

ANNUAL REPORT 2004-2005



Towards a Sustainable Future



Mineral Foundation of Goa





MISSION STATEMENT

“To promote Social Investment programmes through capacity building of the stakeholders, participatory decision making; support efforts underway and to pool together activities to improve the natural environment for Sustainable Development in the mining belt of Goa.....”

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FROM THE CHAIRMAN'S DESK

The Foundation has completed four fruitful years working with the community in the mining belt of Goa and I can say with confidence that we can look back with great satisfaction at the progress of the Foundation in a very short time.



Probably, since it is a mining industry initiative, we were initially received with a lot of skepticism. We too had to involve ourselves into charity work to win the trust of the community. But after four years of earnest, transparent and unprejudiced operation we are sure we have put the skepticism to rest. Today we have the confidence of moving ahead with our guiding principles in mind of participatory development with complete involvement of our "operating partners".

Last year has been an eventful one with many ambitious projects seeing the light of the day and many more conceptualized. Health has been the focus area. May it be health camps, weekly check-up or cataract surgeries, special thrust was on the well-being of children and the elderly.

Water, the elixir-of-life, also has received a lot of attention. One of the ambitious projects of "Watershed Development" is being implemented in the true spirit of stakeholder participation in the process of planning, execution and sharing the fruits of labour. Traditional water-harvesting and storage structures were also identified and efforts to revive them with inputs from the users are underway.

Our belief of awareness and education as the first steps towards effective conservation, was the origin of the "Nature Club Programme" in schools wherein young minds are moulded to be environmentally responsible citizens.

Basic research provides the bricks on which the building of social development stands tall. Our research on effective utilization of mining rejects, comprehensive water resources studies will provide the platform on which future long-term developmental process can be planned. "Research-Action-Research" has been the approach in all the planned programmes, with initial survey of the proposed project to study its need and value, actual execution of the project and a proper scrutiny of its effectiveness after implementation.

Last year has also seen the Foundation progressively move from the "Project to Programme mode" with each scheme being planned to be self-sustaining in the

longer run without any support from the Foundation. Hence, capacity building of the partners has been another focal point of our activities.

We are optimistic that the motivation and mobilization of Self-Help Groups and User Groups as vehicles of change, will help us realize this objective.

New members joining us have strengthened our hands to spread our wings of activities further into the remotest corner of the mining belt. Social development is a path beset with ups and downs and we hope that more members will join-in and support us on this arduous journey.

I wish all the members, my colleagues from the Governing Board and the Executive Committee and all those who have contributed to the Foundation and its activities an eventful year ahead and appeal to every-one to be a part of the environmental and social development dream envisaged by the Foundation for the mining belt of Goa.

I shall fail in my duties if I do not place on record the enthusiasm and commitments exhibited by the staff of the Foundation who has worked as a cohesive unit to effectively implement the various planned programmes of the Foundation.

THE BEGINING

The mining sector in the state of Goa has generously supported philanthropic activities through various initiatives since beginning of the mining operation. However these efforts were sporadic, localized and were not coordinated. With the mechanization of mines and opening of new areas, the industry thought it prudent to establish a professionally managed organization totally devoted to the well being of the people and environment in mining belt of Goa. Thus Mineral Foundation of Goa (MFG) was registered on 12th December 2000 under the Societies Registration Act, 1860 as a co-



operative venture for promotion of environmental and social development programmes in mining belt of Goa. It is a Corporate Social initiative of the mining industry of Goa. The Foundation through its programmes contributes to economic growth, employment generation, social upliftment of communities and environment conservation in the mining belt. It is a non-profit organization and is exclusively funded by the mining industry with annual subscriptions.

The Mineral Foundation of Goa aims to:

Address environmental and social issues concerning the communities in the mining belt of Goa through formulation and implementation of developmental programmes.
Contribute to the economic and social development of the local communities.

The Foundation operates on two-tier arrangement of a Governing Board and an Executive Committee.

The Governing Board is constituted with representatives from the mining industry, nominees from the Central and State Government and accomplished member of society. The powers of managing the business and funds of the Foundation as well as formulating the broad policies towards attaining its goals are vested with the Governing Board.

