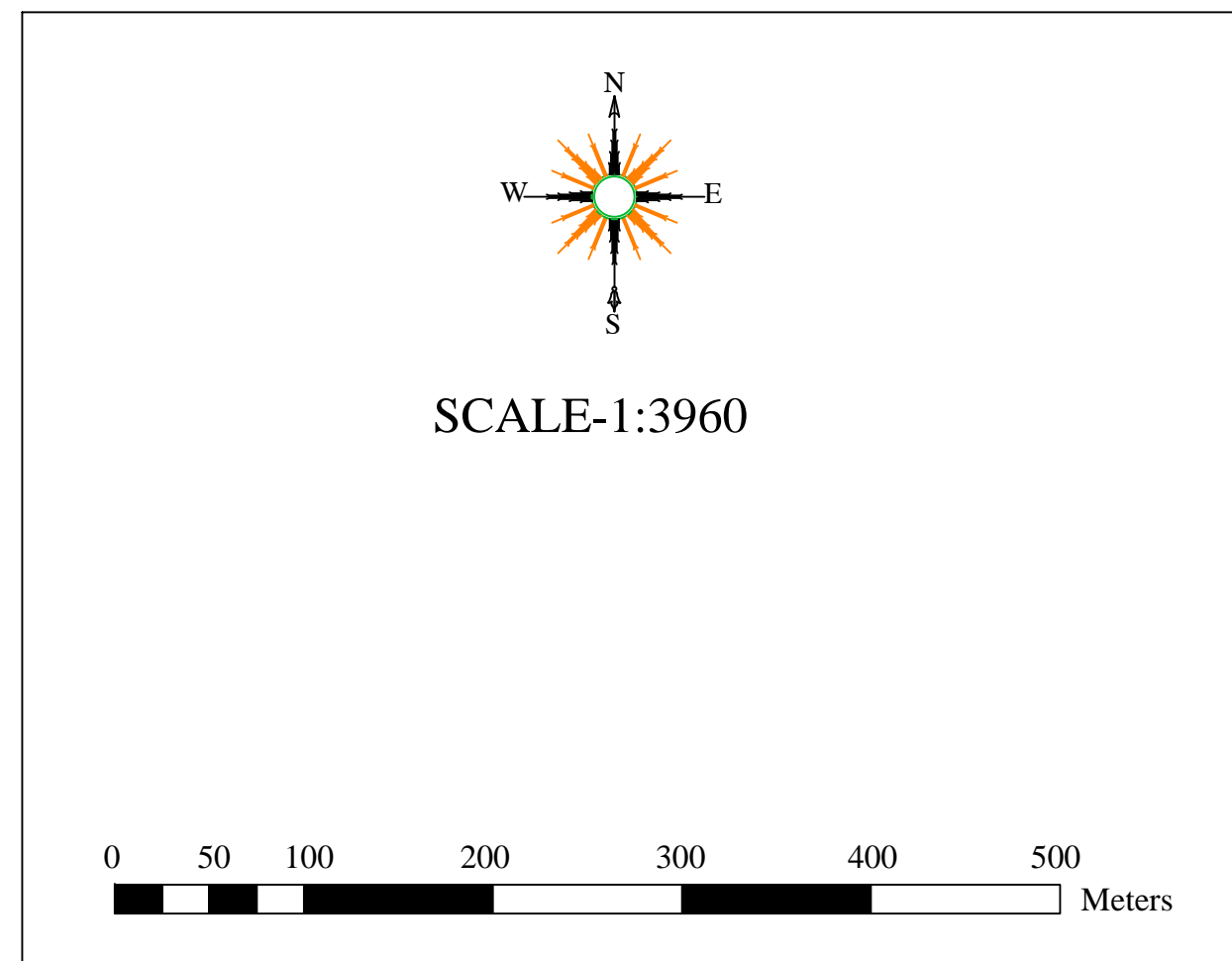
