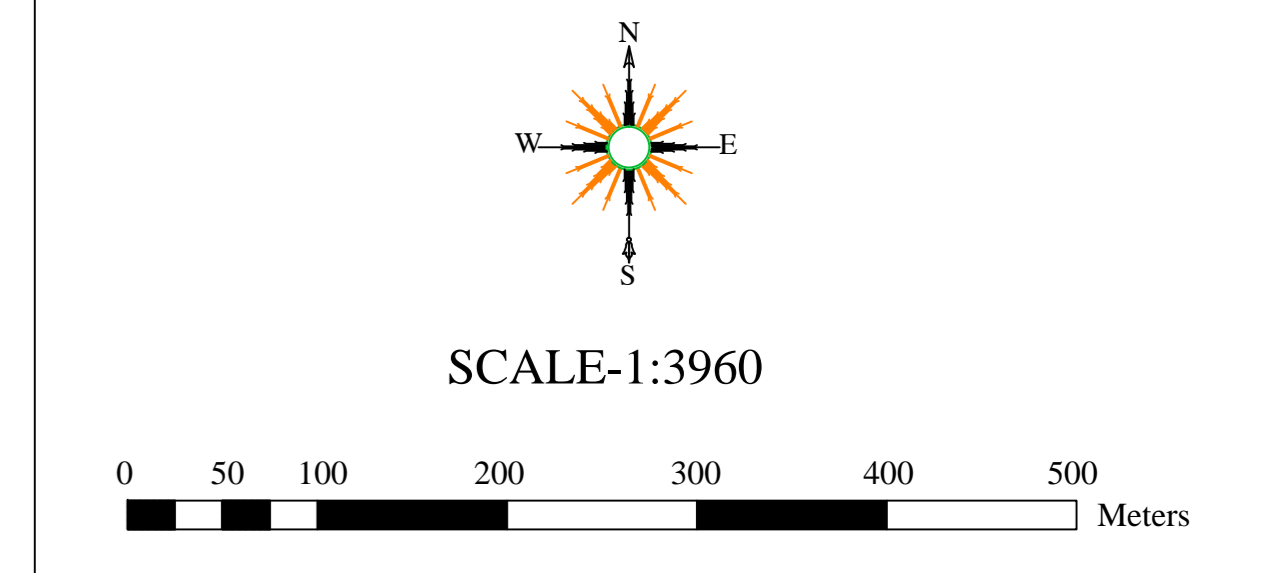
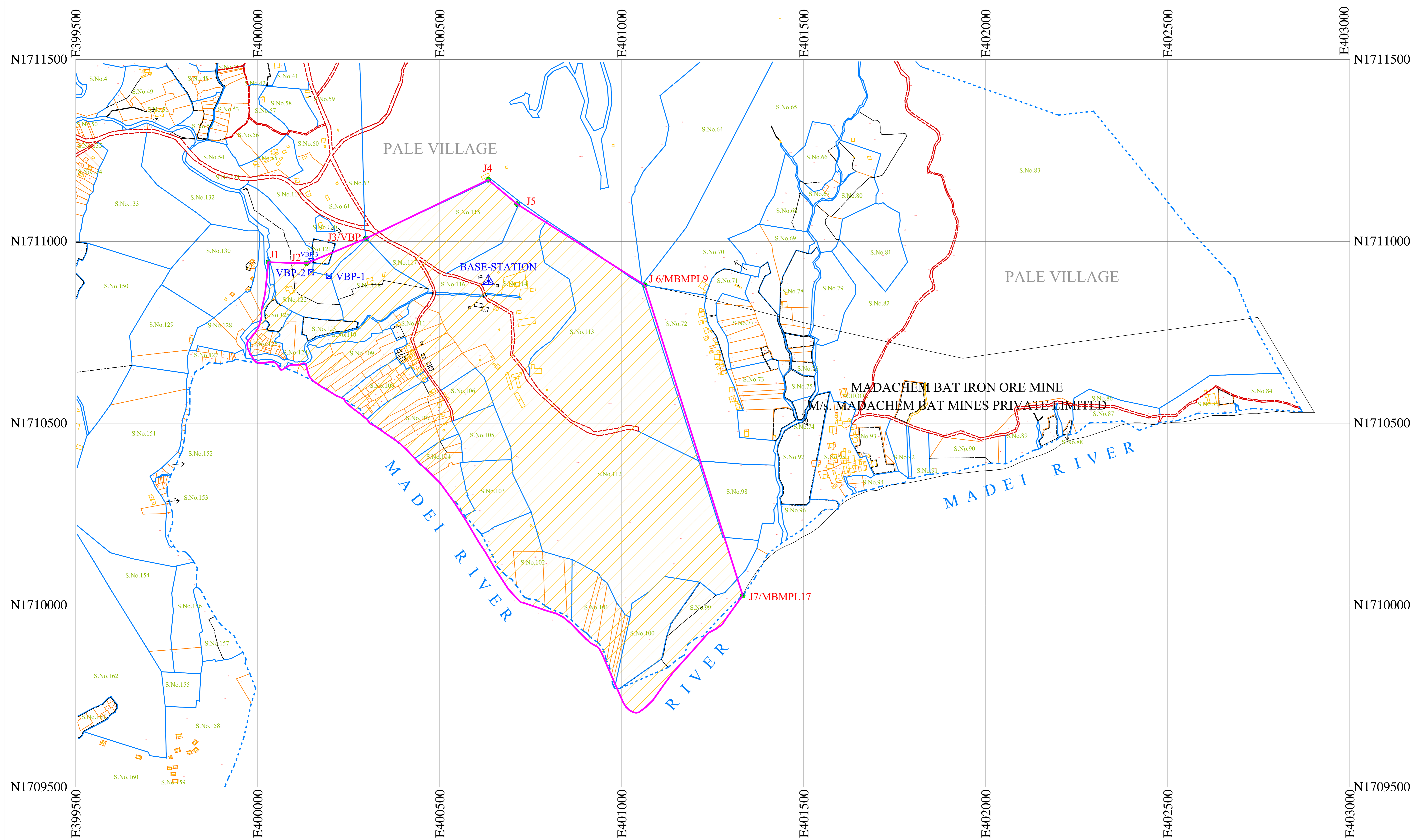