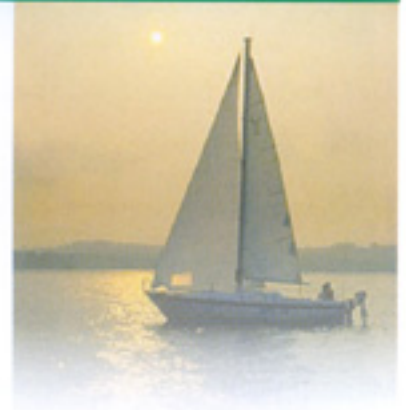
The Executive Committee comprises of the Chairman, State Government nominees for North and South Goa, two members from the community, Staff of Foundation and Secretary, Goa Mineral Ore Exporters Association as an ex-officio member. The Executive Committee examines the proposals received from the communities and recommends to the Board for its approval, besides monitoring the implementation of the projects.

The working of the Foundation is demand driven, transparent with an inbuilt provision of regular financial and social audits.

The Governing Board met four times and the Executive Committee also met four times during the year under review.

Mineral Foundation of Goa was promoted by the following companies

| Sr. No. | Company |
|---------|---------------------------------|
| 01. | Sesa Goa Ltd. |
| 02. | Damodar Mangalji & Co. Ltd. |
| 03. | V.S. Dempo & Co. Ltd. |
| 04. | Dempo Mining Company Ltd. |
| 05. | Sociadade de Fomento Indl. Ltd. |
| 06. | Chowgule & Co. Ltd. |
| 07. | Emco Goa Pvt. Ltd. |
| 08. | V.M. Salgaocar & Bro. Pvt. Ltd. |
| 09. | M/s Ahiliabai Sardessai |
| 10. | Cosme Costa and Sons Pvt. Ltd. |



GOVERNING BOARD

Mr. Shivanand V. Salgaocar, Chairman
Mr. L.A. Dean, Vice Chairman
Mr. Shrinivas V. Dempo, Hon' Secretary
Mr. Ramesh Chowgule, Hon' Treasurer
Mr. K. S. Raju , Controller General, IBM
Mrs. Jayashree Raghuraman, Secretary (Mines), Govt. of Goa
Mr. P.A. Zacharias, Vice Chancellor, Goa University

EXECUTIVE COMMITTEE

Mr. Shivanand V. Salgaocar, Chairman
Mr. S.S. Keshkamat, Collector (North Goa)
Mr. J. B. Singh, Collector (South Goa)
Mr. K.D. Sadhale, Representative from the society
Mr. Jagdish Wagh, Representative from the society
Mr. S. Sridhar, Chief Executive Officer
Mr. Glenn Kalavampara, Jt. Secretary, GMOEA (Ex-officio Member)
Dr. Sachin K. Tendulkar, Programme Manager
Mr. Parag Rangnekar, Programme Officer-Environment
Mrs. Rupali J. Dessai, Programme Officer-Social

CHIEF EXECUTIVE OFFICER

Mr. Swaminathan Sridhar

WOMEN EMPOWERMENT

Home makers to Income makers

The advancement of women in rural and semi-urban areas is punctuated by lack of social and economic opportunities. To attain these objectives, MFG has forged empowering partnership with these crusaders of development. Foundation's intervention leverages micro-credit and skill training to generate alternate employment opportunities. Empowering these agents of development pass on ripple effect on the household and rural economy. Increased awareness and income means better nutrition, health care and education for their children.



Working in different villages many women Self Help Groups have been organized. The regular meeting and mandatory contribution in SHG's strengthens community bonds, inculcates thrift and augments capital in rural economy.

Training is also provided to the group members to handle accounts, manage meeting business and appraise them with different developmental schemes through trained Community Volunteers. Empowered group function on their own, managing lending of loans to fellow members and collection of repayments.





A paradigm shift from welfare to development saw MFG conduct training in various skills like agro-processing, tailoring, cooking and catering, rexin bags making, soaps and paper bags making, agarbatti making etc. Efforts to market these products through exhibitions, involving groups in different functions and providing table space at different mine offices are underway.

Women Empowerment at a glance

Milestones during current year

| | |
|------------------------------------|-----|
| Self Help Groups established: | 26 |
| Number of members: | 316 |
| Women trained in different skills: | 35 |
| Villages covered: | 12 |

EDUCATION SUPPORT PROGRAMME

Facilitating opportunities Foundation's education support programme is aimed at providing better opportunities to the needy students and facilitates better learning. Towards meeting this objective, **Book Bank** scheme has been formulated in the schools of mining area wherein text-books are supplied to school, which are lent to the poor and needy students. Geometry boxes are also provided for the higher standard students. This programme is facilitated through member mining companies in respective areas.