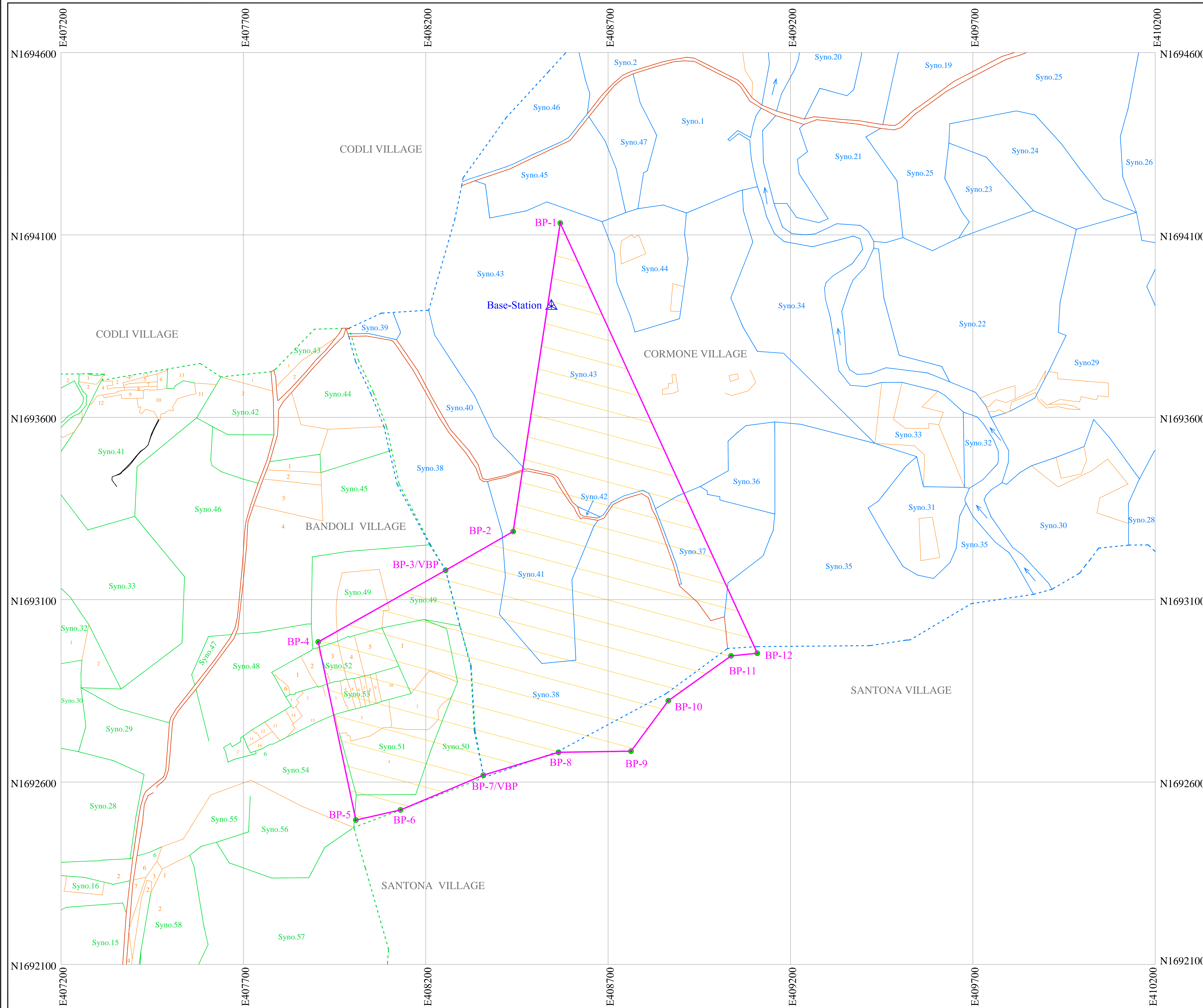
