

DEPARTMENT OF MINES & GEOLOGY

ANNUAL PLAN - 2010 - 2011

INTRODUCTION

Jharkhand is a mineral rich state endowed with 38% mineral resources of the country. It holds an important position on the mineral map of the country owing to its geological and geomorphological configuration. There are more than 30 types of minerals in this state spread over an area of 79,714 square km. There is immense possibility of establishment and development of mineral based industries in the state. The socio-economic development of the state largely depends on the scientific exploration and judicious utilization of the mineral resources of the state.

The main objective of the Department of Mines and Geology is revenue collection, the scientific exploration, development and utilization of the mineral resources for which the Department is committed and putting its consistent effort.

ACHIEVEMENTS

- Geological investigation work was carried out for the exploration of Iron ore, Manganese, Limestone, Pyroxenite, Bauxite and Coal.
 - A composite map of Iron ore occurrences of West Singhbhum district was prepared in which the mining leases of Iron ore were also shown.
 - A composite map of Pyroxenite occurrences of Gumla district was prepared in which the mining leases of Bauxite were also shown.
 - A composite map of Pyroxenite occurrences of East Singhbhum district was prepared in which the mining leases of Pyroxenite were also shown.
 - The purpose of these composite maps was to over the reserve of the deposit by exploratory drilling in rest of the areas.
 - Geological investigation and drilling for the exploration of coal in the Auranga Coal field of Jalta- Parsahi area of Latehar district was carried out for M/s J.S.M.D.C. Ltd.
 - Geological investigation and drilling work for the exploration of Limestone in Sudhi - Armadag area of Ramgarh district was carried out.
 - A composite report for the availability of Bentonite was prepared on the basis of geological works done earlier.
 - The web - enabled GIS system of the Department was updated.
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OBJECTIVES

- To demarcate and plot the important minerals (Iron ore, Limestone, Pyroxenite, Coal & Bauxite) of the state on small scale and rapid assessment of their reserve and quality.
- Creation and up-gradation of mineral data base so that it can be provided to the industrialists/entrepreneurs in time.
- Up-gradation and strengthening of the Remote Sensing Centre so that the areas of illegal mining can be identified easily.
- Skill up-gradation of the technical personates of the Directorate of Geology.
- Creation of addition work force skilled in geological investigation.
- Construction of office buildings in phases manner.

THRUST AREA

- Composite maps regarding of the availability of Bauxite and Limestone in the state.
- Incorporation of more & more modern and advance techniques and systems in the geological investigation works.
- Compilation and publication of the investigation works done earlier.
- Up gradation and strengthening of the Remote Sensing Centre.
- Maintenance of the machines and equipments.
- Enrichment of the Departmental Web-Portal.

2. STATE PLAN SCHEMES

Continuing Scheme

DIRECTORATE OF MINES

2.1 Printing of Transit Challans

To check illegal transportation of minerals transit challans are printed every year.

2.2 Training & Seminar

To attract investors for establishing mineral based industries in the state, workshops and seminars are organized within and outside the state as per need. Officers are sent to attend to training programme at various reputed organizations. They are also sent to attend seminars organized by various prestigious organizations.

2.3 Consultancy Services and contingency expenditure

For the development of Mines and minerals and computations and management of the revenue collection, consultancy services are required. Besides this contingency expenditure are also required to meet the fees of the Lawyers of the Hon'ble Supreme Court of India.

2.4 Strengthening of Mines establishment

Office Expenditure

It is proposed for the contingency expenditure and to meet the payment of the wages to the computer operators and drivers working on contractual and daily basis.

Purchase of Photo copier, computers etc.

It is proposed to purchase computer, Photo copier etc. for official use.

2.5 Repair of Buildings

It is proposed to repair the old buildings at Ranchi and Hazaribag as required during the FY. 2010-11.

2.6 Construction of Buildings

To protect the departmental land at Khanij Nagar from encroachment, constructions of boundary wall is required. There is want of proper accommodation to store the Transit Challan. Accordingly the construction of the boundary wall at departmental land, a godown and drinking water facilities at Khanij Nager is proposed for the financial year 2010-11. An estimate for the same is being prepared by the P.W.D Building department.

DIRECTORATE OF GEOLOGY

2.7 Mineral Exploration, Geological Analysis in laboratory, drilling and consultancy services

In the present field season 2009-10 the Directorate of Geology proposes to map 1930 sq. km. of area on small scale and 4 sq. km area on large scale to explore various minerals such as Lime stone, Iron, Magnetite, Bauxite and Soapstone.

As part of the five year geological exploration plan, in the field season 2010-11 the Directorate of Geology proposes to complete the on going and new exploration works for Iron ore, Bauxite, Pyroxenite, Lime stone, Coal, Quartz and Feldspar and prepare the final map and report their of. With the use of the modern remote sensing techniques, the Bauxite and Lime

stone bearing areas are proposed to be demarcated and plotted on map. Besides these geological programmes will be carried out to explore low volume- high value minerals viz Gold, Diamond etc. Exploratory drillings will be carried out to ascertain the grade and reserve of the deposits.

The samples of the minerals collected during the course of investigation work are sent to the State Geological Laboratory, Hazaribagh for their analysis. For a proper functioning of the laboratory and timely analysis of the samples, routine expenditure and maintenance of the equipments of the laboratory will be required.

