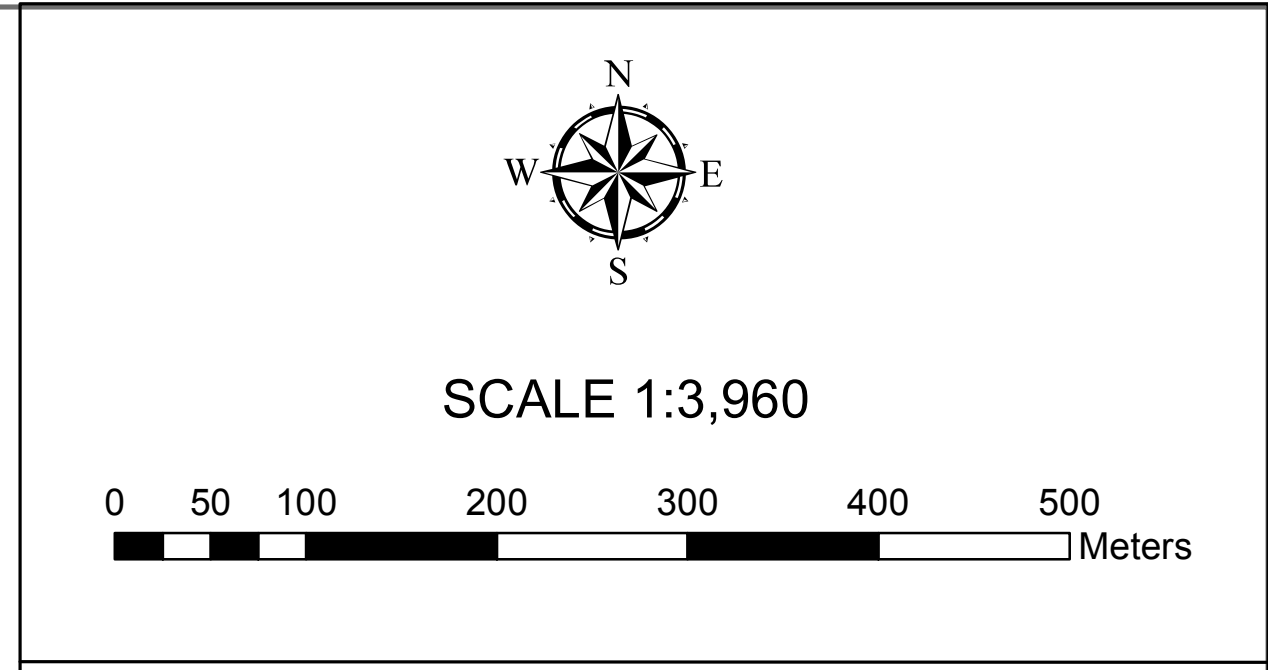
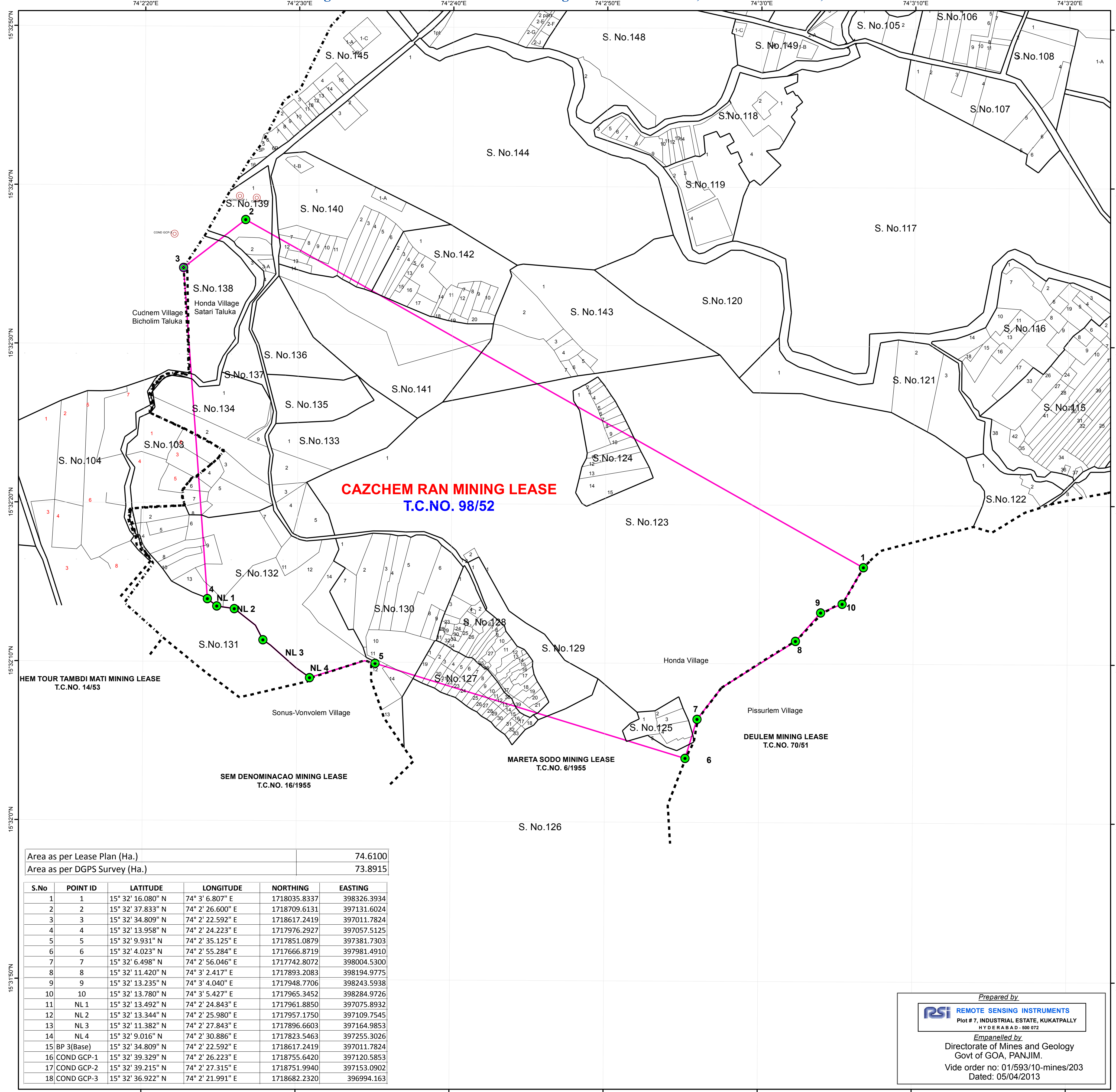