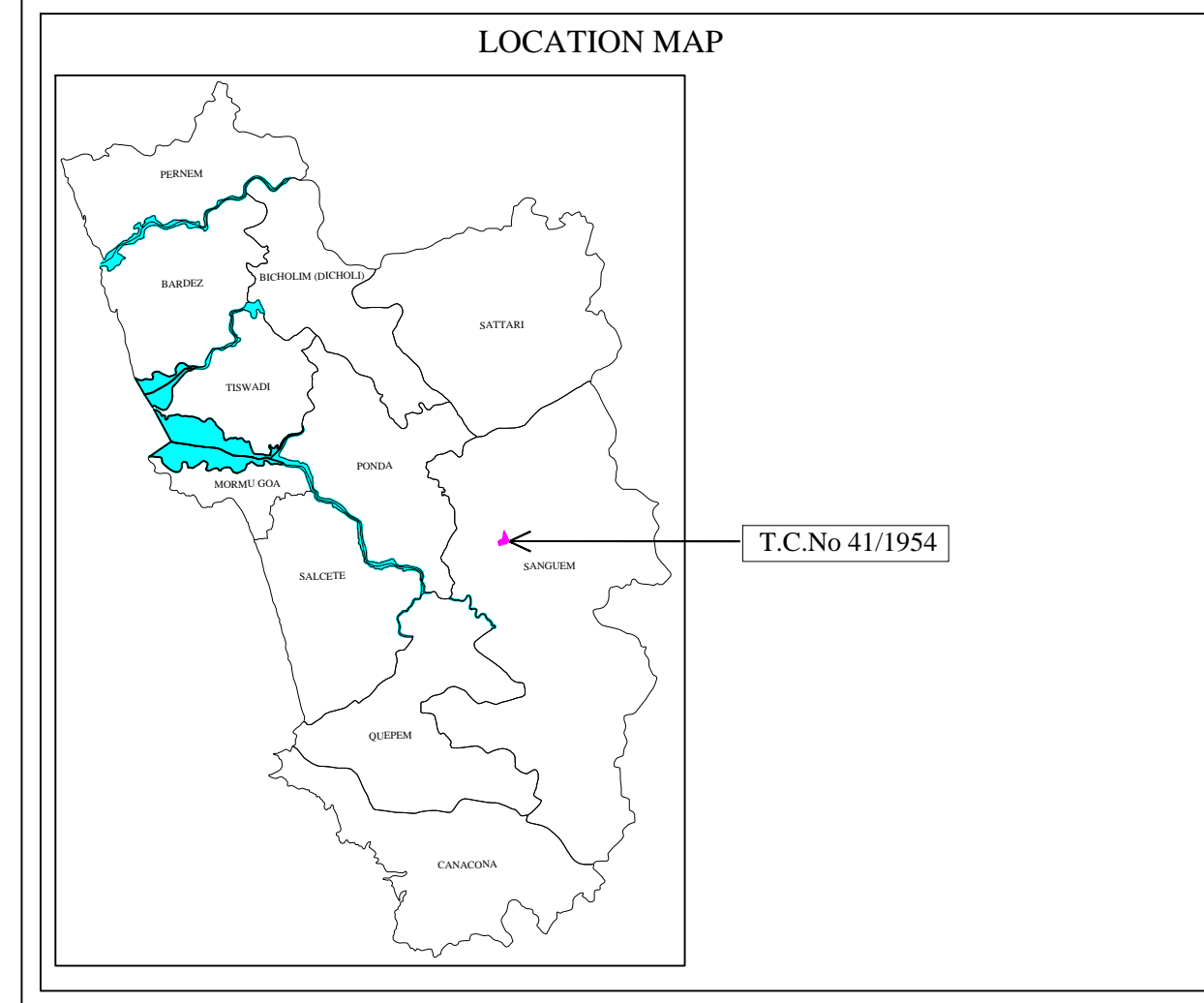


