

# ANNUAL ADMINISTRATIVE REPORT



## **DIRECTORATE OF GEOLOGY AND MINING** Under Mines & Minerals Department, ● Govt. of Assam ●



**2016-2017**

# Annual Administrative Report

of the  
**Directorate of Geology & Mining, Assam**  
*for the financial year 2016-17.*

## **[ Growth of this Directorate, in brief:**

In 1958, in course of an industrial conference in Assam which was attended by a large number of industrial entrepreneurs, the participants became painfully aware that the statistical data on mineral resources of Assam were almost lacking. Shri C. S. Fox, ret'd. Director of GSI (Geological Survey of India), at the instance of Govt. of Assam, compiled information in 1947 on possibilities of various mineral resources in Assam. Beyond that significant reliable data was available ever at the end of 2<sup>nd</sup> Plan Period. It was in this background that the Mines & Minerals Department of the Govt. of Assam was formed in 1959 followed by the formation of the Directorate of Geology & Mining in 1960.

Historically, the nucleus of the Directorate was actively formed with the creation on 11<sup>th</sup> December, 1956 of a post of Assistant Geologist in the Revenue Department of the State.

In 1960, with the formation of this Directorate, the post of Director and that of an Assistant Geologist along with 1 LDA, 1 Chowkidar and 2 Peons were created. A senior level officer from the GSI, Dr. A.B. Dutta, was brought on contract basis to become the first Director of the new Directorate from 15<sup>th</sup> March, 1960. A small office building and its own laboratory, museum, and library were set up in Rissa Colony, Shillong (1960); From this humble beginning, the Directorate of Geology & Mining had developed into a scientific and investigation department having a total strength of ..... personnel most of whom are either scientific, technical or operational crew and a fleet of vehicles, machineries, and equipments, etc.

At the initial stage this Directorate was attending two matters relating to collection and revision of rate of Oil royalty and other allied revenue matters relating to Coal. But from 1962, it was working for establishment of self-sufficient core to conduct exploratory work in finding out cement grade limestone in Koilajan (Karbi-Anglong), Mamlow (Meghalaya) in 1962; first exploratory drilling (by its own drilling rig) for coal in Laitrengrew (Meghalaya) (1963); and many investigations for collection of precise data on mineral resources, mainly limestone, coal, china clay, etc. in the then undivided Assam (upto mid 1966),..... etc

The 2<sup>nd</sup> phase of growth and development of the Directorate started with the setting up of Hydrogeological wing in the year 1969 and the first exploratory drilling for groundwater resources commenced at Chandrapur in Kamrup district in December, 1970. In the year 1970, the Directorate opened an office at Dibrugarh to look after revenue and other related matters on petroleum and coal.

The beginning of 4<sup>th</sup> Five year Plan shows two-fold increase in strength of technical and operational personnel of the department and also machineries and equipments and activities both in the mineral and groundwater sector were expanded further. After the formation of the new state of Meghalaya, the directorate was bifurcated into Directorate of Geology & Mining, Assam and Directorate of Mineral Resources, Meghalaya and in October, 1974, the office of the Directorate of Geology & Mining, Assam was shifted to Guwahati and since then it is functioning from here. In 30<sup>th</sup> June, 1976, two draft service rules, namely, 'The Assam Geological Service Rule, 1976' and 'The Assam Geology and Mining (Specialist) Service Rule, 1976' were prepared and finally these were published in the Assam Gazette, Part II-A on 17<sup>th</sup> November, 1976, pp. 2603-2625.

Through the years of various activities the Directorate has been successful in discovering, delineating and proving numerous deposits of coal, limestone, china clay and some other minor minerals; as well as it played instrumental role in the establishment of Bokajan Cement Factory. Sustained effort by this Directorate had made the Coal India Ltd. To open up coal mining activities in Dilli Coalfields of the Margherita Group. In North Cachar Hills, this Directorate has been successful in locating vast reserves of limestone. In fact, as a result of the Directorate's scientific investigation and sustained endeavour, number of mini cement plants and a few lime plants were set up by some private entrepreneurs in New Umrangso, Dima Hasao district. The China clay deposits were discovered and investigated by this Directorate in Deopani area, Karbi Anglong district and leased out to private entrepreneurs and in fact a ceramic industry was set up in that region to manufacture various ceramic products utilising the china clay deposits of Deopani.

The groundwater cell of the Directorate has been concentrating in evaluating detailed groundwater resources in various parts of the state.

Investigation of mineral resources, their economic assessment and proper development require long term planning. Geological survey involves time, effort, money as well as physical and mental endeavour on part of a scientist. To search for minerals an earth scientist has to work in inaccessible areas which is not only strenuous but is also hazardous. This exercise goes on not for a few months but for a period of 6 to 7 months each year for several years. This is more true in case of Assam where the potential mineral bearing areas are thickly forested and innovation which are at present lacking.]