Commitment to support higher learning in professional institutes has given birth to the **Scholarship Scheme** in the form of financial support (tuition fees and hostel fees) to the deserving and needy students from the mining belt. One scholarship each in various professional institutes in Goa throughout the course ensures creation of more professional talent in the mining belt.

Institutes:

Goa Medical College & Hospital, Bambolim

Goa Dental College & Hospital, Bambolim

Goa College of Pharmacy, Panaji

Goa College of Architecture, Panaji

Goa Institute of Management, Ribandar

Department of Management Studies, Goa University, Taleigao

Gomantak Ayurveda Mahavidyalaya & Research Centre, Shiroda

Goa Engineering College, Farmagudi

Padre Conceicao College of Engineering, Verna

Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda



Moulding young minds

The **Nature Club Programme** promotes awareness about nature and environment amongst student community. Besides promoting activity based learning and quenching thirst of young analytical minds, it helps in sensitizing these citizens of tomorrow towards their surrounding. Under this programme Nature Clubs are formed in select schools and the members are educated about different ecological linkages through lectures, slide shows, nature trail etc. Residential Nature Orientation Camps in Wildlife Sanctuaries and National Parks are arranged during vacation with the help of Forest Department.



In collaboration with the Indian Red Cross Society and Directorate of Education **First Aid Camp** for the school students are conducted in all the high schools in the mining belt of Goa. During these camps, trained paramedical staff demonstrates the nuances of first aid and precautions to be taken during emergencies. MFG intends to make this programme more meaningful by involving the Physical Education Teacher.



The celestial world always fascinates young minds. However, lack of knowledge about the different celestial phenomenon breeds more superstitions. The Foundation in association with Association of Friends of Astronomy (AFA) has launched **Astronomy Outreach Programme (AOP)** which imparts knowledge about different celestial bodies and phenomena through slide show and sky watching. A mobile panel exhibition depicting progress of Astronomy titled "From Vedas to Space" is being assembled and will be displayed in all the schools .

School educational programme at a glance

Milestones during current year

| | |
|---|------|
| No. of Nature Club established: | 10 |
| No. of schools covered: | 10 |
| No. of students involved: | 500 |
| No. of residential camps held: | 3 |
| No. of schools covered under First Aid: | 42 |
| No. of students trained in First Aid: | 1000 |
| No. of Schools covered under AOP: | 8 |
| No. of students involved: | 400 |

HEALTH CARE

Reaching out
to the masses

All sections of society in mining belt of Goa has benefited from the all encompassing health programme of the Foundation. From medical help to children, elderly and cataract surgeries, to participation in national health care programmes, MFG has been in the forefront to ensure and establish the maxim "Health is Wealth".

Healthy Today for a
Better Tomorrow

A healthy childhood will ensure healthy citizen for the future. This driving principle has seen MFG implementing **Health Camps** in schools on regular basis. The camps are conducted in association with the team of doctors from the mining companies to diagnose ailments and are provided free medicines. Underweight and malnourished students are provided protein supplement and are regularly monitored till they regain normal weight. Besides, children identified with specific ailments i.e. congenital heart disease, orthopedic problem, eye/ ear problem etc. are provided specialized treatment either in the State or out of State. To develop a database and to promote concept of blood donation, blood group testing has been initiated in schools. The schools have been able to generate a record of blood group of all students, which is very helpful during emergencies.





With an aim to provide health care at doorstep, specialized health camps are conducted in villages. The prevalence of hypertension and diabetes are cause for concern and special emphasis is laid on treating these ailments. These activities are undertaken in collaboration with local agencies and free medicines are provided to the patients.

Helping the aged smile

The **Mobile Medicare Unit (MMU)** in association with HelpAge India caters to the aged citizens. This weekly service provides quality healthcare to the doorstep of needy elderly people, through the MMU.



