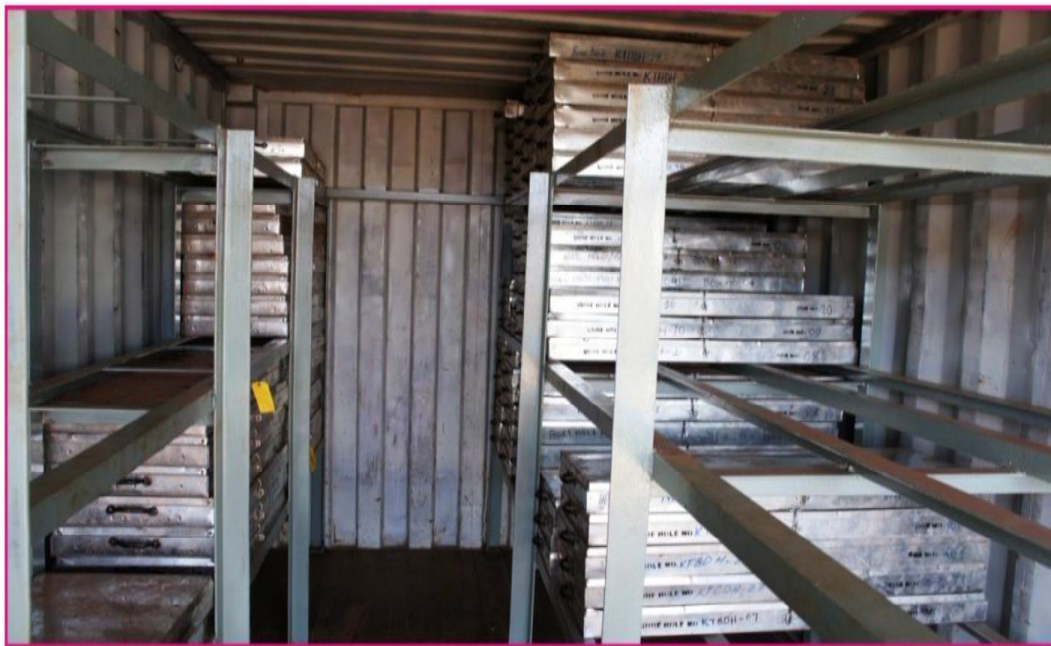
DIFFERENT LITHO UNITS ENCOUNTERED IN DRILL HOLES





# *The Sandur Manganese & Iron Ores Limited*

## DIAMOND CORE DRILLING



CORE LIBRARY – OUT SIDE AND INSIDE



# *The Sandur Manganese & Iron Ores Limited*

## **DATAMINE SOFTWARE AND ITS USE FOR EXPLORATION AND MINE PLANNING**

Datamine is a special mining software which can be used for the mining activities like Surveying, Geological mapping and exploration, ore reserve estimation, pit optimization, dump designing, planning for roads and blending proposals.

The software uses spatial point data having XYZ Co-ordinates. At the time of surveying surveyor will generate survey data in the form of XYZ Co-ordinates which will be fed in to the software using this data a 3-Dimensional view of the pit can easily be made which will look exactly like a satellite photo. Figure 1 shows the comparison.

A geologist can use the software in many ways. The data generated in the field for lithological contacts, ore bodies, structures features etc. can be fed in to the software to make 3-Dimensional pictures of geology and ore bodies which will help in planning for exploration and ore reserve estimation. Planning for exploratory drill holes can be made well in advance by preparing proposed cross-sections which will help in knowing the expected ore body intersections well in advance of actual drilling. The following picture shows drill hole locations sub-surface nature of ore body and expected grade of Iron ore calculated using the software.

After knowing the shape of the ore body, based upon the lease limits on the surface ultimate pit can be designed with required berm width, bench height and face angle. Juxtaposing the ultimate pit and the expected ore body model, we will be able to know the limitations of mining and will be able to know the minable reserves also we will be able to know the exact quantity of waste rock which will be excavated during the course of mining with the help of software we can design the dumps to hold the estimated quantities of waste. The following figure shows conceptual mine plan.

