



**Geo Referenced Cadastral Map of**  
**T.C.No: 5 of 1953**  
**Lease :~ SEM DENOMINACAO ESPECIAL**  
**Situated in Village Patiém of Sanguem Taluka,**  
**South Goa District, Goa State.**

**Area as written on Lease Planta :~ 95.0900 Ha.**  
**Actual area after DGPS survey :~ 93.9901 Ha.**

**SURVEYED & PREPARED BY**  
**M/s.GEOFINY TECHNOLOGIES (P) LIMITED**  
 # 352/B, RAJIV GANDHI SALAI (OMR), TAMBARAM TALUK,  
 CHENNAI - 600 119,  
 Empanelled by  
 Directorate of Mines and Geology  
 Govt. of Goa, Panaji  
 Wide Order No.01/ 593/ 10-Mines/ 203 Dated :-05-04-2013

Survey done on 21,25 May 2013 | FILE NAME :GEOFINY/JUNE/GOA | DWG NO:PR51\17E

**CERTIFICATE**

This is to certify that the lease boundary pillars of T.C.No. 5 of 1953 have been surveyed & fixed on the ground by using Total Station and the same are surveyed by using DGPS (Differential Global Positioning System).

*Sudhansu Sekhar Mahato* 30/08/13  
**Mr. SUDHANGSU SEKHAR MAHATO**  
 (Mines Manager)

**CERTIFICATE**

This is to certify that the boundary pillars of T.C.No. 5 of 1953, as shown by Mr. Sudhansu Sekhar Mahato (Mines Manager) has been surveyed by our team led by Mr. K. Velmurugan using DGPS (Differential Global Positioning System) instruments. The lease map and pillar locations have been verified, survey conducted and plans prepared as per requirement of IBM circular No.2 /2010 Dated 06-04-2010.

For Geofiny Technologies (P) Ltd.  
*K. Velmurugan*  
**Mr. K. Velmurugan**  
 ( Geologist )

|    | LATITUDE           | LONGITUDE          | EASTING    | NORTHING    |
|----|--------------------|--------------------|------------|-------------|
| 1  | 15° 14' 47.6585" N | 74° 12' 55.1266" E | 415735.442 | 1685749.972 |
| 2  | 15° 14' 57.8681" N | 74° 12' 40.3785" E | 415296.626 | 1686065.267 |
| 3  | 15° 14' 41.2962" N | 74° 12' 33.0044" E | 415074.802 | 1685556.866 |
| 3a | 15° 14' 36.2000" N | 74° 12' 35.6800" E | 415154.719 | 1685400.091 |
| 4  | 15° 14' 32.5539" N | 74° 12' 37.6965" E | 415213.800 | 1685287.738 |
| 4a | 15° 14' 31.2200" N | 74° 12' 34.6900" E | 415124.627 | 1685247.456 |
| 5  | 15° 14' 27.0028" N | 74° 12' 24.8134" E | 414828.855 | 1685118.567 |
| 6  | 15° 14' 17.3754" N | 74° 12' 22.6253" E | 414762.501 | 1684822.986 |
| 7  | 15° 14' 12.2220" N | 74° 12' 36.5424" E | 415177.111 | 1684663.886 |
| 8  | 15° 14' 22.4838" N | 74° 13' 4.8865" E  | 416023.814 | 1684975.393 |

| SURVEY NUMBERWISE AREA WITHIN MINING LEASE |                       |         |
|--|-----------------------|---------|
| Village                                    | Survey No. Area (Ha.) |         |
| Patiem                                     | 1(P)                  | 4.5711  |
|  | 2(P)                  | 1.2284  |
|  | 5/1                   | 11.8069 |
|  | 5/2                   | 11.2629 |
|  | 5/3                   | 5.3323  |
|  | 5/4                   | 9.5977  |
|  | 6                     | 13.9229 |
|  | 7 (P)                 | 6.8116  |
|  | 8 (P)                 | 0.2402  |
|  | 9 (P)                 | 8.4186  |
|  | 10                    | 9.3420  |
| Tudou                                      | 11 (P)                | 4.3397  |
|  | 22 (P)                | 1.9957  |
|  | 26 (P)                | 1.0100  |
|  | 27 (P)                | 0.1726  |
|  | 23 (P)                | 0.4866  |
|  | 24 (P)                | 1.1643  |
|  | Nallah                | 0.6526  |
| Road                                       | 1.6340                |         |
| <b>TOTAL</b>                               | <b>93.9901</b>        |         |

| LEGEND |                                   |
|--------|-----------------------------------|
|        | DGPS POINT OF LEASE BOUNDARY      |
|        | LEASE BOUNDARY AS PER DGPS SURVEY |
|        | VILLAGE BOUNDARY                  |
|        | SURVEY NO. BOUNDARY               |
|        | ROAD                              |
|        | NALA / RIVER                      |
|        |                                   |

|   |                             |
|---|-----------------------------|
| Directorate of Mines & Geology, Panaji - Goa. |                             |
| Checked By                                    | Certified By                |
| Surveying Officer                             | Director of Mines & Geology |