2.8 Consultancy Service for Mineral Exploration and Report Writing

For the exploration of minerals and preparation of reports, consultancy services will be taken from specialist organizations/undertakings during the FY. 2010-11.

2.9 Seminar, Trade Fare, Other fares Training and Publication of Report/Booklet/Leaflet

Participation of the technical and other officers of the Directorate in various national and international seminars, workshops and trade fares are essential for the up gradation of their skill and knowledge as such forums provide them opportunities to get in touch with the latest techniques and methods utilized in the exploration of mineral. This also provides suitable platform for dissemination of the information regarding the mineral wealth of the state to attract investment in this sector.

The Directorate of Geology also proposes to publish the reports and mineral booklets for the reserve and quality of various minerals explored during the course of geological works carried out in the state.

2.10 Purchase of Equipments and machines for Geological Exploration, Drilling and Laboratory.

The Directorate of Geology proposes to purchases advanced machines and equipments so that more and more areas can be explored in the minimum possible time maintaining the quality of the work.

The Directorate proposes to develop and strengthen the Remote Sensing Center in to a center of national repute for delineating the availability of mineral resources. For this the Directorate proposes to purchase advanced machines and equipments to make this center effective and delivery oriented.

At the State Geological Laboratory, Hazaribagh the analysis of coal samples are not being carried out for want of total equipments, though the state holds first position w.r.to the coal reserve in the country. Hence in the financial year 2010-11, the Directorate proposed to purchase all

equipments for the analysis of coal as part of the modernization programme of the laboratory.

2.11 Utilization and skill upgradation of post graduate students of different universities by imparting them Field Training for mineral investigation.

The Directorate of Geology will involve the post graduate students of all Universities of the state in the geological exploration works so that they can have field experience of the geological exploration work and the Directorate can positively utilize the human resources in exploration work.

2.12 Repair of existing office buildings /residential quarters and construction of new office building at Ranchi for Remote Sensing Centre

Even after so many years of the formation of this state, a number of regional offices and residential quarters of the Directorate have not been repaired and are in deplorable stage requiring immediate repair. In the financial year 2010-11, the Directorate proposes to repair such buildings.

Presently the Remote Sensing Centre is running in the part of the Office of the Additional Director (Geology) Ranchi as temporary arrangement. As the Remote Sensing Center is proposed to be strengthened, the Directorate proposes to build a separate building for this Center.

2.13 Mineral Investigation and Exploratory Drilling by M/s M.E.C.L

Exploratory drilling is going to be started by M/s M.E.C.L in the Ghatkuri area. Detailed mineral investigation and exploratory drilling will be carried out in the extended area, after the establishment of availability of Iron ore in the area.

3. TRIBAL SUB PLAN

A sum of **Rs. 5.00** lakhs has been earmarked for Tribal Sub Plan out of total proposed outlay of **Rs. 400.00** lakhs during Annual Plan 2010-11.

4. OUTLAY PROPOSED FOR VARIOUS SCHEMES (Mines & Geology)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	State Plan Schemes				
	Directorate of Mines				
	Continuing Scheme				
1	Printing of transit Challans to check illegal	80.00	0.00	0.00	80.00
2	Training & Seminar	10.00	0.00	0.00	10.00
3	Consultancy Services	5.00	0.00	0.00	5.00
4	Strengthening of Mines establishment				
(a)	Office Expenditure	40.00	0.00	0.00	40.00
(b)	Purchase of Photo copier & Fax machines for the Strengthening of the establishment of Directorate of Mines	5.00	0.00	0.00	5.00
6	Repair of Buildings	10.00	0.00	0.00	10.00
7	Construction of Buildings	10.00	0.00	0.00	10.00
	Directorate of Geology				
	Continuing Scheme				
8	Mineral Exploration, Geological Analysis in laborator, Drilling and consultancy services	55.00	0.00	0.00	55.00
9	Consultancy Service for Mineral Exploration and Report writing	1.00	0.00	0.00	1.00
10	Seminar, Trade Fair, other fares Training and publication of Reports/Booklets/Leaflets.	11.00	0.00	0.00	11.00
11	Purchase of Equipments and machines for Geological exploration, Drilling and Laboratory	50.00	0.00	0.00	50.00
12	Utilization and skill upgradation of post graduate students of different Universities by imparting them Field Training for mineral investigation	8.00	5.00	0.00	3.00

13	Repair of existing building/residential quarters and construction of new office building at Ranchi for Remote Sensing Centre	100.00	0.00	0.00	100.00
14	Mineral investigation and Exploratory Drilling by M/s M.E.C.L.	15.00	0.00	0.00	15.00
Grand Total		400.00	5.00	0.00	395.00

SUMMARY (Mines and Geology)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	Earmarked	--	--	--	--
B.	State Share (CSS/CS)	--	--	--	--
C.	State Plan Schemes				
	i. Continuing Schemes	400.00	5.00	0.00	395.00
	ii. New Schemes	--	--	--	--
D.	EAP (if any)	--	--	--	--
E.	Other	--	--	--	--
Grand Total		400.00	5.00	0.00	395.00