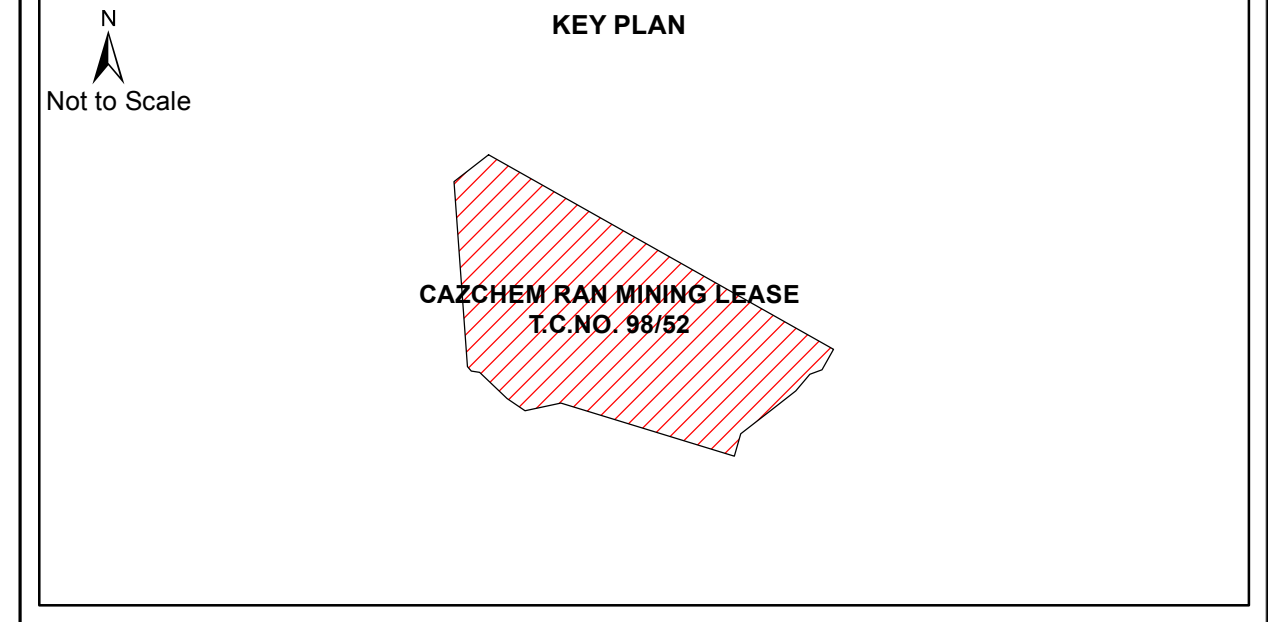


