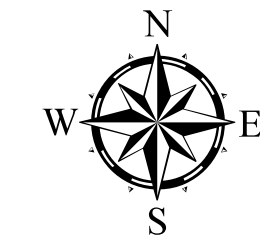
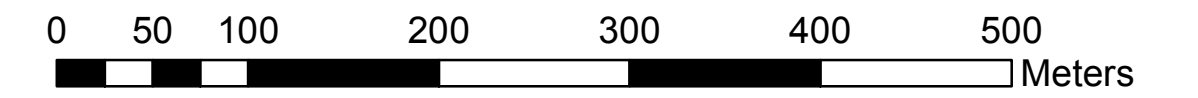


**CHOWGULE AND COMPANY PRIVATE LIMITED, CHOWGULE HOUSE, MORMUGAO HARBOUR-GOA.**  
**Geo Referenced Cadastral Map of Pale Dongor Mining Lease, bearing T.C. No. 31 of 1953, situated**  
**in Pale & Velguem Villages of Bicholim Taluka, North Goa District, Goa State.**

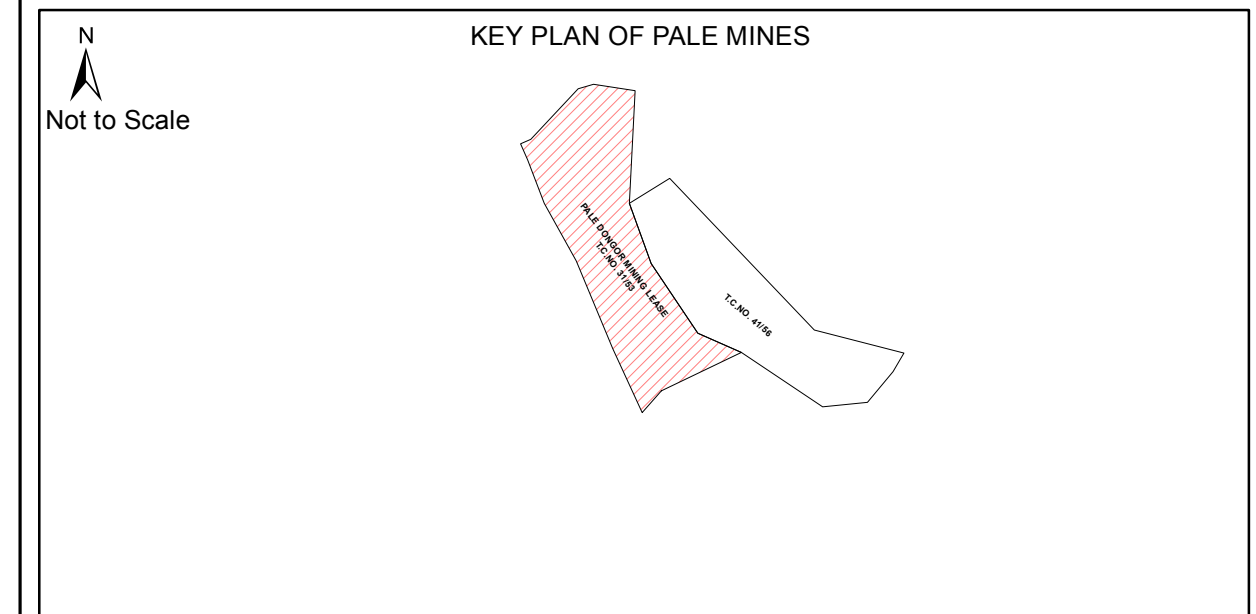


SCALE 1:3,960

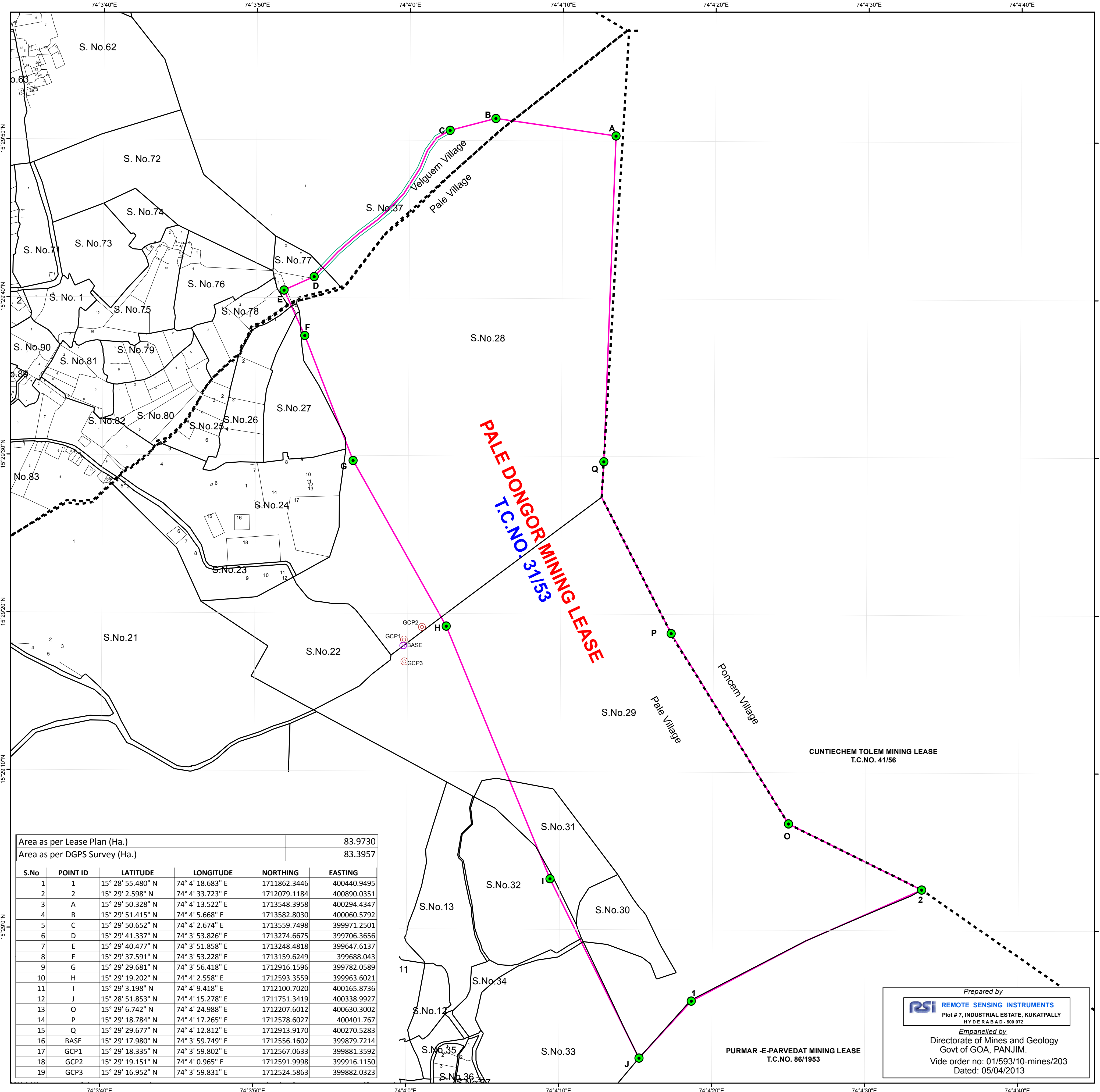
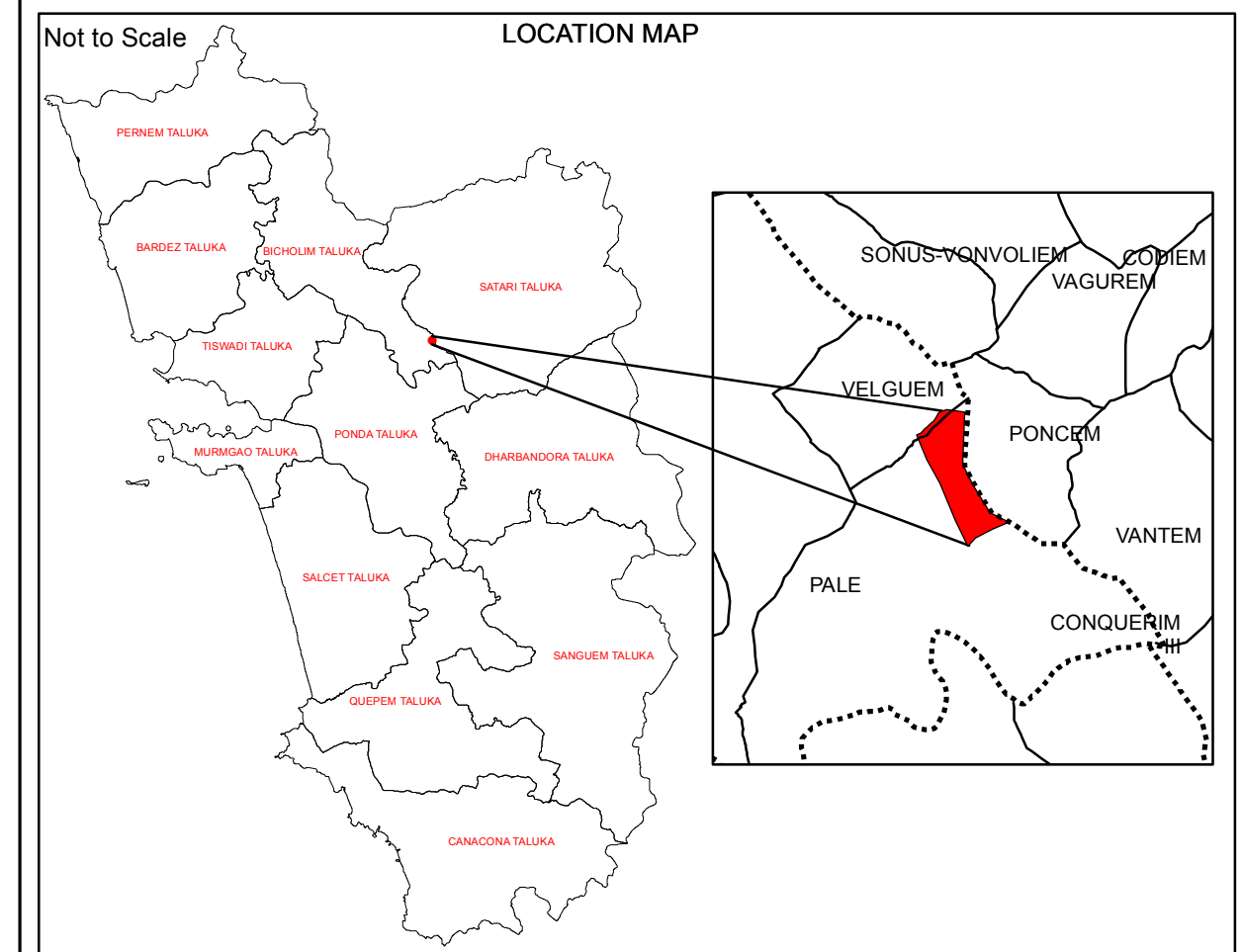