Lighting-up lives There can be no better gift to an elderly person than the clear sight of a dear one. Every year the free cataract surgeries under the **Project Drushti** programme bring light into many ageing lives. Along with it comes the ability to earn a living, a dignified existence and return of self-esteem. The project is implemented in association with Shri Kanchi Kamkoti Peetam Charitable Trust, Sankara Netralaya, Salgaocar Medical Research Centre, Directorate of Health Services and Satya Sai Seva Samiti

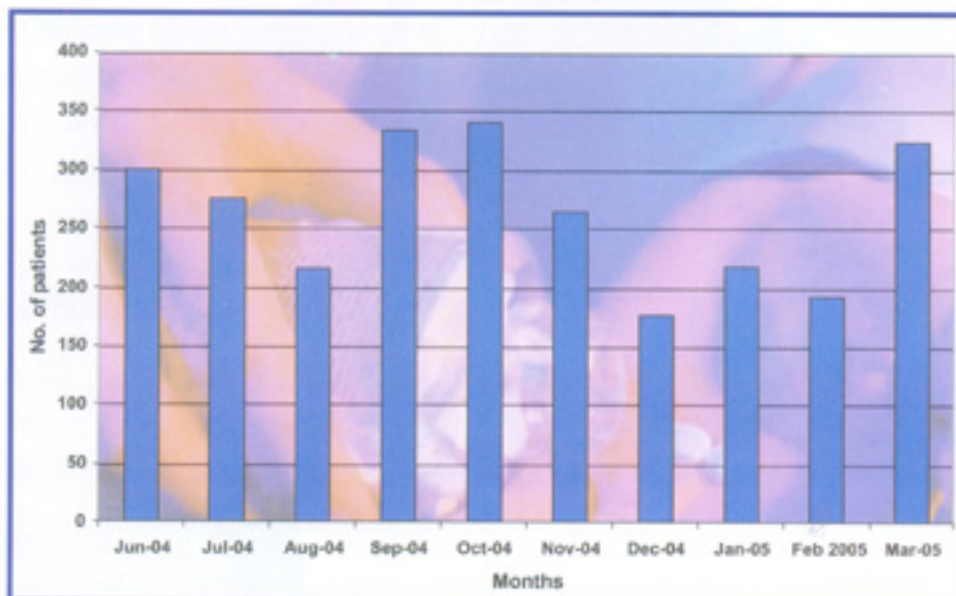


Partners-in-cause Many patients from economically weaker section of society cannot afford specialized treatment for want of required funds. MFG through its **Financial Assistance** programme intervenes in providing medical care either in the state or outside the state at speciality hospitals. Specialized treatment imparts a new life to patient.

The **National Tuberculosis Eradication Programme** being implemented through the Primary Health Centres is supported by providing protein supplements on regular basis. A healthy diet coupled with regular treatment will ensure faster recovery of patients and eradication of this disease.



A **Patient Aid Unit (PAU)** in association with Matruchaya Seva-25 is operated at the Goa Medical College, Bambolim. The volunteers from this unit help people arriving from remote areas in quickly accessing different medical facilities available with the hospital. This lessens the drudgery of locating different wards and other emergency services.



Collaboratively another programme of **Weekly OPD** is implemented at Sancordem for the benefit of village community since this area lacks nearby medical facility. The voluntary services offered by medical practitioner are supplemented with free medicines.

Health care at a glance

Milestones during current year

| | |
|--|------|
| No. of School camps: | 21 |
| No. of Students covered: | 7294 |
| No. of Blood group testing camps: | 12 |
| No. of students tested: | 1320 |
| No. of village camps: | 15 |
| No. of patients covered: | 2242 |
| No. of villages covered by Mobile Medicare Unit: | 7 |
| No. of patients covered under TB eradication: | 120 |
| No. of patients covered under Drushti: | 111 |
| No. of patients assisted by PAU: | 3204 |
| Financial Assistance to patients (No.): | 9 |



INFRASTRUCTURE DEVELOPMENT

Improving quality of life

The infrastructure development programme is driven by the realization that poor infrastructure is bane of any developmental process. A good infrastructure is precursor to development in rural areas. The infrastructure development projects are undertaken based on demand of the local community. MFG works in close coordination with local authorities and NGO's to supplement the developmental initiatives launched by government.



We believe that extensive network of the government and aided schools must be made more attractive to children. The **Institutional Infrastructure** programme mainly benefits the educational institutes/ Voluntary Organisations and include improving school buildings, constructing toilets, library, laboratory, bench/desk, drinking water etc.

The **Community Infrastructure** projects address the problem of crematoriums, drinking water, parks & gardens, irrigation, culverts and resource centres. Stakeholder participation through SHG's in planning and implementing the infrastructure projects helps in augmenting capacity of these Voluntary Organizations. Entrusting the execution of various infrastructure projects ensures effective implementation of the project as per the need of the community and also provides an alternate source of income to these groups.

