# TABLE-1

# Exploration done by Directorate of Geology and Mining, Assam:

## **1.Coal Deposits:**

| S<br>L.<br>N<br>0. | Name of<br>The Deposit        | DISTRICT  | LOCATION  | ACCESSIBILITY  | OCCURRENCE   | CHEMICAL COMPOSITION / QUALITY  | RESERVE<br>(million tons)   |
|--------------------|-------------------------------|---|---|--|--|---|---|
| 1.                 | Makum Coal<br>Field           | Tinsukia  | Namdang Colliery<br>(27°16'00''N<br>95°51'00''<br>E)<br>Borgolai Colliery<br>(27°16'00''N<br>95°51'00''<br>E)<br>Ledo Colliery<br>(27°18'00''N<br>95°51'00''<br>E)<br>Tipong Colliery<br>(27°16'00''N<br>95°51'00''<br>E) | Can be approached by both rail<br>and roadways. Railway line is<br>linked with the Tinsukia junction.  | <ul> <li>29 Km long and 4.6 Km wide area.</li> <li>Coal bearing rocks belongs to the<br/>Tikak Parbat and Bargolai Formation.</li> </ul>   | Bood quality with low ash and moisture.<br>High sulphur<br>Moisture : 2 - 9%<br>Sulphur: 1 - 4%<br>Fixed carbon: 42 - to 60%<br>Volatile Matter: 38 – 51%<br>Calorific Value: 5035 – 7950 Kcal. / Kg.   | <ul> <li>Total Reserve: 316<br/>Million tones.</li> <li>Proved Reserve:<br/>305 Million Tones</li> </ul>              |
| 2.                 | Dilli<br>Jeypore<br>Coalfield | Partly in<br>Dibrugarh<br>district<br>(Joypore<br>Colliery)<br>and partly<br>in Sivsagar<br>district (Dilli<br>Colliery)<br>separated | Latitude: 27°50'00''<br>to 27°8'30''<br>N<br>Longitude: 95°15'10''<br>to<br>95°15'00''<br>E   | The coalfield is connected by a 12<br>Km road with Namrup railway<br>station. The coalfield can also be<br>approached from Sivsagar via<br>Sonari and from Dibrugarh via<br>Naharkatia and Duliajan. | <ul> <li>Area of 40 km. long and 0.50 km.<br/>Wide.</li> <li>Four distinct geological horizons<br/>belonging to Tikak Parbat Formation<br/>exist in this area where thicker seams<br/>of coal occur towards the bottom.</li> <li>About ten coal seams of various<br/>thickness ranging from 0.50m to 21m<br/>are located in the lower most horizon.</li> </ul> | <ul> <li>Good with low ash but high moisture and<br/>high sulphur</li> <li>Upper coal bearing horizon:<br/>Moisture : 3.7-6.7%; Ash: 5.4-24.9%<br/>Sulphur: 3.2-7.4%;<br/>Fixed carbon: 32.6 – 46.5%<br/>Volatile Matter: 32.5 – 45.5%;<br/>Calorific Value: 5035 – 6020 Kcal. / Kg<br/>Lower coal bearing horizon :<br/>Ioisture : 4.2-6.4%; Ash: 2.1-28.7%</li> </ul> | <ul> <li>Total Reserve is<br/>around 54 Million<br/>tones.</li> <li>Proved Reserve is<br/>32 Million Tones</li> </ul> |