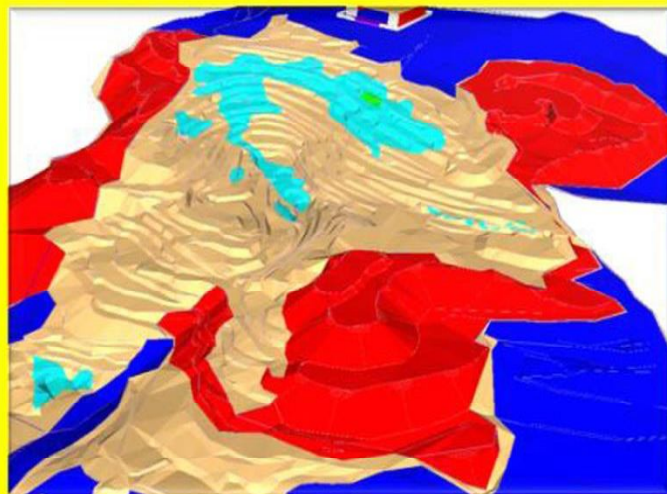
If we want to carry out the entire exercise of surveying, geology to conceptual mine planning without the aid of the software, for one mining pit it will take approximately 3 months. The same can be carried out within one month by using the datamine software.

The company has acquired two licences of the software which are continuously being used by our planning department for the above explained activities.





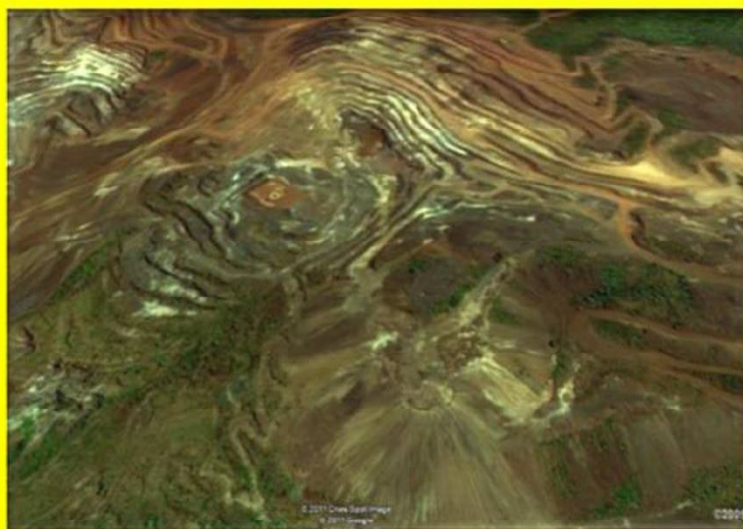
# *The Sandur Manganese & Iron Ores Limited*