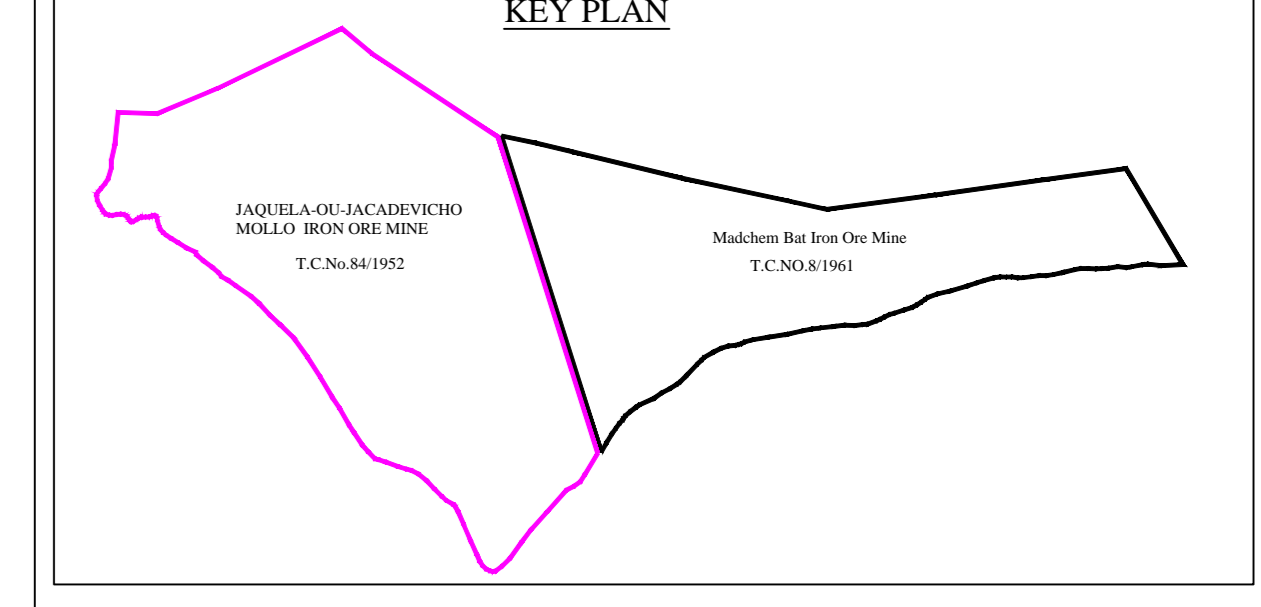


