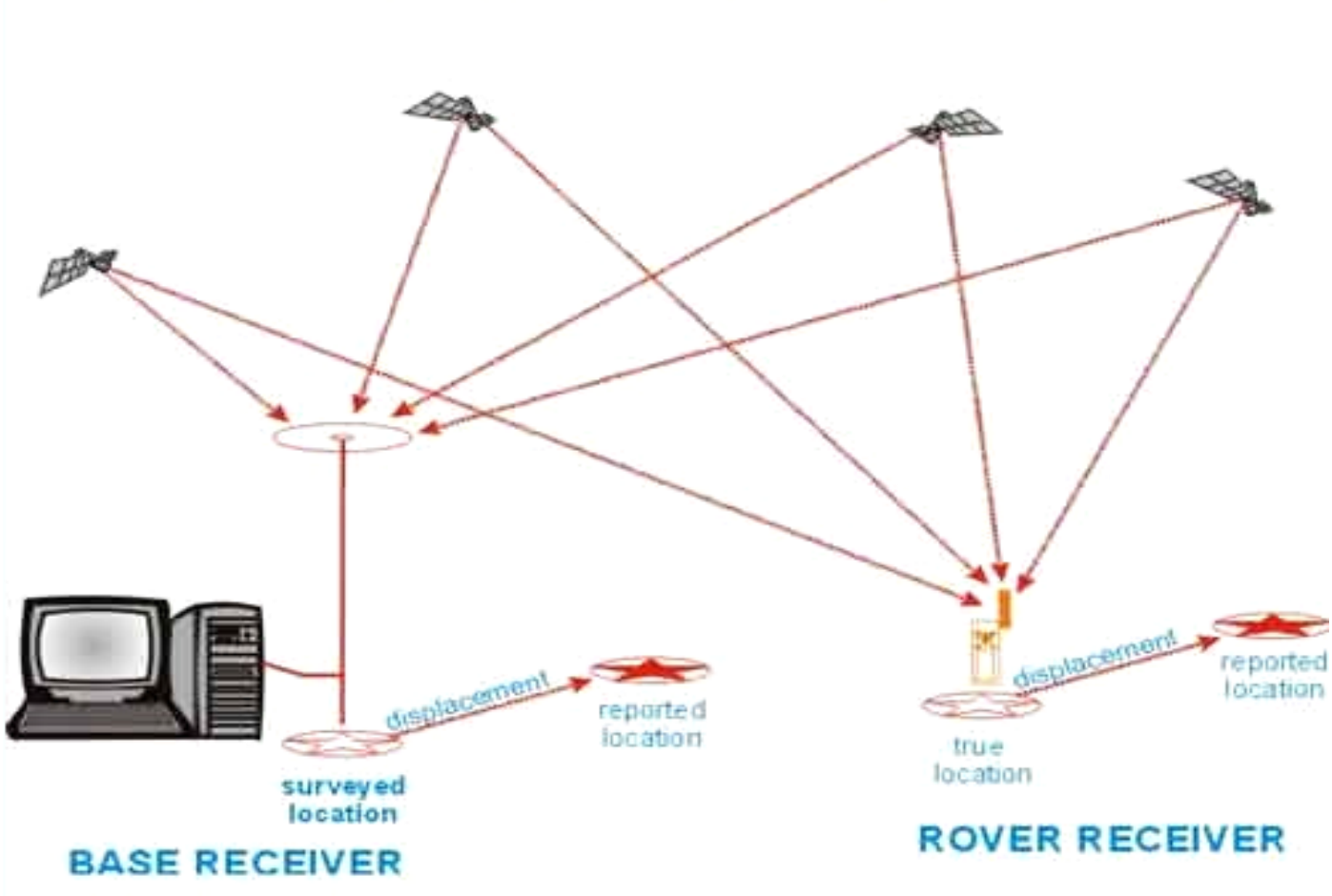
D.G.P.S SURVEY REPORT FOR

FOREST LAND OF BASTAR DIVISION FROM BAGMUNDI TO NAGARNAR ALONG THE ROU/ROW OF NMDC LIMITED SLURRY PIPE LINE PROJECT

TEHSIL JAGDALPUR, DISTRICT BASTAR,

FOREST DIVISION BASTAR,

CHHATTISGARH.



Name of the Applicant:

Executive Director (Project NMDC Limited Hyderabad)

Tehsil- Jagdalpur, District: Bastar,

Bastar Division, Chhattisgarh.

Computer Plus Raipur (C.G.)

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MAPS ON A3 SIZE PRINTOUT

DATA ENCLOSED IN SOFT COPY

1. ABOUT US

Computer Plus an ISO 9001:2008 certified organization working in the field of I.T. Consulting & Software Services. We are serving since 1998 & head office in Raipur, (C.G.), with core competence in the areas of Integrated Business Solutions with Implementation and Support.

Our Team:

We're justifiably proud of the team we've assembled. Initially numbering just two programmers, **Computer Plus** has grown steadily and now has over 250 staff members. The **Computer Plus** team is made up of highly-qualified, talented and innovative IT and GIS professionals each with their own area of expertise. Their experience spans the full range of custom software development, from small entrepreneurial projects to complex systems for major corporations.

Our Mission:

Computer Plus's mission is to solve challenging technical problems in partnership with our clients.
How we achieve it:

- We understand the business needs of our clients, and how technology can be a tool to make modern businesses more profitable for both private and government sector.
- **Computer Plus** combines technical excellence with great customer service and value for money.
- We value creativity and collaboration; ideas are shared and everybody contributes on an individual basis toward the common goal.

  We create new teams for each project, ensuring the best possible combination of skills and experience to meet the client's needs and deliver high quality solutions.

2. INTRODUCTION TO DGPS

WHAT IS DGPS AND WHY USE IT?

• **Differential Global Positioning System** (**DGPS**) is an enhancement to Global Positioning System that provides improved location accuracy, from the 15-meter nominal GPS accuracy to about 10 cm in case of the best implementations.

• DGPS refers to using a combination of receivers and satellites to reduce/eliminate common receiver based and satellite based errors reduce orbit errors reduce ionospheric and tropospheric errors reduce effects of SA eliminate satellite and receiver clock errors

• improve accuracy significantly 100's of meters to meters to centimeters to millimeters

1. DGPS uses one or several (network) fixed ground based reference stations (in known locations).

2. The base station compares its own known location, to that computed from a GPS receiver.

3. Any difference is then broadcast as a correction to the user.

Correction signals can be broadcast either from ground stations, or via additional satellites. These services are privately owned and usually require a user subscription.