|                    |  | by the Dilli<br>(Disang<br>river.) |   |  |  | Sulphur: 1.7-5.1%;<br>Fixed carbon: 32.9 – 54.9%<br>Volatile Matter: 33.7 – 46.9%;<br>Calorific Value: 5035 – 6020 Kcal. / Kg                            |  |
|--------------------|--|------------------------------------|---|--|--|--|--|
| 3.                 | SARAIPUNG<br>TARAJAN<br>COAL<br>DEPOSITS | Tinsukia                           | Latitude: 27°15′00′′<br>to<br>27°20′00′′<br>N     | 5 Km SW of Bhadoi Panch Ali of<br>Tinsukia district linked with<br>Duliajan-Digboi road. | Coal occurs intermittently along the strike length of 7 Km.  | <ul> <li>Good workable coal.</li> <li>moisture 6.5% Ash.4.7%<br/>Fixed carbon: 44.8%</li> </ul>  | <ul> <li>Probable reserve<br/>estimated to be 0.5<br/>Million Tones</li> </ul>                   |
|                    |  |                                    | Longitude: 95°25'00''<br>to<br>95°30'00''<br>E    |  |  |  |  |
| 4.                 | SHEELVETA                                | Karbi<br>Anglong                   | Latitude: 25°58'25''<br>to<br>26°00'30''<br>N     | 40 Km northwest of Diphu and 110<br>Km southeast of Nagaon on NH-36                      | <ul> <li>Two coal seams separated by carbonaceous shale.</li> <li>Average thickness of coal seam : 2.35m</li> <li>Area: 0.2 sg. Km</li> </ul>  | <ul> <li>Good quality</li> <li>Moisture 10.8 to 16.3%.</li> <li>Fixed carbon: 22.0 to 28.4%<br/>ash content: 7 to 24.4%</li> </ul>                       | <ul> <li>Proved Reserve :0.</li> <li>53 million tones</li> </ul>                                 |
|                    |  |                                    | Longitude: 93°17'30''<br>to<br>93°18'35''<br>E    |  |  |  |  |
| S<br>L.<br>N<br>O. | NAME OF<br>THE DEPOSIT                   | DISTRICT                           | LOCATION  | ACCESSIBILITY  | OCCURRENCE   | CHEMICAL COMPOSITION / QUALITY   | Reserve<br>(million tons)  |
| 5.                 | Koilajan                                 | Karbi<br>Anglong                   | Latitude: 25°58′38′′ N<br>Longitude: 93°33′30′′ E | 8 Km NW of Dilai on Manja-<br>Sarihajan road.  | 1.8 m thick coal seam occurs within<br>the Basal Sandstone Formation at<br>Koliajan Nala covering an area of<br>about 0.4 sq.km.   | Assay result:<br>Moisture8.82%to Ash : 8.24%<br>Fixed Carbon : 32.16%<br>Sulphur : 2%<br>Volatile matter : 50.76%<br>Calorific Value : 7940-8570 Kcal/kg | Total possible reserve<br>is estimated at 0.50<br>million tones.                                 |
|                    |  |                                    |   |  |  | The coal may be used in domestic<br>purpose as coke and also in brick, tea<br>and cement industries.   |  |
| 6.                 | GARAMPANI                                | Dima-<br>Hasao                     | Latitude: 25°30'30'' N<br>Longitude: 93°57'02'' E | Near Timang Basti and can be approached from Umrongsho through a metalled road.          | The coal occurs in association with<br>Barail Sandstone Formation of Jaintia<br>Group of rocks covering an area of 2.5<br>sq.Km. Three coal seams associated<br>with Basal Sandstone are exposed | <ul> <li>Assay result is as follows:<br/>Moisture: 5.9%<br/>Ash: 18.3%</li> <li>Fixed carbon: 39.6%</li> <li>Volatile matter : 36.5 – 47.5%</li> </ul>   | Total possible reserve<br>(within the 2.5 sq.km.<br>area) is estimated at<br>1.00 million tones. |