## 1. **Mandate of the Department :**

### A. **Functions, role and responsibilities of the Directorate of Geology & Mining, Assam :-**

The Directorate of Geology & Mining, Assam carries out the following tasks:

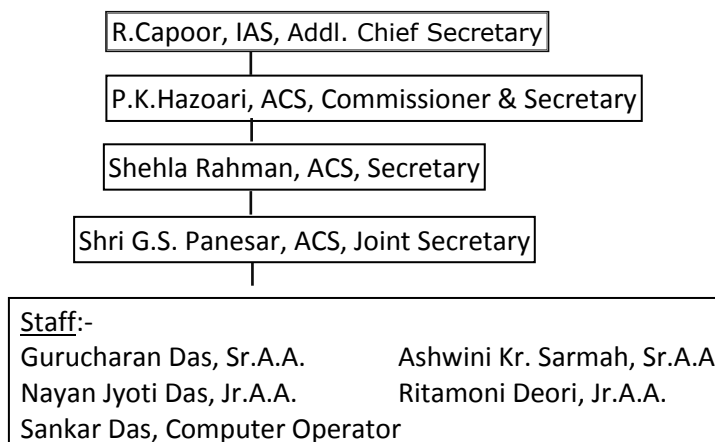
- Exploration of mineral and groundwater resources throughout the State.
  - ❖ Detail Geological Mapping of mineral bearing areas.
  - ❖ Core-drilling of mineral body.
  - ❖ Groundwater survey
  - ❖ Exploratory drilling and production well for groundwater
  - ❖ Collection of mineral and groundwater samples
  - ❖ Laboratory studies with the aim of establishing mineral and groundwater resources of the State.
- Administration of mineral & petroleum throughout the State:-
  - ❖ Grant of Exploration Licenses for minerals and petroleum to various public sector as well as private sector organizations.
  - ❖ Approval of Mining plan of minor minerals.
  - ❖ Grant of Mining leases for minerals and petroleum by the Mines & Minerals Department of the Government of Assam to various public sector as well as private sector organizations.
  - ❖ Optimum mining of mineral resources
  - ❖ It takes care of enforcement and implementation of various relevant Acts & Rules in force by the lessees & licensees of mineral & petroleum.
  - ❖ Regulation and grant of concession of minerals and petroleum as well as assessment and realisation of non-tax revenue to the State exchequer in the form of royalty, rents, etc. from the lessees on minerals & petroleum produced in the State.

### B. **Acts & Rules :-**

- The various Acts & Rules administered by the Department concerning revenue generation are listed in Annexure 1.

## 2. **Description of the organizational structure :-**

### A. **Mines & Minerals Department, Govt. of Assam:-**



## B. Directorate of Geology & Mining, Assam:-

<b>DIRECTOR</b>			
<b>GEOLOGY (55)</b>	<b>MINING (4)</b>	<b>ANALYTICAL (CHEMISTRY) (9)</b>	<b>DRILLING (5)</b>
CHIEF GEOLOGIST (1) JOINT DIRECTOR (3) [4]	JOINT DIRECTOR (1) [1]	DEPUTY CHIEF CHEMIST (1) [1]	CHIEF DRILLING ENGINEER (1) [1]
DY. DIRECTOR(1) SR. GEOLOGIST (4) [5]	MINING ENGINEER(1) [1]	SR. CHEMIST(3) [3]	SR. DRILLING ENGINEER (1) [1]
GEOLOGIST (15) RESIDENT GEOLOGIST (1) PETROLOGIST (1) GEOPHYSICIST (1) [18]	-	-	-
ASSTT GEOLOGIST(28)+ [28]	ASSTT. MINING ENGINEER [1]	CHEMIST(5) [5]	DRILLING ENGINEER (4) [3]

C. The total number of non-gazetted employees (Grade II, Grade III and Grade IV) was .... on 31st March, 2015. (Table I ; Annexure-2).

### Annexure-1

**Acts & Rules administered by the department or under which it functions. (See 1(B) above)**

- ❖ Mines & Minerals (Development & Regulation) Act, 1957
  - ▶ Mineral Concession Rules, 1960.
  - ▶ The Mineral Conservation & Development Rules, 1988
  - ▶ Assam Minor Mineral Concession Rules, 1994.
- ❖ Oilfields (Regulation & Development) Act, 1948
  - ▶ Petroleum & Natural Gas Rules, 1959.
- ❖ The Coal Mines (Nationalization) Act, 1973

### Annexure-2

Table – I  
(Sec. 2(B) above)

**Disposition of the Directorate of Geology & Mining, Assam  
(as on April, 2016)**

Grade - I						
Sl.No.	Name of post	Sanction strength	Man in position	Vacancy position	Grade	Remarks.
1	2	3	4	5	6	7
1	Director	1	--	1	I	
2	Joint Director	4	1	3	I	