Examples:

- Satellite Based Augmentation System (SBAS),
- Wide Area Augmentation System (WAAS),
- Local Area Augmentation System (LAAS),
- European Geostationary Navigation Overlay Service (EGNOS),
- Omni STAR
- Coast guard beacon service.

Why do we Need Differential GPS?

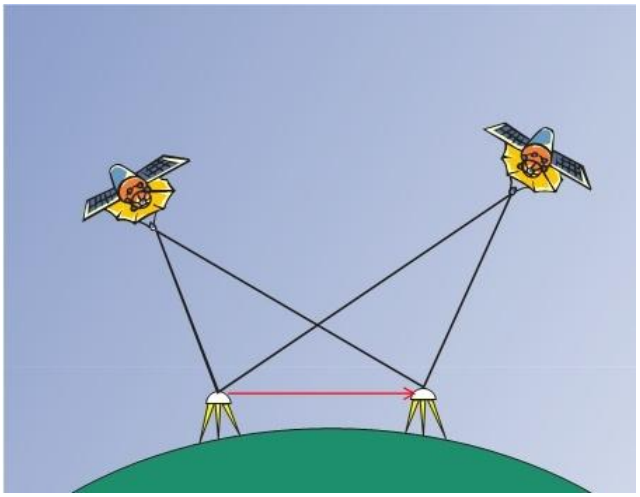
By using DGPS we can improve our positional accuracy from around 1.5m with standard GPS to around 40cm with DGPS, without the need for post processing.

In the case of the road survey van (top right), users can measure the amount of road wear and judge whether the road should be resurfaced just by driving over it. Just one day's driving can replace a month's manual work using traditional methods.

There are many other applications like this. The labor saving is immense but at the same time, previously impossible tasks are made possible such as the prediction of earthquakes before they occur.

DGPS Summary

- Term refers to simple C/A code differential
- Available on GPS receivers from low cost to high cost
- Produces accuracies from sub-meter to meters
- Many real-time DGPS correction providers - Coast guard, EGNOS, Omni STAR
- Used for many different applications including marine navigation, precision farming and vehicle testing applications.



What is RTK?

Real Time Kinematic is an advanced form of DGPS which uses the satellites carrier wave to compare 2 observations from different receivers within the system, to fine tune the satellite and receiver clock errors, thus improving positional accuracy.

Real Time Kinematic (RTK)

The GPS signal is made up of 3 distinct components:

- Carrier wave
- GPS Code
- Navigation message

Typical GPS receivers will use the GPS navigation message to calculate its position.
RTK uses the carrier wave of the GPS signal, which is 19.02cm long. By counting the number of cycles (and phase of the carrier), the travel time and distance can be measured more accurately.

RTK Summary

- Similar technique as DGPS that uses the carrier phase to provide more accurate positioning

- Cost is higher compared to DGPS receivers

- Produces accuracies from 20 cm to sub-centimeters

- RTK corrections provided via a local base station or by a private correction provider - Omni STAR, Leica, Trimble

- Used for many different applications including machine control (construction, container ports, farming), vehicle testing applications, surveying (land, marine, hydrographic, aerial)

RINEX FILE

The first proposal for the ***Receiver Independent Exchange Format RINEX*** was developed by the Astronomical Institute of the University of Berne for the easy exchange of the Global.

Positioning System (GPS) data to be collected during the first large European GPS campaign

EUREF 89, which involved more than 60 GPS receivers of 4 different manufacturers. The governing aspect during the development was the following fact:

Most geodetic processing software for GPS data use a well-defined set of observables:

- The carrier-phase measurement at one or both carriers (actually being a measurement on the beat frequency between the received carrier of the satellite signal and a receiver generated reference frequency).

- The pseudo range (code) measurement, equivalent to the difference of the time of reception (expressed in the time frame of the receiver) and the time of transmission (expressed in the time frame of the satellite) of a distinct satellite signal.

• The observation time being the reading of the receiver clock at the instant of validity of the carrier-phase and/or the code measurements.

Usually the software assumes that the observation time is valid for both the phase **and** the code measurements, **and** for all satellites observed. Consequently all these programs do not need most of the information that is usually stored by the receivers: They need phase, code, and time in the above mentioned definitions, and some station related information like station name, antenna height, etc. Up till now two major format versions have been developed and published:

• The original RINEX Version 1 presented at and accepted by the 5th International Geodetic Symposium on Satellite Positioning in Las Cruces, 1989. [Gurtner et al. 1989],[Evans 1989]

• RINEX Version 2 presented at and accepted by the Second International Symposium of Precise Positioning with the Global Positioning system in Ottawa, 1990, mainly adding the possibility to include tracking data from different satellite systems (GLONASS, SBAS). [Gurtner and Mader 1990a, 1990b], [Gurtner 1994]. Several subversions of RINEX Version 2 have been defined:

• Version 2.10: Among other minor changes allowing for sampling rates other than integer seconds and including raw signal strengths as new observables. [Gurtner 2002]

• Version 2.11: Includes the definition of a two-character observation code for L2C pseudoranges and some modifications in the GEO NAV MESS files [Gurtner and Estey 2005]

• Version 2.20: Unofficial version used for the exchange of tracking data from spaceborne receivers within the IGS LEO pilot project [Gurtner and Estey 2002]. As spin-offs of this idea of a receiver-independent GPS exchange format other RINEX-like exchange file formats have been defined, mainly used by the International GNSS Service IGS:

• Exchange format for **satellite and receiver clock offsets** determined by processing data of a GNSS tracking network [Ray and Gurtner 1999]

• Exchange format for the complete **broadcast data of spacebased augmentation systems** SBAS. [Suard et al. 2004]

• IONEX: Exchange format for **ionosphere models** determined by processing data of a GNSS tracking network [Schaer et al. 1998]

• ANTEX: Exchange format for **phase center variations** of geodetic GNSS antennae [Rothacher and Schmid 2005].