|    |              |       |                         |                                   | <ul> <li>intermittently along both the banks of Kopili River.</li> <li>The thickness of coal seams varies from 0.30 m to 1.5 m.</li> </ul> | Sulphur : 0.0 - 5.2%<br>Calorific Value : 5790 - 7380 Kcal/kg |                        |
|----|--------------|-------|-------------------------|-----------------------------------|--|---|------------------------|
| 7. | KHOTA ARDA   | Dima- | Latitude: 25°41'00'' N  | The deposit can be approached by  | Two nos. of coal seams separated by  | Assay result is as follows:                                   | The reserve of coal is |
|    | COAL DEPOSIT | Hasao | Longitude: 92°55'00'' E | Dayanamukh – Dihangi road and     | a thin band of carbonaceous shale  | Moisture: 10.6 -12.7%   | 0.167 million tones    |
|    |              |       |                         | situated at 35 km. south of Lanka | are exposed within Kopili Formation  | Ash: 3.8 – 24.8%  |                        |
|    |              |       |                         | railway station and 93 km. away   | at Phanglangsho nala over an area of   | Fixed carbon: $30.9 - 34.5\%$                                 |                        |
|    |              |       |                         | from the district HQ Hatlong.     | about 1.5 sq. Km. The thickness of   | Volatile matter : 34.8 – 44.7 %                               |                        |
|    |              |       |                         |                                   | m  | The deposit is economically viable for                        |                        |
|    |              |       |                         |                                   |  | open cast mining  |                        |
|    |              |       |                         |                                   |  | oport oddet timinig.  |                        |
| 8. | DITHOR COAL  | Dima- | Latitude: 25°26'40'' N  | The deposit is located near       | A small band of upper Eocene coal  | The proximate analysis of the coal on air                     | Indicated reserve of   |
|    | DEPOSIT      | Hasao | Longitude: 92°27'30'' E | Umrangsho and can be              | occurs within Kopili Formation of  | dried basis shows as follows:                                 | 0.52 million tones.    |
|    |              |       |                         | approached by 6 km. long forest   | Jaintia Group of rocks. The thickness  | Moisture: 6.9 – 8.3 %   |                        |
|    |              |       |                         | road from Lanka – Garampani       | of coal seams varies from 0.20 m to  | Ash: 15.0 – 70.6 %  |                        |
|    |              |       |                         | Road.                             | 0.85 m.  | Fixed carbon: 24.6 – 41.8 %                                   |                        |
|    |              |       |                         |                                   |  | Volatile matter : 32.9 – 40.7%                                |                        |

## 2.Limestone Deposits:

| SL.<br>No. | NAME OF THE<br>DEPOSIT | DISTRICT | Lo         | CATION                    | ACCESSIBILITY                | OCCURRENCE                            | CHEMICAL COMPOSITION /<br>QUALITY            | RESERVE<br>(million tons) |
|------------|------------------------|----------|------------|---------------------------|------------------------------|---------------------------------------|--|---------------------------|
| 1.         | DILLAI PARBAT          | Karbi    | Latitude:  | 25°49′54′′ to             | Connected by metalled road   | Dillai Parbat Deposit is divided into | Cement grade                                 | Proved reserve:           |
|            | DEPOSIT                | Anglong  |            | 26°01′00′′ N              | about 19 Km from Bokajan     | two blocks, viz., East block and      | Weighted average composition:<br>CaO: 40,72% | 32.41 million             |
|            |                        |          | Longitude: | 93°34′40′′ to             | Taliway Station.             | NOTHI DIOCK.                          | MgO: 1.04%.                                  | lones                     |
|            |                        |          |            | 93°35′50′′E               |                              |                                       |  |                           |
| 2.         | SHEELVETA              | Karbi    | Latitud    | e: $26^{\circ}00'00''$ to | On NH 36.                    | Small bands of cement grade           | Cement grade                                 | Probable reserve:         |
|            | DEPOSIT                | Anglong  | 26°00′3    | 36" N                     | 122 Km from Nagaon and 37 Km | limestone occur.                      | Weighted average composition is              | 2 million tones.          |
|            |                        |          | Longitude: | 93°17′35′′ to             | from Diphu railway station.  |                                       | CaO: 45.0%                                   |                           |
|            |                        |          | Ū          | 93°20′25′′E               |                              |                                       | MgO: 2.0 – 2.01%.                            |                           |
| 3.         | KOILAJAN               | Karbi    | Latitude:  | 25°59′48′′ N              | 25 Km from Dimapur railway   | Small to medium bands of limestone    | Cement grade                                 | Proved reserve:           |
|            | DEPOSIT                | Anglong  |            |                           | station.                     | occur.                                | Weighted average composition is              | 30 million tones          |
|            |                        |          | Longitude: | 93°33'40'' E              |                              |                                       | CaO: 45.30% - 47.44%,                        |                           |