GEO REFERENCED CADASTRAL MAP OF KIRLAPELE IRON ORE MINE (LEASE:CULNA SODDO), MINING LEASE BEARING T.C.No-41/1954, SITUATED IN CORMONE & BANDOLI VILLAGES OF DHARBANDORA (ERSTWHILE SANGUEM) TALUKA, SOUTH GOA DISTRICT, GOA STATE.



- 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

DATUM : WGS 84
PROJECTION: UTM_ZONE_43N



CERTIFICATE

This is to certify that the boundary pillars as shown by the DGPS survey readings are taken are the boundary pillars situated on ground for T.C.No.41/1954. The same are surveyed as required by the Indian Bureau of Mines vide their Circular No.2/2010 dated 6-4-2010

Ghanshyam Sardesai
Owner

CERTIFICATE

This is to certify that the boundary pillars as shown by Shri Thirumala Rao (Asst Manager) was surveyed by our team led by Johnson C.M (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 |

NOTE :- BP 2 Readings are AutoCAD generated owing to inaccessibility

| Sno | POINT ID | LATITUDE | LONGITUDE | NORTHING | EASTING | DATE |
|-----|--------------|-----------------|-----------------|-------------|------------|-----------|
| 1 | Base-Station | 15°19'12.16499" | 74°08'53.00375" | 1693904.638 | 408544.452 | 21-5-2013 |
| 2 | BP-1 | 15°19'19.58425" | 74°08'53.78926" | 1694132.519 | 408568.773 | 21-5-2013 |
| 3 | BP-2 | 15°18'52.05238" | 74°08'49.57428" | 1693287.035 | 408439.751 | --- |
| 4 | BP-3/VBP | 15°18'48.56575" | 74°08'43.37617" | 1693180.627 | 408254.489 | 21-5-2013 |
| 5 | BP-4 | 15°18'42.12836" | 74°08'31.69414" | 1692984.199 | 407905.324 | 21-5-2013 |
| 6 | BP-5 | 15°18'26.24753" | 74°08'35.21542" | 1692495.809 | 408008.410 | 21-5-2013 |
| 7 | BP-6 | 15°18'27.16749" | 74°08'39.31622" | 1692523.595 | 408130.820 | 21-5-2013 |
| 8 | BP-7/VBP | 15°18'30.29657" | 74°08'46.91854" | 1692618.850 | 408357.922 | 21-5-2013 |
| 9 | BP-8 | 15°18'32.26317" | 74°08'53.82189" | 1692681.542 | 408564.048 | 21-5-2013 |
| 10 | BP-9 | 15°18'32.49034" | 74°09'00.48297" | 1692684.670 | 408762.715 | 21-5-2013 |
| 11 | BP-10 | 15°18'37.00407" | 74°09'03.89865" | 1692822.966 | 408865.122 | 21-5-2013 |
| 12 | BP-11 | 15°18'41.02847" | 74°09'09.64993" | 1692945.954 | 409037.123 | 21-5-2013 |
| 13 | BP-12 | 15°18'41.27180" | 74°09'12.05915" | 1692953.150 | 409109.001 | 21-5-2013 |

| Sno | Village Name | Survey No | Area In Ha |
|-----|--------------|-----------|------------|
| 1 | BANDOLI | 49 | 02.58 |
| 2 | BANDOLI | 50 | 04.79 |
| 3 | BANDOLI | 51 | 09.25 |
| 4 | BANDOLI | 52 | 02.11 |
| 5 | BANDOLI | 53 | 01.74 |
| 6 | BANDOLI | 54 | 00.24 |
| 7 | CORMONE | 35 | 00.67 |
| 8 | CORMONE | 37 | 03.23 |
| 9 | CORMONE | 38 | 29.14 |
| 10 | CORMONE | 40 | 00.002 |
| 10 | CORMONE | 41 | 08.99 |
| 11 | CORMONE | 42 | 00.07 |
| 12 | CORMONE | 43 | 16.86 |

| AREA AS WRITTEN ON LEASE PLAN | 82.50 Ha. |
|--|-----------|
| AREA DETERMINED AFTER DIGITISATION OF LEASE PLAN | 86.27 Ha. |
| ACTUAL AREA AFTER DGPS SURVEY | 82.48 Ha. |

Prepared By
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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