The upcoming European Navigation Satellite System Galileo and the enhanced GPS with new frequencies and observation types, especially the possibility to track frequencies on different channels, ask for a more flexible and more detailed definition of the observation codes. To improve the handling of the data files in case of "mixed" files, i.e. files containing tracking data of more than one satellite system, each one with different observation types, the record structure of the data record has been modified significantly and, following several requests, the limitation to 80 characters length has been removed. As the changes are quite significant, they lead to a new RINEX Version 3. The new version also includes the unofficial Version 2.20 definitions for space-borne receivers. The major change asking for a version 3.01 was the requirement to generate consistent phase observations across different tracking modes or channels, i.e. to apply ¼-cycle shifts prior to RINEX file generation, if necessary, to facilitate the processing of such data.

The RINEX version 3.00 format consists of three ASCII file types:

1. Observation data File
2. Navigation message File
3. Meteorological data File

Each file type consists of a header section and a data section. The header section contains global information for the entire file and is placed at the beginning of the file. The header section contains **header labels in columns 61-80** for each line contained in the header section. These labels are mandatory and must appear exactly as given in these descriptions and examples. The format has been optimized for minimum space requirements independent from the number of different observation

types of a specific receiver or satellite system by indicating in the header the types of observations to be stored for this receiver and the satellite systems having been observed. In computer systems allowing variable record lengths the observation records may be kept as short as possible. Trailing blanks can be removed from the records. There is no maximum record length limitation for the observation records.

Each Observation file and each Meteorological Data file basically contain the data from one site and one session. Starting with Version 2 RINEX also allows including observation data from more than one site subsequently occupied by a roving receiver in rapid static or kinematic applications. Although Version 2 and higher allow to insert header records into the data section it is not recommended to concatenate data of more than one receiver (or antenna) into the same file, even if the data do not overlap in time. If data from more than one receiver have to be exchanged, it would not be economical to include the identical satellite navigation messages collected by the different receivers several times.
Therefore the navigation message file from one receiver may be exchanged or a composite navigation message file created containing non-redundant information from several receivers in order to make the most complete file. The format of the data records of the RINEX Version 1 navigation message file was identical to the former NGS exchange format. RINEX version 3 navigation message files may contain navigation messages of more than one satellite system (GPS, GLONASS, Galileo, Quasi Zenith Satellite System (QZSS), BeiDou System (BDS) and SBAS). The actual format descriptions as well as examples are given in the Appendix Tables at the end of the document.

Time:

The time of the measurement is the receiver time of the received signals. It is identical for the phase and range measurements and is identical for all satellites observed at that epoch. For single-system data files it is by default expressed in the time system of the respective satellite system. Otherwise the actual time can (for mixed files must) be indicated in the Start Time header record.

Pseudo-Range:

The pseudo-range (PR) is the distance from the receiver antenna to the satellite antenna including receiver and satellite clock offsets (and other biases, such as atmospheric delays): PR = distance + c * (receiver clock offset –satellite clock offset + other biases)
so that the pseudo-range reflects the actual behaviour of the receiver and satellite clocks. The pseudo-range is stored in units of meters.

Phase:

The phase is the carrier-phase measured in whole cycles. The half-cycles measured by squaring type receivers must be converted to whole cycles and flagged by the respective observation code.

The phase changes in the same sense as the range (negative doppler). The phase observations between epochs must be connected by including the integer number of cycles. The observables are not corrected for external effects like atmospheric refraction, satellite clock offsets, etc. If necessary phase observations are corrected for phase shifts needed to guarantee consistency between phases of the same frequency and satellite system based on different signal channels.

If the receiver or the converter software adjusts the measurements using the real-time-derived receiver clock offsets dT(r), the consistency of the 3

quantities phase / pseudo-range / epoch must be maintained, i.e. the receiver clock correction should be applied to all 3 observables:

1 Time (corr) = Time(r) - dT(r)

2 PR (corr) = PR (r) - dT(r)*c

3 phase (corr) = phase (r) - dT(r)*freq

Doppler:

The sign of the doppler shift as additional observable is defined as usual: Positive for approaching satellites.

Satellite numbers:

Starting with RINEX Version 2 the former two-digit satellite numbers **nn** are preceded by a one-character system identifier **s**. The same satellite system identifiers are also used in all header records when appropriate.

THE EXCHANGE OF RINEX FILES:

The original RINEX file naming convention was implemented in the MS-DOS era when file names were restricted to 8.3 characters. Modern operating systems typically support 255 character file names. The goal of the new file naming convention is to be more: descriptive, flexible and extensible than the RINEX 2.11 file naming convention. All elements are fixed length and are separated by an underscore "_" except for the: file type and compression fields that uses a period "." separator. Fields must be padded with zeros to fill the field width. The file compression field is optional. In order to further reduce the size of observation files Yuki Hatanaka developed a compression scheme that takes advantage of the structure of the RINEX observation data by forming higher order differences in time between observations of the same type and satellite. This compressed file is also an ASCII file that is subsequently compressed again using the above mentioned standard compression programs.

3. INTRODUCTION TO SURVEY SITE

The surveyed area is located on **Village Bagmundi to Madpal,** which comes under **Block Bastanar, Tokapal & Jagdalpur, District Bastar, Chhattisgarh**. Jagdalpur longitude lattitude is **82° 0'29.48"E 19° 4'19.30"N**. Survey site is located 60 Km from **Jagdalpur**. Survey site is located Chitrakote & Jagdalpur Range, Bastar Division, and Jagdalpur circle.