|    |                             |            |   |   |  | Fe <sub>2</sub> O <sub>3</sub> :0.98-2.78%, Al <sub>2</sub> O <sub>3</sub> : 0.90-<br>3.75%,<br>MaO: 0.81 –1.59%   |  |
|----|-----------------------------|------------|---|---|--|--|--|
| 4. | New<br>Umrongsho<br>Deposit | Dima-Hasao | Latitude: 25°31'00" to<br>25°33'00" N<br>Longitude: 92°56'00" to<br>92°49'00"E  | Near 18 Km post of<br>Garampani -Lanka road.                          | Two bands of limestone 30m and<br>50m thickness intervened by shale<br>band.                                   | <ul> <li>Cement grade</li> <li>Weighted average composition is<br/>CaO: 47.00% - 50.43%,<br/>Fe<sub>2</sub>O<sub>3</sub>:2.92-21.74%, MgO: 0.00 –<br/>2.85%. Al<sub>2</sub>O<sub>3</sub>: 1.53-14.0%,<br/>SiO<sub>2</sub>:1.96-11.63%,L.O.I: 16.47-<br/>39.35%.</li> </ul> | Proved reserve:<br>360 million tones       |
| 5. | 16™ Км<br>В∟оск             | Dima-Hasao | Latitude: 25°32'22" to<br>25°34'30" N<br>Longitude: 92°46'20" to<br>92°46'25" E | In Umrongsho.<br>6 Km from Umrongsho and 12<br>Km from Lanka          | <ul> <li>Covers a total area of 1.07 sq.Km.<br/>where the total thickness of<br/>limestone is 80 m.</li> </ul> | <ul> <li>Weighted average composition:<br/>CaO: 46.84%, SiO<sub>2</sub>: 1.96-11.63%,<br/>MgO: 2.1%, Fe<sub>2</sub>O<sub>3</sub>: 2.92-21.74%</li> </ul>   | Proved reserve:<br>44 million tones        |
| 6. | Juipahar<br>Deposit         | Dima-Hasao | Latitude: 25°32'20" to<br>25°34'40" N<br>Longitude: 92°46'10" to<br>92°48'10" E | Near Umrongsho-Lanka road in<br>between 22 Km post and 23 km<br>post. | Occupies an area of about 6.5 sq.<br>Km.   | <ul> <li>Weighted average composition:<br/>CaO: 45 %<br/>MgO: 1.68 %.</li> </ul>   | Proved reserve:<br>184.00 million<br>tones |

# 3.Granite Deposits:

| S∟<br>No | NAME OF THE<br>DEPOSIT | DISTRICT      | LOCATION   | ACCESSIBILITY  | CHEMICAL COMPOSITION / QUALITY   | <b>Reserve</b><br>(million tons)              |
|----------|------------------------|---------------|--|--|--|---|
| 1.       | Манамауа               | Karbi Anglong | Latitude: 26°12′95′′ N<br>Longitude: 93°04′00′′ E                  | Situated near Dokmoka beside NH<br>36 and 92 Km away from Diphu. | <ul> <li>Pink Granite.</li> <li>Massive, hard and fractured in nature.</li> </ul>          | Proved reserve: 30 million cubic meter.       |
| 2.       | Centre Bazar           | Karbi Anglong | Latitude: 26°17'15'' N<br>Longitude: 93°09'30''<br>to 93°10'04'' E | Located beside NH 36 60 Km.<br>away from Diphu.                  | <ul> <li>Pink Granite.</li> <li>Massive, hard and fractured in nature.</li> </ul>          | Estimated reserve: 13 million<br>Cubic meter. |
| 3.       | Bellughat              | Karbi Anglong | Latitude: 26°35′00′′ to<br>26°35′10′′ N<br>Longitude: 93°45′00′′   | 14 km. away from Dokomoka along NH 36.                           | <ul> <li>Light colourd, coarse to medium grained,<br/>massive and gray granite.</li> </ul> | Estimated reserve: 2 million<br>Cubic meter.  |

