

## 5. Iron ore Deposits:

SL. NO.	NAME OF THE DEPOSIT	DISTRICT	LOCATION	ACCESSIBILITY	OCCURRENCE	CHEMICAL COMPOSITION / QUALITY	RESERVE (million tons)
1.	CHANDARDINGA	Dhubri	Latitude: 26°20'25" N Longitude: 93°03'55" E	Located on the north bank of river Brahmaputra and is about 2 km away from Salkocha Inspection Bungalow on NH 31.	▶ Three bands are found with thicknesses of 49.85 m, 16m, and 53 m.	▶ Made up of variable proportions of hematite and magnetite. ▶ The average composition is – Fe <sub>2</sub> O = 42%, P <sub>2</sub> O <sub>5</sub> = 0.35%, SiO <sub>2</sub> = 4.28% Al <sub>2</sub> O <sub>3</sub> = 0.60%, CaO = 0.08%, MgO = 0.48% S = 0.10%	Total reserve 10.0 Million tons.
2.	LEN GUPARA	Goalpara	Latitude: 26°03'55" N Longitude: 93°28'50" E	15 km away from Goalpara along NH - 37	▶ Occurs mainly on the hilltop forming a prominent ridge in the area. ▶ Two bands are found with a thickness of 10 m and 20 m respectively.	▶ The average composition is – Fe <sub>2</sub> O = 48.39-68.47%, FeO = 4.28-4.31% Al <sub>2</sub> O <sub>3</sub> = 0.16 – 4.01%, SiO <sub>2</sub> = 23.52 – 37.50%, TiO <sub>2</sub> = trace to 1.68%, CaO = trace to 0.46%, MgO = trace to 0.41% P <sub>2</sub> O <sub>5</sub> = trace to 6.20%,	Inferred reserve 7.25 Million tons.
3.	KUMRI	Goalpara	Latitude: 26°25'00" N Longitude: 93°32'44" E	6 km west of Pancharatna.	▶ Exposed locally at western side of the hill. ▶ Two bands are found with a thickness ranging from 10 m to 16 m.	▶ The average composition is – Fe <sub>2</sub> O = 22.79-47.32%, FeO = 11.71-26.79% Al <sub>2</sub> O <sub>3</sub> = 0.56 – 5.02%, SiO <sub>2</sub> = 29.00 – 37.92%, TiO <sub>2</sub> = trace to 0.04%, MgO = trace to 0.29% - 3.33%, P <sub>2</sub> O <sub>5</sub> = 0.66 – 3.66%,	Inferred reserve 1.64 Million tons.

## **6. Glass sand Deposits:**

<b>SL. No.</b>	<b>NAME OF THE DEPOSIT</b>	<b>DISTRICT</b>	<b>LOCATION</b>	<b>ACCESSIBILITY</b>	<b>OCCURRENCE</b>	<b>CHEMICAL COMPOSITION / QUALITY</b>	<b>RESERVE (million tons)</b>
1.	JIAJURI	Nagaon	Latitude: 26°18'00" to 26°19'00"N Longitude: 93°52'55" to 92°54'15" E	3 km southeast of Chapanala, 12 km from Samuguri railway station and 25 km from Nagaon town via NH – 37.	Covers an area of 2.9 Sq.km. However , detailed investigation of the deposit covered an area of 0.552 sq. km.	<ul style="list-style-type: none"> <li>▶ More or less friable felspathic in nature and occasionally variegated in colour due to the presence of ferruginous matters.</li> <li>▶ The average composition is – SiO<sub>2</sub> = 91.21 - 98.93% Al<sub>2</sub>O<sub>3</sub> = 0.63 – 5.08%, Fe<sub>2</sub>O<sub>3</sub> = 0.08 – 0.54 %. TiO<sub>2</sub> = trace to 0.21%,</li> </ul>	Total reserve of glass sand 10.0 Million tons.

**7.Fuller's earth Deposits:**  
**(An aluminum poor montmorillonite clay)**

SL. No.	NAME OF THE DEPOSIT	DISTRICT	LOCATION	ACCESSIBILITY	OCCURRENCE	CHEMICAL COMPOSITION / QUALITY	RESERVE (million tons)
1.	SUBANKHATA AND BHUTANKHUTI	Baksa	Latitude: 26°47'48" to 26°50'00"N Longitude: 91°25'00" to 91°27'46" E	Subankhata is connected with Nalbari by 50km long road via Dhamdhama. Bhutankhuti is just 5 km west of Subankhata.	<ul style="list-style-type: none"> <li>▶ Scattered deposits occur along the bank of Pagladiya River .</li> <li>▶ The shale bands are interbedded with sandstones and thickness ranges from 13 m to 40 m.</li> </ul>	<ul style="list-style-type: none"> <li>▶ It can bleach vegetable oils is not suitable for petroleum refinery.</li> <li>▶ The average composition is – SiO<sub>2</sub> = 52.64% Al<sub>2</sub>O<sub>3</sub> = 8.32%, Fe<sub>2</sub>O<sub>3</sub> = 3.20 % CaO = 1.34% MgO = 0.43%,</li> </ul>	Total inferred reserve is 13 million tons.

## 8. Silliminate Deposits:

SL. No.	NAME OF THE DEPOSIT	DISTRICT	LOCATION	ACCESSIBILITY	OCCURRENCE	CHEMICAL COMPOSITION / QUALITY	RESERVE (million tons)
1.	CHIPILANGSHO	Karbi Anglong	Latitude: 26°12'00" to 26°13'00"N Longitude: 93°12'00" to 93°13'00" E	9 Km away from Phuloni on NH 36	▶ Occurs either in association with gneissic group of rocks or with the Quartz – mica schists of Sillong group of rocks.	▶ Good quality quartz – silliminate schist having about 70% recoverable sillimanite content. ▶ The Al <sub>2</sub> O <sub>3</sub> content in the massive sillimanite ranges from 53.00% to 58.90%, while in quartz – sillimanite schist it ranges from 30.00% to 40.00% (approx.). The assay results after beneficiation of quartz – sillimanite schist are : The average composition is – Al <sub>2</sub> O <sub>3</sub> =55.16%, Fe <sub>2</sub> O <sub>3</sub> =1.38 % MgO = 0.30%, Na <sub>2</sub> O = 0.15% SiO <sub>2</sub> = 38.18% CaO = 0.85% TiO <sub>2</sub> = 1.05% K <sub>2</sub> O = 0.28% L.O.I. = 2.61%	Proved reserve 0.8 million tons