**FIGURE - 1**

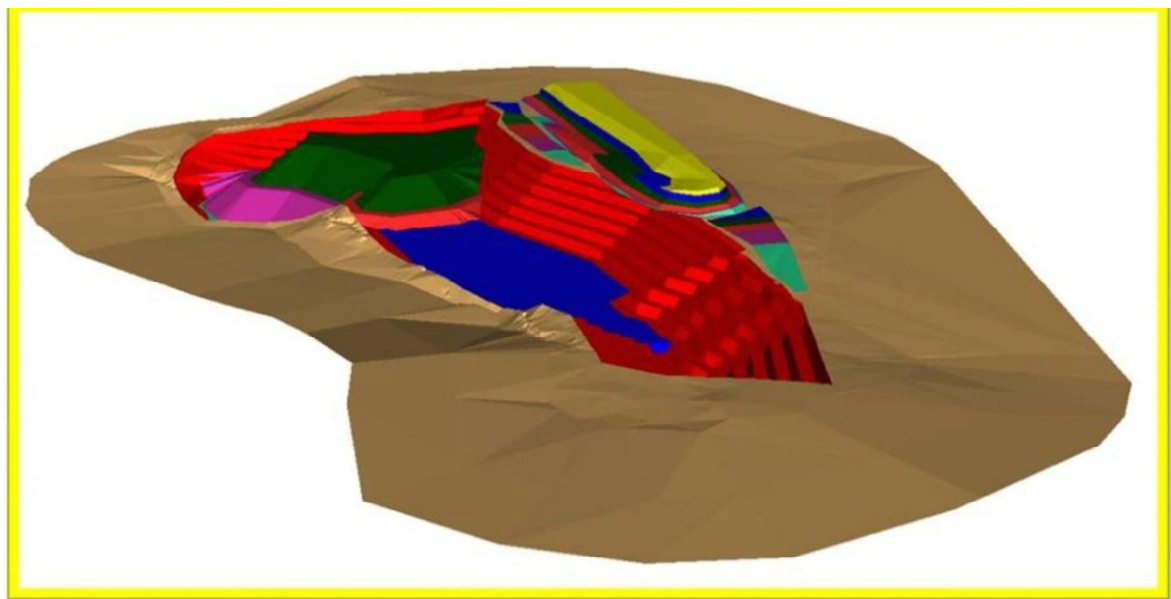
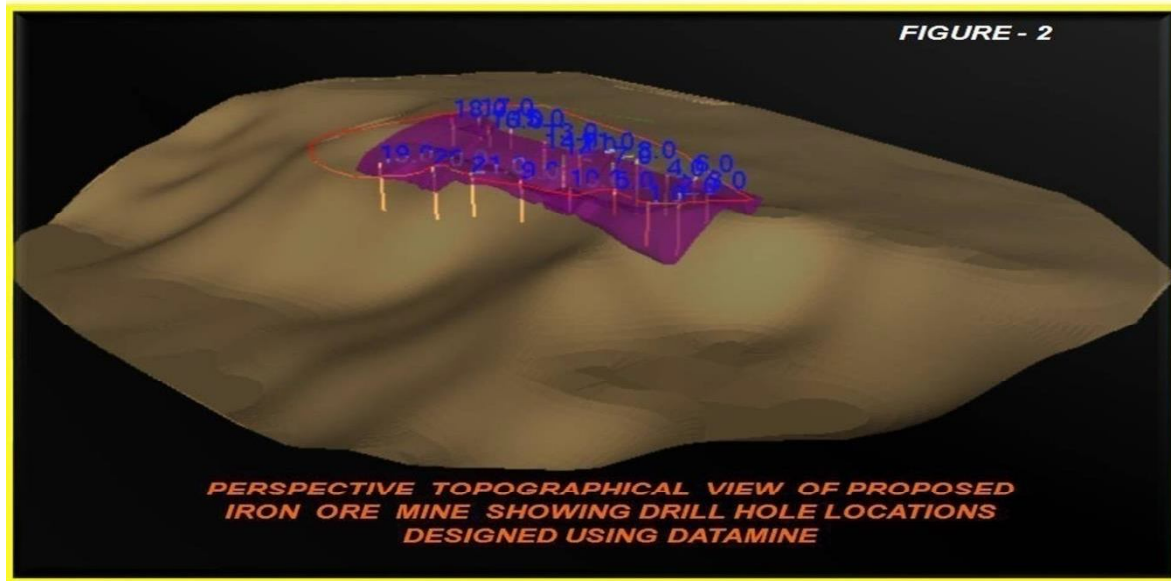
**3 D VIEW OF A  
MANAGNESE ORE PIT  
WITH GEOLOGY AND  
DUMP LOCATIONS AS  
DESIGNED BY DATAMINE  
SOFTWARE**

**GOOGLE PHOTO OF THE  
ABOVE MINE**





## *The Sandur Manganese & Iron Ores Limited*



CONCEPTUAL PLAN OF IRON ORE MINE SHOWING ULTIMATE PIT, DUMP, TOP SOIL STACK, SUBGRADE STACK AND BACK FILL AFTER MINING.