|          |                        |               | to 93°10′01'' E  |  |   |   |
|----------|------------------------|---------------|--|--|---|---|
|          |                        |               |  |  |   |   |
| 4.       | SILONIJAN              | Karbi Anglong | Latitude: 26°19'25'' to<br>26°20'20'' N<br>Longitude: 93°44'00''<br>to 93°45'00'' E    | The area is connected by an all weather road stretching west of proper Silonijan along NH 39.  | Massive, dark pink, coarse and fractured with<br>hypidiomorphic texture and located is an<br>isolated pocket. | Detail estimate is yet to be done.            |
| 5.       | Borjuri                | Karbi Anglong | Latitude: 26°03′30′′ N<br>Longitude: 93°03′25′′ E                                      | The area is connected by a fair<br>weather road of 3 km stretching<br>from Kathiatoli – Salna road and<br>situated at a distance of 20 km from<br>Nagaon and about 180 km from the<br>district H.Q. Diphu. | Black in colour, hard, massive, fine grained<br>and well fractured.   | Detail estimate is yet to be done.            |
| 6.       | DUDHKURI HILL          | Kamrup        | Latitude: 26°00′10′′ N<br>Longitude: 91°16′15′′ E                                      | Nearby Boko and about 55 km west of Guwahati along NH 37.  | <ul> <li>Light Pink.</li> <li>Hard and massive in nature.</li> </ul>  | Detail estimate is yet to be done.            |
| 7.       | AGCHIA HILL            | Kamrup        | Latitude: 26°00'80'' N<br>Longitude: 91°17'00'' E                                      | Situated at a distance of 50 km west of Guwahati along NH 37.  | <ul> <li>Pink Granite.</li> <li>Hard and massive in nature</li> </ul>   | Detail estimate is yet to be done.            |
| 8.       | Damal-<br>Saplengkata  | Goalpara      | Latitude: 26°00'24"<br>to 26°02'12" N<br>Longitude: 90°29'40" to<br>90°31'13" E        | 8 km south of Agia.  | <ul> <li>Greenish black.</li> <li>Hard and massive in nature.</li> </ul>                                      | Detail estimate is yet to be done.            |
| 9.       | Kakira                 | Goalpara      | Latitude: 26°03'00"<br>to 26°04'14''' N<br>Longitude: 90°34'35''<br>to<br>90°34'58'' E | 3 km away from Balbola an about<br>17 km from Goalpara town.   | <ul> <li>Greenish black</li> <li>Hard, massive granite.</li> </ul>  | Probable Reserve: 300 million<br>cubic meter. |
| S∟<br>No | NAME OF THE<br>DEPOSIT | DISTRICT      | LOCATION   | ACCESSIBILITY  | CHEMICAL COMPOSITION / QUALITY  | RESERVE<br>(million tons)                     |
| 10.      | Khutamari              | Goalpara      | Latitude: 26°31'27"<br>to 26°31'40''' N<br>Longitude: 90°30'50''<br>to<br>90°31'00'' E | 14 km SW of Goalpara and 6 km<br>away from Pancharatna   | <ul> <li>Black Granite.</li> <li>Hard, massive granite.</li> </ul>  | Probable Reserve: 0.70 Million cubic meter.   |
| 11       | PAGLATEK               | Goalpara      | Latitude: 26°10'48"<br>to 26°11'20'" N   | 16 Km southwest of Goalpara and 8 km Away from Pancharatna   | <ul> <li>Black Granite.</li> <li>Hard, massive granite.</li> </ul>  | Estimated Reserve: 0.80 million cubic meter.  |

| Longitude: 90°31′25″ |                                |
|----------------------|--------------------------------|
| to 90°31′36″ E       | Detail work is yet to be done. |