**GEO REFERENCED CADASTRAL MAP OF JAQUELA-OU-JACADEVICHU MOLLO IRON ORE MINE, MINING LEASE BEARING T.C.No.84/1952,SITUATED
IN PALE VILLAGE OF BICHOLIM TALUKA,NORTH GOA DISTRICT,GOA STATE.**

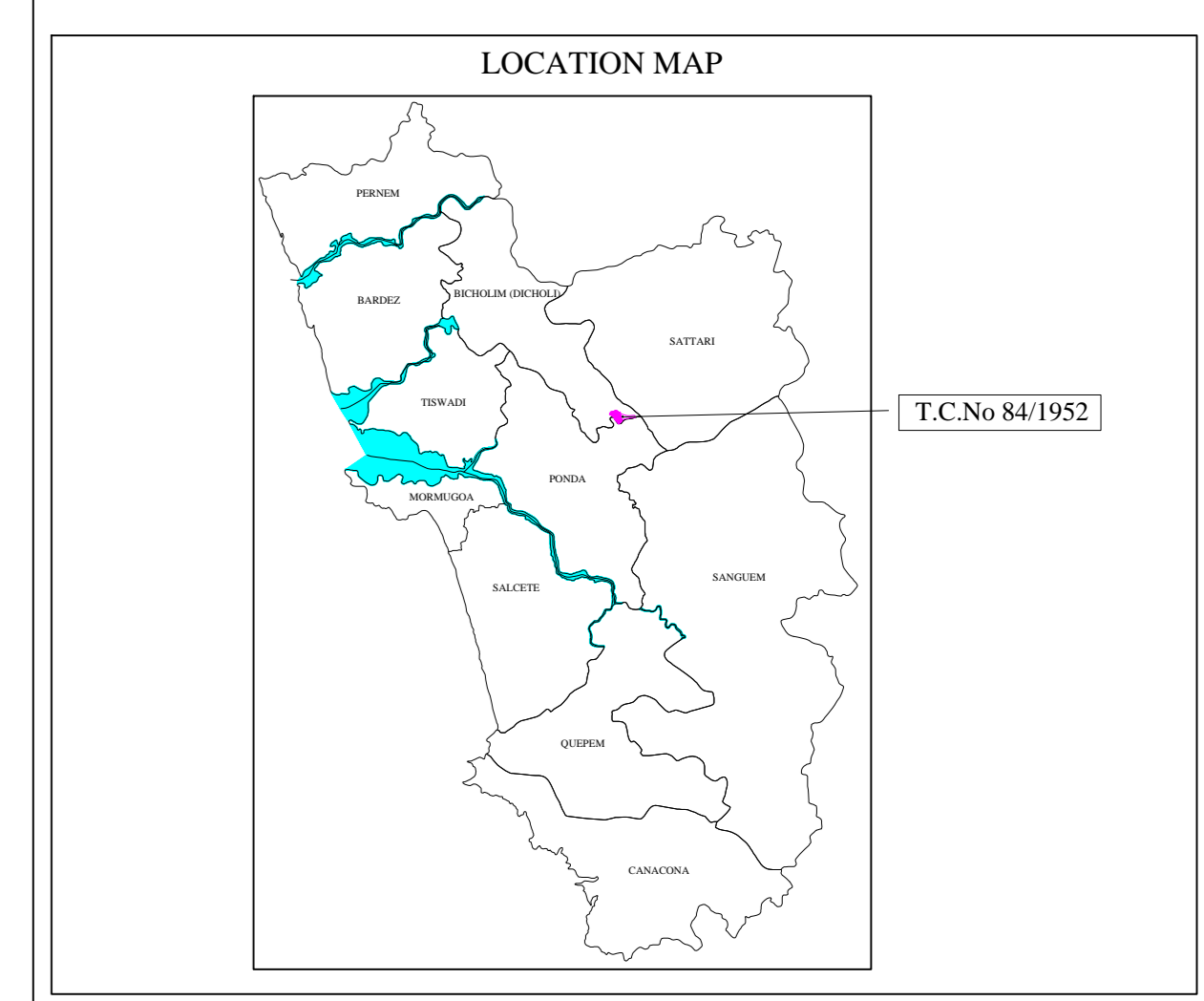


- INDEX**
- DGPS POINTS OF LEASE BOUNDARY
 - DGPS POINTS OF VILLAGE BOUNDARY PILLAR
 - MINE LEASE BOUNDARY AS PER DGPS SURVEY
 - ADJACENT MINE LEASE BOUNDARY
 - SURVEY No BOUNDARY
 - SUB DIVISION OF SURVEY No
 - TALUKA BOUNDARY
 - VILLAGE BOUNDARY
 - CART TRACK
 - ROAD
 - NALLAH/RIVER