Infrastructure development at a glance

Milestones during current year

| | |
|---|----|
| No. of Institutional Infrastructure projects: | 10 |
| No. of Community Infrastructure projects: | 8 |

ENVIRONMENT CONSERVATION

INTEGRATED WATERSHED DEVELOPMENT

Participatory initiative for
sustainable development (Jalswarajya)

Though the State of Goa annually receives an average rainfall of 3000 mm resulting in water surplus, different areas of the state face acute shortage of drinking and irrigation water from winter onwards.

The excess rain also accelerates soil erosion resulting in reduced fertility and silting of lower drainage courses. Increasing population coupled with increased demand for drinking and irrigation water has depleted the ground water.

The Integrated Watershed Development Programme is a key intervention to reverse these deficits and develop these areas sustainably. The Foundation currently has initiated two such projects in Kirlapal (Sanguem) and Mayem (Bicholim) covering 2000ha and involving 300 families.

The twin objective of this project are Natural Resource Management (NRM) and Social Resource Development (SRD). An extensive organization building through building of SHGs, User Groups and Watershed Association (WA) precedes technical capacity building. Training is provided to the stakeholders in construction of water harvesting structures. Infrastructure projects in the surrounding areas are executed by involving SHGs under the Watershed Programme. Other than the two existing projects, the Foundation plans to make a claim for another ambitious project under the NWDPPRA Scheme for around 3000 ha.





The nallahs/rivulets which are silted are a cause of floods during the heavy phase of the monsoons. These nullahs and rivulets are regularly desilted to avoid flooding and damage to the property. The local community around these nallahs are involved while planning and implementing these projects.

Honouring the traditional legacy The traditional water harvesting and storage structures initially managed by local community are in neglected state. Revival and improvement of these structures augment their storage capacity, recharges ground water and help in bringing more area under cultivation. The existing drinking water facilities are also not adequate for the growing population. Revival and restoration of these common utilized resources to the satisfaction of the local community is an area of thrust for the Foundation. The local community helps in identifying the project sites and MFG collaborates to restore these facilities to its original grandeur.





UPGRADATION OF HAULAGE ROADS

Restoring air quality Mining companies in absence of dedicated road are forced to share the public road for transport of ore. Bad condition of this road results in spillage of ore and subsequent dust pollution. MFG subscribes to view that a well-maintained road will reduce spillage, lessen dust pollution, reduce maintenance and benefit community at large. The long pending demand of road upgradation at Sonshi was undertaken with generous contribution from mining companies in adjoining area.

Environment conservation at a glance

Milestones during current year

| | |
|--|-------|
| No. of Watershed Association formed: | 1 |
| No. of tanks augmented: | 3 |
| No. of springs restored: | 1 |
| Length of desilted water course (km) : | 4.0 |
| Road length upgraded (km) : | 1.8km |

RESEARCH

Investing in

green technology Research projects to address practical problems encountered in the mining belt and find lasting solutions are being supported by the Foundation. These projects are adopted as test cases and positive findings are replicated to other areas. One of the major problems in the mining belt is generation of large amount of overburden during ore recovery. Its management is the biggest challenge faced by the mining industry of Goa. A large area is required to stack it and improper handling can lead to environmental problems.

We have been deliberating on ways and means to effectively counter this problem and find alternative usage for this overburden. Due to its inherent properties, the **Terra block** made from mine rejects can be substitute for laterite stones/ cement blocks available in market. Hence, a pilot project involving Self Help Group members in preparation of this block was initiated. A manually operated hydraulic machine was bought and about 2000 blocks were manufactured for trial purpose. The compression test results on this block are awaited. MFG intends to initiate a livelihood activity based on results of this pilot project and try and use these blocks in its own construction works.



Diversification into market oriented cropping system can effectively improve returns over conventional crops. Intercropping amongst traditional crops can boost the productivity of the land parcel and maximize on labour efficiency. A Memorandum of Understanding (MoU) has been signed with Gomantak Ayurvedic College and Research Centre to promote **Medicinal Plant Cultivation** as an intercrop or sole crop. Under this project a medicinal plant nursery will be developed at Ayurvedic College premises for benefit of general public. Ayurvedic College will ensure buy-back of the medicinal plants cultivated by local farmers. To promote the time-tested ayurvedic therapy Ayurvedic Health Camps in villages will be organized as a part of the MoU.

To study the hydrodynamics in the mining region, MFG has launched a **Water Resource Study** on micro-watershed basis. This one-year study will elaborate on possible effect and suggest remedial measures to ensure availability of this dynamic resource.