AREA DEATAILS

S.No.	DISTRICT	VILLAGE NAME	KHASRA No.	AREA(in Hect)	LENGTH(In Meters)
1	Bastar	BAGMUNDI	15	0.141	141.277
2			25	0.584	202.39
3			31	0.214	81.89
4			42	0.061	89.197
5			328	0.783	276.591
6			331	0.344	117.005
7			359	0.030	45.708
8			359	0.079	65.872
9		BASTANAR	1080	0.747	260.125
10			1079	0.014	29.033
11			1076	0.256	89.263
12			1074	0.452	156.346
13			1035	0.156	53.554
14			1032	0.401	133.003
15			1676P	4.212	1403.905
16			824	0.332	121.833
17			867	0.007	15.962
18			773	0.014	27.138
19			1672P	5.516	1838.77
20			526	0.511	303.439
21			527	0.107	197.274
22		IRPA	5	0.076	27.191
23			16	0.377	121.315
24		JAMGAON	262	0.090	58.359
25		KILEPAL	535/1	1.320	460.067
26			535/1	0.571	227.214
27			315	0.044	35.251
28			315	0.0003	4.846
29			315	0.712	260.084
30			429	0.109	72.677
31			1086/2	0.225	124.496
32		KODENAR	1060	0.003	12.401
33			1059	0.158	109.438
34			954	0.178	63.256

S.No.	DISTRICT	VILLAGE NAME	KHASRA No.	AREA(in Hect)	LENGTH(In Meters)
35	Bastar	KODENAR	945	0.094	66.582
36		TIRTHUM	143	0.251	123.567
37			142	0.242	82.974
38			132	0.094	99.231
39			130	0.161	56.394
40			274	0.004	16.17
41			292	0.159	53.304
42		GURRAM	46	2.464	827.107
43			225	0.045	100.105
44			225	0.009	44.002
45			58	0.669	228.151
46			224	0.649	211.878
47		DILMILLI	313	0.672	243.343
48			440	0.045	50.97
49			340	0.007	15.53
50		MAVLIBHATTA	95/875	0.217	72.023
51			52	0.184	91.077
52			609	0.001	8.983
53			721	0.031	35.098
54			719	0.038	14.164
55			742	0.183	73.628
56			784	0.506	281.051
57			785	0.004	21.78
58			787	0.044	41.43
59			822	0.025	25.676
60			818	0.475	163.026
61			817	0.261	106.934
62			817	0.003	12.741
63			816	0.120	44.516
64			815	0.261	97.233
65		MANDWA	1	0.180	79.697
66			3	0.011	9.64
67		RAIKOT	900	0.407	152.711
68			901	0.403	131.168
69			1637P	2.819	939.653
70			383	0.077	44.266
71			747	0.006	17.136
72			745	0.249	129.786
73			749	0.398	167.227
74			752	0.748	249.668
75		ERANDWAL	5	0.578	218.789
76		BADEARAPUR	238	0.035	15.33
77			226	0.208	94.068
78			221	0.023	8.535
79			218	0.058	15.885
80			203	0.050	17.925

S.No.	DISTRICT	VILLAGE NAME	KHASRA No.	AREA(in Hect)	LENGTH(In Meters)
81	Bastar	BADEARAPUR	201	0.004	12.117
82			195	0.081	50.183
83			273	0.048	24.734
84		PARPA	91	0.021	14.502
85			95	0.066	26.101
86			104	0.115	40.784
87			118	0.056	28.931
88		TELEMARENGA	151	0.102	104.209
89			147	0.170	169.78
90		DONGRIGURA	256	0.095	99.661
91			312	0.041	44.122
92			415	0.645	641.583
93			288	0.057	56.553
94		BRUNGANPAL	9	0.122	120.111
95			13	0.119	117.281
96			18	0.123	120.392
97			149	0.123	121.389
98		PANDRIPANI	1320	0.076	76.799
99			1320	0.217	220.32
100			1343	0.041	40.848
101			1360	0.081	79.097
102			1337	0.056	56.536
103		NIYANAR	636	0.040	40.072
104			740	0.041	41.778
105			744	0.037	36.453
106			415	0.090	96.468
107			416	0.027	29.464
108			424	0.083	83.235
109			437	0.065	65.015
110			231	0.076	80.194
111			221	0.036	37.956
112			228	0.065	64.156
113		BILORI	PF 1813	4.499	1496.823
114		MADPAL	1082	0.156	81.503
115			1085	0.376	127.261
TOTAL				**41.043**	**17372.73**

BASE STATION POINTS

S.No.	Pillar ID	LONGITUDE	LATTITUDE
1	Base Point	81° 41' 29.606" E	19° 0' 0.443" N
2	Base Point	81° 39' 5.063" E	18° 59' 20.705" N
3	Base Point	81° 38' 17.219" E	18° 59' 17.518" N
4	Base Point	81° 35' 0.815" E	18° 58' 28.577" N
5	Base Point	81° 33' 59.361" E	18° 58' 28.555" N
6	Base Point	81° 31' 27.261" E	18° 58' 18.779" N
7	Base Point	81° 29' 37.505" E	18° 57' 57.344" N
8	Base Point	81° 42' 20.087" E	18° 59' 53.173" N
9	Base Point	81° 45' 3.078" E	18° 59' 50.977" N
10	Base Point	81° 48' 7.698" E	19° 0' 32.873" N
11	Base Point	81° 48' 39.834" E	19° 0' 40.621" N
12	Base Point	81° 50' 39.007" E	19° 0' 36.298" N
13	Base Point	82° 4' 13.996" E	19° 3' 8.261" N
14	Base Point	82° 4' 14.506" E	19° 3' 8.339" N
15	Base Point	81° 59' 10.322" E	19° 1' 30.081" N
16	Base Point	81° 57' 51.205" E	19° 1' 53.015" N