#### 4. CHINA CLAY DEPOSITS:

| Sl.<br>No. | NAME OF<br>THE<br>DEPOSIT | DISTRICT      | LOCATION   | Accessibility  | OCCURRENCE  | CHEMICAL COMPOSITION / QUALITY  | Reserve<br>(million<br>tons)                         |
|------------|---------------------------|---------------|--|--|---|---|--|
| 1.         | UPPER<br>DEOPANI          | Karbi Anglong | Latitude: 26°14'27"<br>to 26°14'39"' N<br>Longitude: 93°45'54"<br>to 93°46'59" E | 7.5 Km west of Safapani,<br>Safapani is 24 Km from<br>Bokajan railway station. | <ul> <li>Two good deposits at 500 m apart.</li> <li>Both slacking &amp; non-slacking varieties present.</li> <li>Block-I: area = 0.4 sq. Km.</li> <li>Block-II: area = 0.043 sq. Km.</li> </ul> | <ul> <li>Good quality.</li> <li>White Grey.</li> <li>Soft.</li> <li>Block – I : 38.8% clay.</li> <li>Block – II : 84% clay</li> <li>The clay of block – I is suitable for<br/>white – wares only after<br/>blending with plastic clay<br/>whereas the clay of Block – II is<br/>suitable for ceramic ware<br/>manufacturing.</li> </ul> | Proved<br>reserve: 0.74<br>million tones.            |
| 2.         | Sheelveta                 | Karbi Anglong | Latitude: 26°08'00'' N<br>Longitude: 93°18'00'' E                                | Well connected by metal road to NH 36.   | Covers 0.25 Sq.Km.  | <ul><li>Color is white to dull white.</li><li>Clay content: 27%.</li></ul>  | Total reserve:<br>0.06 million<br>tones.             |
| 3.         | Silonijan                 | Karbi Anglong | Latitude: 26°17'45"<br>to 26°22'15"' N<br>Longitude: 93°46'18"<br>to 93°52'06" E | 8 Km from NH-39 near<br>Silonijan.   | <ul> <li>Covers an area of 5 sq.</li> <li>Km.</li> <li>Thickness ranges from 3–<br/>6 m.</li> </ul>   | <ul> <li>Color is white to dull white.</li> <li>Slacking in nature.</li> <li>Can be used in ceramic ware after washing.</li> </ul>  | Probable<br>reserve: 0.2<br>million<br>tones.tonnes. |

## 5.Iron ore Deposits:

| Sl.<br>No. | NAME OF THE<br>DEPOSIT | DISTRICT | LOCATION  | ACCESSIBILITY   | OCCURRENCE   | CHEMICAL COMPOSITION /<br>QUALITY  | RESERVE<br>(million<br>tons)                    |
|------------|------------------------|----------|---|---|--|--|---|
| 1.         | Chandardinga           | Dhubri   | Latitude: 26º20/25// N<br>Longitude: 93º03/55// E                         | Located on the north bank of river<br>Brahmaputra and is about 2 km<br>away from Salkocha Inspection<br>Bunglow on NH 31. | Three bands are found<br>with thicknesses of 49.85<br>m, 16m, and 53 m.  | <ul> <li>Made up of variable proportions of hematite and magnetite.</li> <li>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%</li> </ul>  | Total<br>reserve<br>10.0<br>Million<br>tons.    |
| 2.         | LEN GUPARA             | Goalpara | Latitude: 26º03/55 <sup>//</sup> N<br>Longitude: 93º28/50 <sup>//</sup> E | 15 km awa7 from agia along NH -<br>37   | <ul> <li>Occurs mainly on the hilltop forming a prominent ridge in the area.</li> <li>Two bands are found with a thickness of 10 m and 20 m respectively.</li> </ul> | <ul> <li>The average composition is –<br/>Fe<sub>2</sub>O=48.39-68.47%, FeO =<br/>4.28-4.31% Al<sub>2</sub>O<sub>3</sub> = 0.16 –<br/>4.01%, SiO<sub>2</sub> = 23.52 –<br/>37.50%, TiO<sub>2</sub> = trace to<br/>1.68%,<br/>CaO = trace to 0.46%, MgO<br/>= trace to 0.41% P<sub>2</sub>O<sub>5</sub>=<br/>trace to 6.20%,</li> </ul> | Inferred<br>reserve<br>7.25<br>Million<br>tons. |
| 3.         | Kumri                  | Goalpara | Latitude: 26º25/00// N<br>Longitude: 93º32/44// E                         | 6 km west of Pancharatna.   | <ul> <li>Exposed legally at<br/>western side of the hill.</li> <li>Two bands are found with<br/>a thickness ranging from<br/>10 m to 16 m.</li> </ul>                | <ul> <li>The average composition is –<br/>Fe<sub>2</sub>O=22.79-47.32%, FeO =<br/>11.71-26.79% Al<sub>2</sub>O<sub>3</sub> = 0.56<br/>– 5.02%, SiO<sub>2</sub> = 29.00 –<br/>37.92%, TiO<sub>2</sub> = trace to<br/>0.04%,<br/>MgO = trace to 0.29% –<br/>3.33%,<br/>P<sub>2</sub>O<sub>5</sub>= 0.66 – 3.66%,</li> </ul>              | Inferred<br>reserve<br>1.64<br>Million<br>tons. |