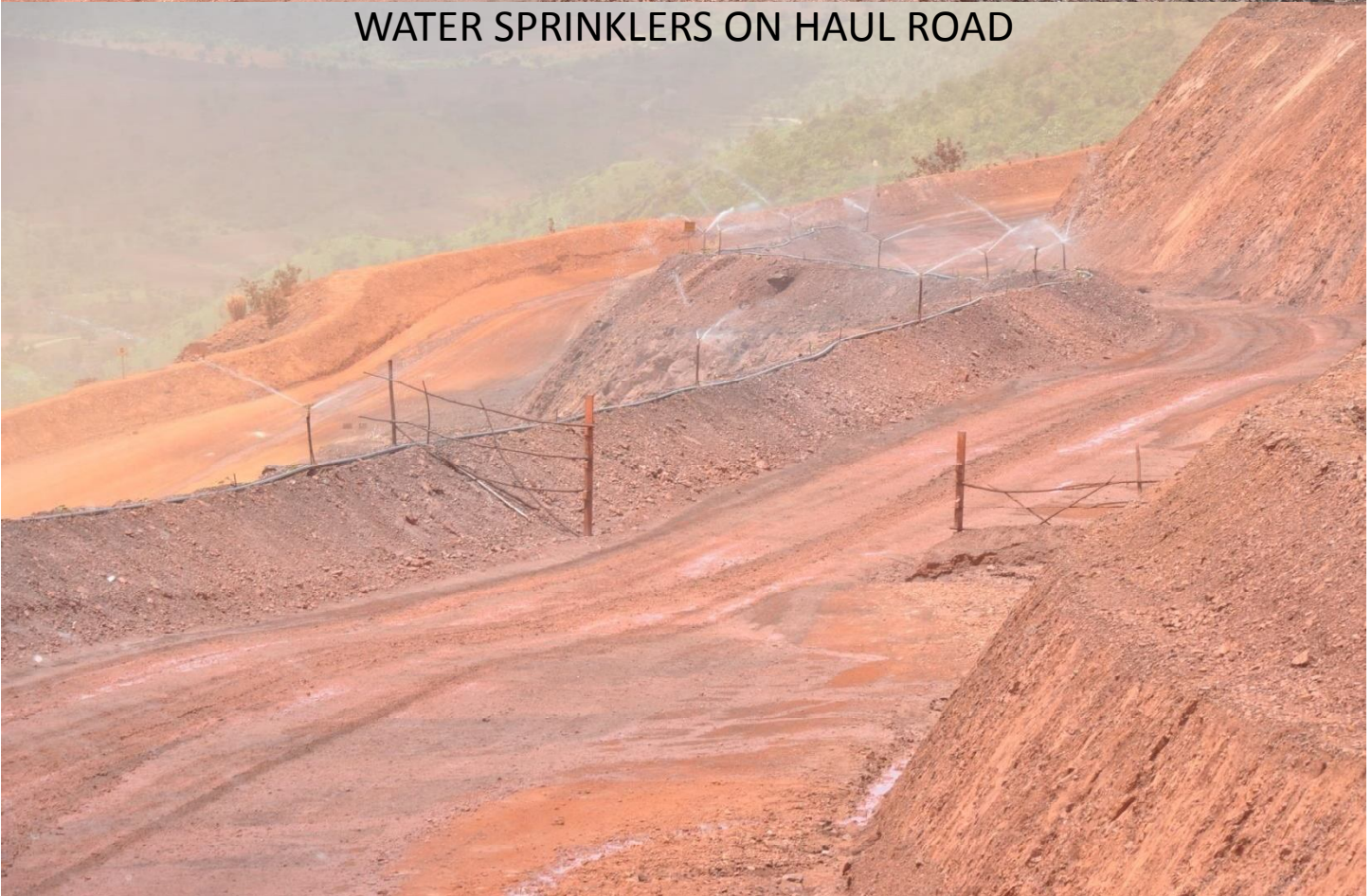




# *The Sandur Manganese & Iron Ores Limited*



WATER SPRINKLERS ON HAUL ROAD







# *The Sandur Manganese & Iron Ores Limited*



WATER SPRINKLERS ON HAUL ROAD







*The Sandur Manganese & Iron Ores Limited*

## CONCLUSION

*SMIORE earnestly believes in the concept of eco-friendly mining and will promise to maintain standard of safety, health & welfare of the employees of our mine.*