SURVEY POINTS

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
1	CA15(1)	81° 27' 51.096" E	18° 58' 8.048" N	BAGMUNDI
2	CA15(2)	81° 27' 55.742" E	18° 58' 6.787" N	
3	CA15(3)	81° 27' 56.050" E	18° 58' 7.717" N	
4	CA15(4)	81° 27' 55.932" E	18° 58' 7.752" N	
5	CA15(5)	81° 27' 55.620" E	18° 58' 7.457" N	
6	CA25(1)	81° 28' 5.466" E	18° 58' 4.341" N	
7	CA25(2)	81° 28' 5.640" E	18° 58' 4.648" N	
8	CA25(3)	81° 28' 7.953" E	18° 58' 2.739" N	
9	CA25(4)	81° 28' 12.886" E	18° 58' 3.177" N	
10	CA25(5)	81° 28' 12.050" E	18° 58' 3.756" N	
11	CA31(1)	81° 28' 13.251" E	18° 58' 3.549" N	
12	CA31(2)	81° 28' 12.385" E	18° 58' 4.098" N	
13	CA31(3)	81° 28' 15.037" E	18° 58' 4.291" N	
14	CA31(4)	81° 28' 14.721" E	18° 58' 5.240" N	
15	CA42(1)	81° 28' 27.030" E	18° 58' 2.665" N	
16	CA42(2)	81° 28' 27.105" E	18° 58' 2.467" N	
17	CA42(3)	81° 28' 30.170" E	18° 58' 3.064" N	
18	CA42(4)	81° 28' 30.014" E	18° 58' 3.266" N	
19	CA328(1)	81° 28' 43.619" E	18° 58' 6.006" N	
20	CA328(2)	81° 28' 44.088" E	18° 58' 5.941" N	
21	CA328(3)	81° 28' 44.138" E	18° 58' 5.113" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
22	CA328(4)	81° 28' 52.699" E	18° 58' 6.837" N	
23	CA328(5)	81° 28' 52.851" E	18° 58' 7.430" N	
24	CA328(6)	81° 28' 52.873" E	18° 58' 7.869" N	
25	CA331(1)	81° 28' 58.036" E	18° 58' 8.867" N	
26	CA331(2)	81° 28' 57.932" E	18° 58' 7.851" N	
27	CA331(3)	81° 29' 1.703" E	18° 58' 8.075" N	
28	CA331(4)	81° 29' 1.986" E	18° 58' 9.027" N	
29	CA359(1)	81° 29' 12.236" E	18° 58' 4.998" N	BAGMUNDI
30	CA359(2)	81° 29' 12.255" E	18° 58' 5.360" N	
31	CA359(3)	81° 29' 14.119" E	18° 58' 4.156" N	
32	CA359(4)	81° 29' 13.608" E	18° 58' 3.816" N	
33	CA359(5)	81° 29' 9.815" E	18° 58' 6.936" N	
34	CA359(6)	81° 29' 9.829" E	18° 58' 6.732" N	
35	CA359(7)	81° 29' 11.042" E	18° 58' 5.795" N	
36	CA359(8)	81° 29' 11.061" E	18° 58' 6.131" N	
37	CA1080(1)	81° 30' 37.277" E	18° 57' 51.795" N	
38	CA1080(2)	81° 30' 37.592" E	18° 57' 50.831" N	
39	CA1080(3)	81° 30' 41.041" E	18° 57' 52.481" N	
40	CA1080(4)	81° 30' 41.811" E	18° 57' 53.304" N	
41	CA1080(5)	81° 30' 42.934" E	18° 57' 54.165" N	
42	CA1080(6)	81° 30' 43.568" E	18° 57' 54.729" N	
43	CA1080(7)	81° 30' 44.350" E	18° 57' 55.750" N	
44	CA1080(8)	81° 30' 44.378" E	18° 57' 56.118" N	
45	CA1080(9)	81° 30' 44.263" E	18° 57' 56.683" N	
46	CA1079(1)	81° 30' 46.928" E	18° 57' 58.999" N	
47	CA1079(2)	81° 30' 47.981" E	18° 57' 59.176" N	
48	CA1079(3)	81° 30' 47.802" E	18° 57' 59.446" N	
49	CA1076(1)	81° 30' 54.083" E	18° 58' 3.177" N	
50	CA1076(2)	81° 30' 54.788" E	18° 58' 2.455" N	
51	CA1076(3)	81° 30' 57.063" E	18° 58' 3.972" N	BASTANAR
52	CA1076(4)	81° 30' 56.586" E	18° 58' 4.846" N	
53	CA1074(1)	81° 30' 56.586" E	18° 58' 4.846" N	
54	CA1074(3)	81° 31' 1.159" E	18° 58' 6.599" N	
55	CA1074(4)	81° 31' 1.026" E	18° 58' 7.677" N	
56	CA1074(2)	81° 30' 57.063" E	18° 58' 3.972" N	
57	CA1035(1)	81° 31' 9.221" E	18° 58' 11.031" N	
58	CA1035(2)	81° 31' 8.879" E	18° 58' 11.958" N	
59	CA1035(3)	81° 31' 10.527" E	18° 58' 12.717" N	
60	CA1035(4)	81° 31' 10.772" E	18° 58' 11.746" N	
61	CA1032(1)	81° 31' 12.970" E	18° 58' 13.842" N	
62	CA1032(2)	81° 31' 13.298" E	18° 58' 12.909" N	
63	CA1032(3)	81° 31' 17.433" E	18° 58' 14.813" N	
64	CA1032(4)	81° 31' 17.064" E	18° 58' 15.728" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
65	1676P(1)	81° 31' 22.365" E	18° 58' 16.526" N	
66	1676P(2)	81° 31' 24.163" E	18° 58' 17.646" N	
67	1676P(3)	81° 31' 30.477" E	18° 58' 17.158" N	
68	1676P(4)	81° 31' 30.356" E	18° 58' 18.128" N	
69	1676P(5)	81° 31' 33.782" E	18° 58' 17.888" N	
70	1676P(6)	81° 31' 33.601" E	18° 58' 18.850" N	
71	1676P(7)	81° 31' 57.931" E	18° 58' 18.304" N	
72	1676P(8)	81° 31' 58.071" E	18° 58' 19.273" N	
73	1676P(9)	81° 32' 2.040" E	18° 58' 17.473" N	
74	1676P(10)	81° 32' 2.381" E	18° 58' 18.396" N	
75	1676P(11)	81° 32' 4.054" E	18° 58' 17.653" N	
76	1676P(12)	81° 32' 5.683" E	18° 58' 16.231" N	
77	1676P(13)	81° 32' 9.294" E	18° 58' 14.238" N	