The challenge of solid waste management is acquiring unanimous proportion. Individual/institutional efforts are necessary to address this problem. To demonstrate efficacy and promote adoption of this technology **Vermiculture Demonstration Unit** will be set-up in two famous temples of Goa. The "Nirmalya" (stale flowers) which find their way into water-bodies and flowing streams will be used as raw material and convert it into vermicompost.



Since sugarcane is a major cash crop grown in the mining belt of Goa, a **Sugarcane Demonstration Plot** in association with Sanjeevani Sahakari Sakhar Karkhana Ltd. will be initiated in the coming *Kharif* season to demonstrate the scientific package of practices involved in sugarcane cultivation.

NETWORKING & WORKSHOPS

Benefiting

from trend setters The Mineral Foundation of Goa in order to channelise the expertise of national and international organization in fields of interest is forging partnership with Institutions/ Organisations/ NGOs at national and international level. This networking with like-minded organization will help in accessing successful techniques and initiatives to achieve common goal of public good.



During year under review MFG has partnered with:

1. Confederation of Indian Industries Western Region
2. Society of Ecological Restoration
3. Dr. Reddy's Foundation

Spreading

the good word Following workshops were conducted in association with various organizations, associations to highlight issues of environmental concerns

1. "Issues in Forest Conservation" in association with Department of Forest
2. "Restoration Ecology Workshop" in collaboration with Society for Ecological Restoration India Chapter
3. "Sugarcane Seminar" in association with Sanjeevani Sahakrai Sakhar Karkhana Ltd., Dharbandhora
4. "Aids at Workplace" in association with Indian Association of Occupation Health



The Annual Day was celebrated in the spirit of partnership by participating in Check Dam Construction at Kirlapal Village. This event was attended by the villagers and also colleagues from our sister concern, Goa Mineral Ore Exporters' Association.

The World Environment Day-2004 was observed with the villagers of Kirlapal village by organizing a snake-awareness drive and screening wildlife related documentaries followed by tree plantation drive in the campus of the Govt. Primary School.



The Foundation financially assisted publication of Konkani play based on AIDS by Mr. Suresh Bayenkar from Surla. It uses a different media for creating awareness about the subject in local language.

Mr. Parag Rangnekar, Programme Officer-Environment was awarded a fellowship of LEAD (Leadership for Environment and Development) India, which supports a mission to create, strengthen and support networks of people and institutions promoting change towards sustainable development development that is economically sound, environmentally responsible and socially equitable. He is a member of the COHORT-11.

The Foundation has been nominated on the Editorial Board of the Goa Board of Secondary and Higher Secondary Education to draft the syllabus for Environment Education and also the Committee of Mines Environment & Mineral Conservation Council.

Efforts for the betterment of the environment and community at large in varied fields has seen various agencies recognize Foundations expertise in varied fields, with NGO's and Govt. Departments inviting us for consultation, advice and collaborations. Initiation of ambitious project meant enhancing our technical and human resource capabilities. Installation of a GIS software and incorporation of more professional staff has done just that.

The list of Ordinary Members as on 31st March 2005

Sesa Goa Ltd.

Sesa Ghor, Post Box No.125, Panaji - 403 001

Damodar Mangalji & Co. Ltd.

Damodar Niwas, Post Box No.32, Panaji - 403 001

V.S. Dempo & Co. Ltd.

Dempo House, Campal, Panaji - 403 001

Dempo Mining Company Ltd.

Dempo House, Campal, Panaji - 403 001

Sociadade de Fomento Indl. Ltd.

Post Box No.31, Margao - 403 601

Chowgule & Co. Ltd.

Chowgule House, Mormugao Harbour, Mormugao - 403 803

Emco Goa Pvt. Ltd.

Post Box No.54, Margao - 403 601

V.M. Salgaocar & Bro. Pvt. Ltd.

Salgaocar House, Post Box No.14, Vasco da Gama - 403 802

M/s Ahiliabai Sardessai

Dempo House, Campal, Panaji - 403 001

Cosme Costa and Sons Pvt. Ltd.

Allinho, Mapusa - 403 507

Timblo Pvt. Ltd.

Kadar Manzil, Po.Box No. 34, Margao - 403 601

D. B. Bandodkar & Sons. Pvt. Ltd.

Atmaram Commercial Complex, Dr. A.B.Road, Panaji - 403 001

Bandekar Bros. Pvt. Ltd.

Suvarna Bandekar Building, Vasco-da-Gama, Goa - 403802



Mineral Foundation
of Goa

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