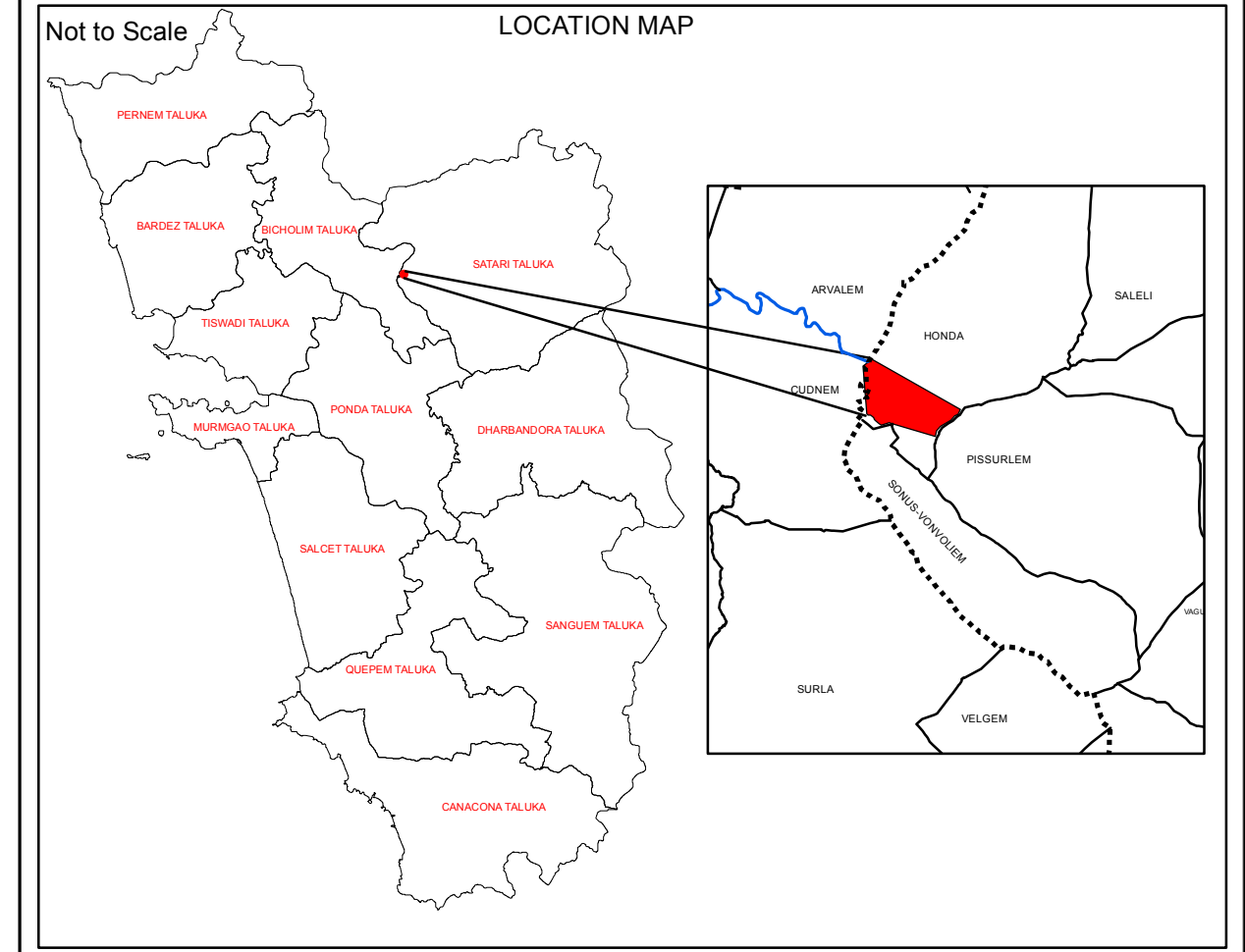
**CHOWGULE AND COMPANY PRIVATE LIMITED, CHOWGULE HOUSE, MORMUGAO HARBOUR-GOA.**  
**Geo Referenced Cadastral Map of Cazchem Ran Mining Lease, bearing T.C. No. 98 of 1952, situated**  
**in Onda Village of Sattari Taluka and Cudnem Village of Bicholim Taluka, North Goa District, Goa State**