78	1676P(14)	81° 32' 9.967" E	18° 58' 14.353" N	
79	1676P(15)	81° 32' 11.790" E	18° 58' 13.129" N	
80	1676P(16)	81° 32' 11.531" E	18° 58' 13.925" N	
81	1676P(17)	81° 32' 18.853" E	18° 58' 12.760" N	
82	1676P(18)	81° 32' 17.210" E	18° 58' 13.302" N	
83	CA824(1)	81° 32' 6.565" E	18° 58' 15.455" N	
84	CA824(2)	81° 32' 6.758" E	18° 58' 16.447" N	
85	CA824(3)	81° 32' 10.531" E	18° 58' 14.765" N	
86	CA824(4)	81° 32' 10.474" E	18° 58' 14.440" N	BASTANAR
87	CA824(5)	81° 32' 9.294" E	18° 58' 14.238" N	
88	CA867(1)	81° 32' 41.646" E	18° 58' 3.266" N	
89	CA867(2)	81° 32' 42.192" E	18° 58' 3.339" N	
90	CA867(3)	81° 32' 42.137" E	18° 58' 3.040" N	
91	CA773(1)	81° 32' 47.763" E	18° 58' 1.741" N	
92	CA773(2)	81° 32' 48.265" E	18° 58' 1.961" N	
93	CA773(3)	81° 32' 48.674" E	18° 58' 1.569" N	
94	1672P(1)	81° 33' 14.495" E	18° 58' 4.370" N	
95	1672P(2)	81° 33' 16.303" E	18° 58' 3.490" N	
96	1672P(3)	81° 33' 28.248" E	18° 58' 5.115" N	
97	1672P(4)	81° 33' 28.077" E	18° 58' 4.128" N	
98	1672P(5)	81° 33' 33.026" E	18° 58' 12.056" N	
99	1672P(6)	81° 33' 33.938" E	18° 58' 13.329" N	
100	1672P(7)	81° 33' 32.273" E	18° 58' 20.171" N	
101	1672P(8)	81° 33' 33.302" E	18° 58' 20.181" N	
102	1672P(9)	81° 33' 32.683" E	18° 58' 21.891" N	
103	1672P(10)	81° 33' 33.606" E	18° 58' 21.458" N	
104	1672P(11)	81° 33' 33.181" E	18° 58' 22.630" N	
105	1672P(12)	81° 33' 33.867" E	18° 58' 21.870" N	
106	1672P(13)	81° 33' 34.448" E	18° 58' 23.129" N	
107	1672P(14)	81° 33' 34.578" E	18° 58' 22.148" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
108	1672P(15)	81° 33' 47.973" E	18° 58' 22.305" N	
109	1672P(16)	81° 33' 46.835" E	18° 58' 21.397" N	
110	1672P(17)	81° 33' 54.675" E	18° 58' 21.894" N	
111	1672P(18)	81° 33' 54.795" E	18° 58' 20.908" N	
112	1672P(19)	81° 34' 20.653" E	18° 58' 20.267" N	
113	1672P(20)	81° 34' 20.516" E	18° 58' 19.298" N	
114	CA526(1)	81° 33' 47.973" E	18° 58' 22.305" N	
115	CA526(2)	81° 33' 46.835" E	18° 58' 21.397" N	
116	CA526(3)	81° 33' 48.228" E	18° 58' 21.546" N	BASTANAR
117	CA526(4)	81° 33' 48.237" E	18° 58' 21.311" N	
118	CA526(5)	81° 33' 53.524" E	18° 58' 20.986" N	
119	CA526(6)	81° 33' 53.455" E	18° 58' 21.969" N	
120	CA527(1)	81° 33' 53.524" E	18° 58' 20.986" N	
121	CA527(2)	81° 33' 53.455" E	18° 58' 21.969" N	
122	CA527(3)	81° 33' 54.675" E	18° 58' 21.894" N	
123	CA527(4)	81° 33' 54.795" E	18° 58' 20.908" N	
124	CA5(1)	81° 34' 35.666" E	18° 58' 24.434" N	
125	CA5(2)	81° 34' 35.933" E	18° 58' 25.379" N	
126	CA5(3)	81° 34' 36.717" E	18° 58' 25.238" N	
127	CA5(4)	81° 34' 36.579" E	18° 58' 24.269" N	
128	CA16(1)	81° 34' 51.947" E	18° 58' 23.906" N	IRIPA
129	CA16(2)	81° 34' 51.137" E	18° 58' 24.578" N	
130	CA16(3)	81° 34' 51.371" E	18° 58' 24.749" N	
131	CA16(4)	81° 34' 55.012" E	18° 58' 25.951" N	
132	CA16(5)	81° 34' 56.146" E	18° 58' 25.292" N	
133	CA262(1)	81° 34' 56.898" E	18° 58' 26.573" N	
134	CA262(2)	81° 34' 55.012" E	18° 58' 25.951" N	JAMGAON
135	CA262(3)	81° 34' 56.146" E	18° 58' 25.292" N	
136	CA535/1(1)	81° 34' 56.530" E	18° 58' 25.419" N	
137	CA535/1(2)	81° 34' 57.346" E	18° 58' 26.721" N	
138	CA535/1(3)	81° 35' 11.467" E	18° 58' 26.527" N	
139	CA535/1(4)	81° 35' 11.505" E	18° 58' 26.164" N	
140	CA535/1(5)	81° 35' 11.809" E	18° 58' 25.923" N	
141	CA535/1(6)	81° 35' 11.655" E	18° 58' 25.624" N	
142	CA535/1(7)	81° 35' 12.059" E	18° 58' 25.454" N	
143	CA535/1(8)	81° 35' 12.136" E	18° 58' 26.430" N	KILEPAL
144	CA535/1(9)	81° 35' 15.388" E	18° 58' 28.126" N	
145	CA535/1(10)	81° 35' 15.832" E	18° 58' 28.417" N	
146	CA535/1(11)	81° 35' 16.271" E	18° 58' 28.721" N	
147	CA315(1)	81° 36' 50.557" E	18° 58' 56.915" N	
148	CA315(2)	81° 36' 50.720" E	18° 58' 57.731" N	
149	CA315(3)	81° 36' 51.164" E	18° 58' 57.639" N	
150	CA315(4)	81° 36' 51.693" E	18° 58' 57.301" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
151	CA315(5)	81° 36' 52.062" E	18° 58' 57.426" N	
152	CA315(6)	81° 36' 52.218" E	18° 58' 57.479" N	
153	CA315(7)	81° 36' 52.487" E	18° 58' 57.571" N	