3	Chief Geologist	1	--	1		
4	Dy. Chief Chemist	1	--	1		
5	Chief Drilling Engineer	1	--	1		
6	Dy. Director	1	--	1		
7	Senior Geologist	4	--	4		
8	Senior Drilling Engineer	1	1	--		
9	Mining Engineer	1	--	1		
10	Sr. Chemist	2	1	1		
11	Geologist	15	1	14		
12	Petrologist	1	1	--		
13	Asstt. Geologist	28	20	8		
14	Asstt. Mining Engineer	1	--	1		
15	Drilling Engineer	3	1	2		
16	Chemist	5	2	3		
17	Asstt. Engineer (Mech.)	1	--	1		
18	Finance & Accounts Officer	1	1	--		
19	Stenographer Grade-I	1	--	1		
<b>Total =</b>		<b>73</b>	<b>29</b>	<b>44</b>		

<b>Grade - II</b>						
<b>Sl.No.</b>	<b>Name of post</b>	<b>Sanction strength</b>	<b>Man in position</b>	<b>Vacancy position</b>	<b>Grade</b>	<b>Remarks.</b>
1	Dy. Accounts Officer	1	1	--	II	
2	Statistical Officer	1	--	1	II	
3	Officer Surveyor	1	--	1	II	
4	Registrar	1	--	1	II	
5	Superintendent	1	1	--	II	
6	Store Supdt.	1	1	--	II	
7	Store Superintendent	1	1	--	II	
8	Senior Driller	6	2	4	II	
<b>Total =</b>		<b>13</b>	<b>6</b>	<b>7</b>		

<b>Grade - III</b>						
<b>Sl.No.</b>	<b>Name of post</b>	<b>Sanction strength</b>	<b>Man in position</b>	<b>Vacancy position</b>	<b>Grade</b>	<b>Remarks.</b>
1	Cashier	1	1	--	III	
2	Accountant	1	--	1	III	
3	Senior Asstt.	6	4	2	III	
4	Junior Asstt.	13	11	2	III	
5	Assamese Translator	1	--	1	III	
6	Cataloguer	1	1	--	III	
7	Section Cutter	2	2	--	III	
8	Statistical Asstt.	2	2	--	III	
9	Stenographer Grade-III	2	1	1	III	
10	Chief Store Keeper	1	1	--	III	
11	Store Keeper	4	3	1	III	
12	Store-Keeper-cum-Artificer	1	--	1	III	
13	Sr. Surveyor	1	1	--	III	
14	Mine Surveyor	1	1	--	III	
15	Surveyor	6	4	2	III	
16	Senior Draughtsman	2	--	2	III	
17	Draughtsman	2	2	--	III	
18	Tracer	3	2	1	III	
19	Asstt. Chemist	5	3	2	III	
20	Sr. Lab. Technician	2	2	--	III	
21	Laboratory Asstt.	4	4	--	III	
22	Driller	12	9	3	III	
23	Asstt. Driller	19	19	--	III	
24	Rigman	41	31	10	III	
25	Operator	6	2	4	III	
26	Welder	7	5	2	III	
27	Head Mechanic	1	1	--	III	
28	Mechanic	8	3	5	III	
29	Driver	41	28	13	III	
<b>Total =</b>		<b>196</b>	<b>143</b>	<b>53</b>		

<b>Grade - IV</b>						
<b>Sl.No.</b>	<b>Name of post</b>	<b>Sanction strength</b>	<b>Man in position</b>	<b>Vacancy position</b>	<b>Grade</b>	<b>Remarks.</b>
1	Drifty	1	1	--	IV	
2	Jamader Chaprasi	1	1	--	IV	
3	Peon	51	27	24	IV	
4	Chowkider	5	1	4	IV	
5	Mali	1	1	--	IV	
6	Store Helper	2	2	--	IV	
7	Chainman	6	6	--	IV	
8	Laboratory Attendent	3	1	2	IV	
9	Jugali	51	23	28	IV	
10	Handiman	16	7	9	IV	
11	Workshop-Helper	2	1	1	IV	
12	Sweeper	1	--	1	IV	
<b>Total =</b>		<b>140</b>	<b>71</b>	<b>69</b>		

**Annexure-3**

**Table – II**

**(Sec. 2(B) above)**

**Meeting, Training courses, Seminars, Conferences etc. attended by many officers & staff of this Directorate in and outside the State during 2014-15 for capacity building.**

<b>Sl. No.</b>	<b>Name</b>	<b>Name of the Programme/Training, etc</b>	<b>Place</b>	<b>Time Duration</b>
1				
2				
3				
4				
5				
6				
7				