- Legend**
- DGPS POINT OF LEASE BOUNDARY
  - LEASE BOUNDARY AS PER DGPS SURVEY
  - SURVEY No BOUNDARY
  - SUB-DIVISION OF THE SURVEY No
  - - - TALUKABOUNDARY
  - - - VILLAGE BOUNDARY
  - ⊗ BASE STATION
  - ⊙ GROUND CONTROL POINTS



**DATUM : WGS 84**  
**PROJECTION : UTM\_Zone\_43N**



Area as per Lease Plan (Ha.)	74.6100
Area as per DGPS Survey (Ha.)	73.8915

S.No	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
1	1	15° 32' 16.080" N	74° 3' 6.807" E	1718035.8337	398326.3934
2	2	15° 32' 37.833" N	74° 2' 26.600" E	1718709.6131	397131.6024
3	3	15° 32' 34.809" N	74° 2' 22.592" E	1718617.2419	397011.7824
4	4	15° 32' 13.958" N	74° 2' 24.223" E	1717976.2927	397057.5125
5	5	15° 32' 9.931" N	74° 2' 35.125" E	1717851.0879	397381.7303
6	6	15° 32' 4.023" N	74° 2' 55.284" E	1717666.8719	397981.4910
7	7	15° 32' 6.498" N	74° 2' 56.046" E	1717742.8072	398004.5300
8	8	15° 32' 11.420" N	74° 3' 2.417" E	1717893.2083	398194.9775
9	9	15° 32' 13.235" N	74° 3' 4.040" E	1717948.7706	398243.5938
10	10	15° 32' 13.780" N	74° 3' 5.427" E	1717965.3452	398284.9726
11	NL 1	15° 32' 13.492" N	74° 2' 24.843" E	1717961.8850	397075.8932
12	NL 2	15° 32' 13.344" N	74° 2' 25.980" E	1717957.1750	397109.7545
13	NL 3	15° 32' 11.382" N	74° 2' 27.843" E	1717896.6603	397164.9853
14	NL 4	15° 32' 9.016" N	74° 2' 30.886" E	1717823.5463	397255.3026
15	BP 3(Base)	15° 32' 34.809" N	74° 2' 22.592" E	1718617.2419	397011.7824
16	COND GCP-1	15° 32' 39.329" N	74° 2' 26.223" E	1718755.6420	397120.5853
17	COND GCP-2	15° 32' 39.215" N	74° 2' 27.315" E	1718751.9940	397153.0902
18	COND GCP-3	15° 32' 36.922" N	74° 2' 21.991" E	1718682.2320	396994.163

Prepared by  
**RSI REMOTE SENSING INSTRUMENTS**  
 Plot # 7, INDUSTRIAL ESTATE, KUKATPALLY  
 HYDERABAD - 500 072

Empanelled by  
 Directorate of Mines and Geology  
 Govt of GOA, PANJIM.  
 Vide order no: 01/593/10-mines/203  
 Dated: 05/04/2013

**Certificate by Mines Manager**

This is to certify that the lease boundary pillars of T.C. No. 98 of 1953 have been surveyed and fixed on the ground by using Total Station and the same are surveyed by using DGPS (Differential Global Positioning System).

Mr.A.N.SHETYE  
(Mines Manager)

**Certificate by Accredited Agency**

This is to certify that the lease boundary pillars of T.C.No. 98 of 1953, shown by Mr.A.N.SHETYE (Mines Manager) has been surveyed by our team led by Shri.Ch Sivaiah 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 Remote Sensing Instruments  
 Shri. B.V Ramana Kumar  
(General Manager)

Directorate of Mines and Geology - Panaji -Goa	
Checked by	Certified by
Surveying officer	Director of Mines and Geology

Date of DGPS survey : 27th May, 2013