154	CA315(8)	81° 36' 52.533" E	18° 58' 57.671" N	
155	CA315(9)	81° 36' 52.331" E	18° 58' 57.817" N	
156	CA315(10)	81° 36' 52.456" E	18° 58' 57.979" N	
157	CA315(11)	81° 36' 51.960" E	18° 58' 58.162" N	
158	CA315(12)	81° 36' 51.843" E	18° 58' 58.388" N	
159	CA315(13)	81° 36' 59.524" E	18° 58' 59.959" N	
160	CA315(14)	81° 36' 59.868" E	18° 59' 0.594" N	
161	CA315(15)	81° 37' 0.221" E	18° 59' 1.232" N	
162	CA429(1)	81° 37' 6.124" E	18° 59' 3.091" N	
163	CA429(2)	81° 37' 6.448" E	18° 59' 2.164" N	KILEPAL
164	CA429(3)	81° 37' 8.491" E	18° 59' 3.812" N	
165	CA1086/2(1)	81° 38' 19.342" E	18° 59' 20.427" N	
166	CA1086/2(2)	81° 38' 19.618" E	18° 59' 19.762" N	
167	CA1086/2(3)	81° 38' 21.557" E	18° 59' 20.968" N	
168	CA1086/2(4)	81° 38' 21.461" E	18° 59' 21.100" N	
169	CA1086/2(5)	81° 38' 22.232" E	18° 59' 21.648" N	
170	CA1086/2(6)	81° 38' 22.395" E	18° 59' 21.517" N	
171	CA1086/2(7)	81° 38' 22.885" E	18° 59' 22.256" N	
172	CA1086/2(8)	81° 38' 22.880" E	18° 59' 22.405" N	
173	CA1086/2(9)	81° 38' 22.305" E	18° 59' 22.296" N	
174	CA1086/2(10)	81° 38' 21.759" E	18° 59' 22.057" N	
175	CA1086/2(11)	81° 38' 21.152" E	18° 59' 21.505" N	
176	CA1060(1)	81° 40' 1.963" E	18° 59' 36.503" N	
177	CA1060(2)	81° 40' 2.378" E	18° 59' 36.755" N	
178	CA1060(3)	81° 40' 2.378" E	18° 59' 36.588" N	
179	CA1059(1)	81° 40' 2.378" E	18° 59' 36.755" N	
180	CA1059(2)	81° 40' 2.378" E	18° 59' 36.588" N	
181	CA1059(3)	81° 40' 6.037" E	18° 59' 37.335" N	
182	CA1059(4)	81° 40' 6.042" E	18° 59' 37.752" N	
183	CA1059(5)	81° 40' 4.333" E	18° 59' 37.619" N	
184	CA1059(6)	81° 40' 2.909" E	18° 59' 37.078" N	
185	CA954(1)	81° 40' 7.558" E	18° 59' 38.644" N	KODENAR
186	CA954(2)	81° 40' 7.963" E	18° 59' 37.729" N	
187	CA954(3)	81° 40' 9.809" E	18° 59' 38.106" N	
188	CA954(4)	81° 40' 9.674" E	18° 59' 39.076" N	
189	CA945(1)	81° 40' 27.750" E	18° 59' 41.770" N	
190	CA945(2)	81° 40' 28.588" E	18° 59' 42.440" N	
191	CA945(3)	81° 40' 28.686" E	18° 59' 42.382" N	
192	CA945(4)	81° 40' 28.974" E	18° 59' 42.285" N	
193	CA945(5)	81° 40' 29.081" E	18° 59' 42.429" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
194	CA945(6)	81° 40' 29.112" E	18° 59' 42.583" N	KODENAR
195	CA945(7)	81° 40' 29.289" E	18° 59' 43.082" N	
196	CA945(8)	81° 40' 29.759" E	18° 59' 43.178" N	
197	CA945(10)	81° 40' 29.977" E	18° 59' 42.224" N	
198	CA945(9)	81° 40' 29.740" E	18° 59' 42.630" N	
199	CA143(1)	81° 41' 27.417" E	19° 0' 1.313" N	TIRTHUM
200	CA143(2)	81° 41' 28.258" E	19° 0' 1.120" N	
201	CA143(3)	81° 41' 29.381" E	19° 0' 0.705" N	
202	CA143(4)	81° 41' 29.525" E	19° 0' 0.832" N	
203	CA143(5)	81° 41' 28.793" E	19° 0' 1.370" N	
204	CA143(6)	81° 41' 29.219" E	19° 0' 1.604" N	
205	CA143(7)	81° 41' 31.708" E	19° 0' 0.524" N	
206	CA143(8)	81° 41' 31.262" E	18° 59' 59.645" N	
207	CA142(2)	81° 41' 31.708" E	19° 0' 0.524" N	
208	CA142(1)	81° 41' 31.262" E	18° 59' 59.645" N	
209	CA142(3)	81° 41' 33.421" E	18° 59' 59.781" N	
210	CA142(5)	81° 41' 33.844" E	18° 59' 58.524" N	
211	CA142(4)	81° 41' 34.198" E	18° 59' 59.329" N	
212	CA132(1)	81° 41' 36.301" E	18° 59' 58.531" N	
213	CA132(3)	81° 41' 39.389" E	18° 59' 57.191" N	
214	CA132(2)	81° 41' 38.284" E	18° 59' 57.023" N	
215	CA130(1)	81° 41' 40.144" E	18° 59' 55.790" N	
216	CA130(2)	81° 41' 40.725" E	18° 59' 56.611" N	
217	CA130(3)	81° 41' 42.137" E	18° 59' 55.998" N	
218	CA130(4)	81° 41' 42.319" E	18° 59' 55.829" N	
219	CA130(5)	81° 41' 41.899" E	18° 59' 55.029" N	
220	CA274(1)	81° 41' 49.499" E	18° 59' 51.731" N	
221	CA274(3)	81° 41' 50.002" E	18° 59' 51.512" N	
222	CA274(2)	81° 41' 49.682" E	18° 59' 51.843" N	
223	CA292(1)	81° 41' 59.619" E	18° 59' 52.437" N	
224	CA292(2)	81° 41' 59.683" E	18° 59' 53.436" N	
225	CA292(3)	81° 42' 1.483" E	18° 59' 53.712" N	
226	CA292(4)	81° 42' 1.391" E	18° 59' 52.709" N	
227	CA46(1)	81° 42' 22.514" E	18° 59' 54.957" N	GURRAM
228	CA46(2)	81° 42' 22.788" E	18° 59' 55.944" N	
229	CA46(3)	81° 42' 50.560" E	18° 59' 53.424" N	