## 6. Glass sand Deposits:

| SL. NO. | Name of the<br>Deposit | DISTRICT | LOCATION  | ACCESSIBILITY   | OCCURRENCE  | CHEMICAL COMPOSITION /<br>QUALITY   | RESERVE<br>(million<br>tons)                               |
|---------|------------------------|----------|---|---|---|---|--|
| 1.      | JIAJURI                | Nagaon   | Latitude: 26°18′00″ to<br>26°19′00″N<br>Longitude: 93°52′55″ to<br>92°54′15″<br>E | 3 km southeast of Chapanala,<br>12 km from Samuguri railway<br>station and 25 km from<br>Nagaon town via NH – 37. | Covers an area of 2.9<br>Sq.km. However , detailed<br>investigation of the deposit<br>covered an area of 0.552<br>sq. km. | <ul> <li>More or less friable felspathic<br/>in nature and occasionally<br/>variegated in colour due to<br/>the presence of ferruginous<br/>matters.</li> <li>The average composition is –<br/>SiO<sub>2</sub> = 91.21 - 98.93%<br/>Al<sub>2</sub>O<sub>3</sub> = 0.63 - 5.08%,<br/>Fe<sub>2</sub>O<sub>3</sub> = 0.08 - 0.54 %.<br/>TiO<sub>2</sub> = trace to 0.21%,</li> </ul> | Total<br>reserve of<br>glass sand<br>80.0 Million<br>tons. |

# **<u>7.Fuller's earth Deposits:</u>** (An aluminum poor montmorillonite clay)

| Sl.<br>No. | NAME OF THE<br>DEPOSIT           | DISTRICT | LOCATION   | Accessibility   | OCCURRENCE   | Reserve<br>(million<br>tons)                        |
|------------|----------------------------------|----------|--|---|--|---|
| 1.         | Subankhata<br>and<br>Bhutankhuti | Baksa    | Latitude: 26º47/48// to<br>26º50/00//N<br>Longitude: 91º25/00// to<br>91º27/46// E | Subankhata is connected with<br>Nalbari by 50km long road via<br>Dhamdhama. Bhutankhuti is<br>just 5 km west of Subankhata. | <ul> <li>Scattered deposits occur<br/>along the bank of<br/>Pagladiya River .</li> <li>The shale bands are<br/>interbeded with<br/>sandstones and thickness<br/>ranges from 13 to 40 m.</li> </ul> | Total inferred<br>reserve is<br>13 million<br>tons. |

# 8. Silliminate Deposits:

| SL. NO. | NAME OF THE<br>DEPOSIT | DISTRICT      | LOCATION   | ACCESSIBILITY                      | OCCURRENCE   | CHEMICAL COMPOSITION /<br>QUALITY   | RESERVE<br>(million<br>tons)          |
|---------|------------------------|---------------|--|------------------------------------|--|---|---------------------------------------|
| 1.      | Chipilangsho           | Karbi Anglong | Latitude: 26°12′00″ to<br>26°13′00″N<br>Longitude: 93°12′00″ to<br>93°13′00″ E | 9 Km away from<br>Phuloni on NH 36 | Occurs either in association<br>with gneissic group of rocks<br>or with the Quartz – mica<br>schists of Sillong group of<br>rocks. | <ul> <li>Good quality quartz – silliminate sc hist having about 70% recoverable sillimanite content.</li> <li>The Al<sub>2</sub>O<sub>3</sub> content in the massive sillimanite ranges from 53.00% to 58.90%, while in quart – sillimanite schist it range from 30.00% to 40.00% (approx .) The assay results after benification 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%, NaO<sub>2</sub> = 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%</li> </ul> | Proved reserve<br>0.8 million<br>tons |