T.C.No 84 of 1952 and T.C.No 8 of 1961 are working as amalgamated Mines vide letter no.SHQ/DIR-CMC/11/64/98/393 dated 18.10.2001



DATUM : WGS 84
PROJECTION: UTM_ZONE_43N



CERTIFICATE

This is to certify that the boundary pillars of which the DGPS survey readings are taken are the boundary pillars situated on ground for T.C.No.84/1952. The same are surveyed as required by the Indian Bureau of Mines vide their Circular No.2/2010 dated 6-4-2010

A.S.Deshpande
Senior Mines Manager

CERTIFICATE

This is to certify that the boundary pillars as shown by Shri A.S.Deshpande(Sr. Mines Manager) was surveyed by our team led by Shri Johanson CM (Asst manager) using DGPS (Differential Global Positioning System) instruments. The Lease map and pillar locations have been verified/survey conducted and plans prepared as required by the Indian Bureau of Mines vide their Circular No.2/2010 dated 6-4-2010

Kaliprasad S.B
Chaithanya Geo Lynx

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

AREA AS WRITTEN ON LEASE PLAN	99.45 Ha.
AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN	97.30 Ha.
ACTUAL AREA AFTER DGPS SURVEY	97.49 Ha.

Note : South & Southwest side boundary of Mining lease is Madei River.

S/No	POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING	DATE
1	Base Station	15°28'23.88726"	74°04'25.28451"	1710890.702	400633.462	29-5-2013
2	J-1	15°28'25.48978"	74°04'04.99892"	1710942.560	400029.168	30-5-2013
3	J-2	15°28'25.40631"	74°04'08.51436"	1710939.541	400133.916	30-5-2013
4	J-3/VBP	15°28'27.64251"	74°04'13.97848"	1711007.550	400297.043	30-5-2013
5	J-4	15°28'32.94652"	74°04'25.23477"	1711169.083	400633.181	30-5-2013
6	J-5	15°28'30.78488"	74°04'27.91155"	1711102.315	400712.661	30-5-2013
7	J-6/MBMPL9	15°28'23.58251"	74°04'39.71601"	1710879.486	401063.478	31-5-2013
8	J-7/MBMPL17	15°27'55.85517"	74°04'48.86101"	1710026.307	401332.349	30-5-2013
9	VBP-1	15°28'24.30609"	74°04'10.60272"	1710905.463	400196.002	30-5-2013
10	VBP-2	15°28'24.60211"	74°04'08.92514"	1710914.776	400146.050	30-5-2013
11	VBP-3	15°28'25.60791"	74°04'08.95678"	1710945.678	400147.127	30-5-2013

Survey No Areas in mine area				Survey No Areas in mine area			
S/No	Village Name	Survey No	Area In Ha.	S/No	Village Name	Survey No	Area In Ha.
1	PALE	72	00.27	18	PALE	114	06.43
2	PALE	98	00.09	19	PALE	115	05.06
3	PALE	99	02.33	20	PALE	116	00.60
4	PALE	100	03.14	21	PALE	117	00.87
5	PALE	101	02.75	22	PALE	118	03.42
6	PALE	102	03.74	23	PALE	119	00.41
7	PALE	103	02.61	24	PALE	121	00.09
8	PALE	104	01.55	25	PALE	122	02.27
9	PALE	105	01.73	26	PALE	123	00.60
10	PALE	106	01.19	27	PALE	124	00.77
11	PALE	107	02.92	28	PALE	125	00.50
12	PALE	108	01.68	29	PALE	126	00.62
13	PALE	109	02.85	30	PALE	127	00.06
14	PALE	110	00.84	31	PALE	128	00.05
15	PALE	111	01.00	32	MADEI RIVER	02.07	
16	PALE	112	28.35	33	NALLAH	00.65	
17	PALE	113	14.83	34	ROADS	01.11	
Total							97.49 Ha.

Prepared By
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SURVEY GEOLOGY, MINING & ENVIRONMENTAL
CONSULTANTS/PROJECT MANAGERS/STATE
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Empanelled by
Directorate of Mines and Geology
Govt of GOA, PANJIM
Vide order no 01/593/10-mines/203
Dated:05/04/2013