**Legend**

- 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



**PALE DONGOR MINING LEASE**  
**T.C.NO. 31/53**

Area as per Lease Plan (Ha.) 83.9730  
 Area as per DGPS Survey (Ha.) 83.3957

S.No	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
1	1	15° 28' 55.480" N	74° 4' 18.683" E	1711862.3446	400440.9495
2	2	15° 29' 2.598" N	74° 4' 33.723" E	1712079.1184	400890.0351
3	A	15° 29' 50.328" N	74° 4' 13.522" E	1713548.3958	400294.4347
4	B	15° 29' 51.415" N	74° 4' 5.668" E	1713582.8030	400060.5792
5	C	15° 29' 50.652" N	74° 4' 2.674" E	1713559.7498	399971.2501
6	D	15° 29' 41.337" N	74° 3' 53.826" E	1713274.6675	399706.3656
7	E	15° 29' 40.477" N	74° 3' 51.858" E	1713248.4818	399647.6137
8	F	15° 29' 37.591" N	74° 3' 53.228" E	1713159.6249	399688.043
9	G	15° 29' 29.681" N	74° 3' 56.418" E	1712916.1596	399782.0589
10	H	15° 29' 19.202" N	74° 4' 2.558" E	1712593.3559	399963.6021
11	I	15° 29' 3.198" N	74° 4' 9.418" E	1712100.7020	400165.8736
12	J	15° 28' 51.853" N	74° 4' 15.278" E	1711751.3419	400338.9927
13	O	15° 29' 6.742" N	74° 4' 24.988" E	1712207.6012	400630.3002
14	P	15° 29' 18.784" N	74° 4' 17.265" E	1712578.6027	400401.767
15	Q	15° 29' 29.677" N	74° 4' 12.812" E	1712913.9170	400270.5283
16	BASE	15° 29' 17.980" N	74° 3' 59.749" E	1712556.1602	399879.7214
17	GCP1	15° 29' 18.335" N	74° 3' 59.802" E	1712567.0633	399881.3592
18	GCP2	15° 29' 19.151" N	74° 4' 0.965" E	1712591.9998	399916.1150
19	GCP3	15° 29' 16.952" N	74° 3' 59.831" E	1712524.5863	399882.0323

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. 31 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.R.B.SINGH  
 (Mines Manager)

**Certificate by Accredited Agency**  
 This is to certify that the lease boundary pillars of T.C.No. 31 of 1953, shown by Mr.R.B.SINGH (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: 3rd & 4th Jun, 2013