230	CA46(4)	81° 42' 50.505" E	18° 59' 52.937" N	
231	CA46(5)	81° 42' 50.603" E	18° 59' 52.446" N	
232	CA225(1)	81° 42' 51.802" E	18° 59' 52.414" N	
233	CA225(2)	81° 42' 52.494" E	18° 59' 52.588" N	
234	CA225(3)	81° 42' 54.131" E	18° 59' 52.552" N	
235	CA225(4)	81° 42' 55.224" E	18° 59' 52.321" N	
236	CA225(5)	81° 43' 5.803" E	18° 59' 52.035" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
237	CA225(6)	81° 43' 6.110" E	18° 59' 52.147" N	
238	CA58(1)	81° 42' 59.659" E	18° 59' 53.178" N	
239	CA58(2)	81° 42' 59.469" E	18° 59' 52.207" N	
240	CA58(3)	81° 43' 5.803" E	18° 59' 52.035" N	
241	CA58(4)	81° 43' 6.110" E	18° 59' 52.147" N	
242	CA58(6)	81° 43' 7.459" E	18° 59' 52.967" N	
243	CA58(5)	81° 43' 7.126" E	18° 59' 52.037" N	GURRAM
244	CA224(7)	81° 43' 7.308" E	18° 59' 51.995" N	
245	CA224(1)	81° 43' 7.459" E	18° 59' 52.967" N	
246	CA224(2)	81° 43' 7.126" E	18° 59' 52.037" N	
247	CA224(3)	81° 43' 7.308" E	18° 59' 51.995" N	
248	CA224(4)	81° 43' 14.395" E	18° 59' 53.487" N	
249	CA224(5)	81° 43' 14.426" E	18° 59' 54.528" N	
250	CA313(1)	81° 44' 41.375" E	18° 59' 50.823" N	
251	CA313(8)	81° 44' 49.520" E	18° 59' 50.595" N	
252	CA313(2)	81° 44' 41.442" E	18° 59' 50.685" N	
253	CA313(3)	81° 44' 42.569" E	18° 59' 50.215" N	
254	CA313(4)	81° 44' 42.556" E	18° 59' 49.814" N	
255	CA313(5)	81° 44' 50.057" E	18° 59' 49.604" N	
256	CA313(6)	81° 44' 49.835" E	18° 59' 49.674" N	
257	CA313(7)	81° 44' 49.790" E	18° 59' 50.529" N	
258	CA440(1)	81° 45' 2.037" E	18° 59' 50.965" N	DILMILLI
259	CA440(2)	81° 45' 1.916" E	18° 59' 51.365" N	
260	CA440(3)	81° 45' 2.145" E	18° 59' 51.460" N	
261	CA340(4)	81° 45' 2.777" E	18° 59' 51.445" N	
262	CA340(5)	81° 45' 3.729" E	18° 59' 51.272" N	
263	CA340(1)	81° 45' 28.461" E	18° 59' 51.218" N	
264	CA340(2)	81° 45' 28.504" E	18° 59' 51.339" N	
265	CA340(3)	81° 45' 29.032" E	18° 59' 51.302" N	
266	CA340(4)	81° 45' 28.930" E	18° 59' 51.116" N	
267	CA95/875(1)	81° 46' 9.304" E	19° 0' 6.699" N	
268	CA95/875(2)	81° 46' 10.163" E	19° 0' 6.153" N	
269	CA95/875(3)	81° 46' 11.281" E	19° 0' 8.254" N	
270	CA95/875(4)	81° 46' 10.638" E	19° 0' 8.692" N	
271	CA95/875(5)	81° 46' 10.417" E	19° 0' 8.790" N	
272	CA52(1)	81° 46' 13.940" E	19° 0' 15.409" N	
273	CA52(2)	81° 46' 14.982" E	19° 0' 15.206" N	MAVLIBHATTA
274	CA52(3)	81° 46' 15.144" E	19° 0' 15.511" N	
275	CA52(4)	81° 46' 15.275" E	19° 0' 16.057" N	
276	CA52(5)	81° 46' 15.571" E	19° 0' 16.618" N	
277	CA52(6)	81° 46' 15.817" E	19° 0' 17.400" N	
278	CA609(1)	81° 46' 17.359" E	19° 0' 16.569" N	
279	CA609(2)	81° 46' 17.377" E	19° 0' 16.636" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
280	CA609(3)	81° 46' 17.665" E	19° 0' 16.599" N	
281	CA721(1)	81° 47' 7.467" E	19° 0' 31.839" N	
282	CA721(2)	81° 47' 7.512" E	19° 0' 32.163" N	
283	CA721(3)	81° 47' 7.729" E	19° 0' 32.558" N	
284	CA721(4)	81° 47' 7.945" E	19° 0' 32.780" N	
285	CA721(5)	81° 47' 8.398" E	19° 0' 32.560" N	
286	CA719(1)	81° 47' 9.406" E	19° 0' 34.597" N	
287	CA719(2)	81° 47' 10.262" E	19° 0' 34.000" N	
288	CA719(3)	81° 47' 9.782" E	19° 0' 34.887" N	
289	CA719(4)	81° 47' 10.556" E	19° 0' 34.228" N	
290	CA742(1)	81° 47' 11.034" E	19° 0' 35.855" N	
291	CA742(2)	81° 47' 11.296" E	19° 0' 35.720" N	
292	CA742(3)	81° 47' 11.518" E	19° 0' 34.972" N	
293	CA742(4)	81° 47' 13.472" E	19° 0' 36.482" N	
294	CA742(5)	81° 47' 12.626" E	19° 0' 37.086" N	
295	CA742(6)	81° 47' 12.234" E	19° 0' 36.783" N	
296	CA742(7)	81° 47' 11.684" E	19° 0' 36.034" N	
297	CA742(8)	81° 47' 11.519" E	19° 0' 36.230" N	
298	CA784(1)	81° 47' 49.281" E	19° 0' 31.737" N	
299	CA784(2)	81° 47' 49.289" E	19° 0' 31.435" N	
300	CA784(3)	81° 47' 47.627" E	19° 0' 30.815" N	
301	CA784(4)	81° 47' 55.158" E	19° 0' 30.713" N	MAVLIBHATTA
302	CA784(5)	81° 47' 54.844" E	19° 0' 30.965" N	
303	CA784(6)	81° 47' 55.113" E	19° 0' 31.549" N	
304	CA784(7)	81° 47' 55.819" E	19° 0' 31.747" N	
305	CA784(8)	81° 47' 56.040" E	19° 0' 31.918" N	
306	CA784(9)	81° 47' 56.333" E	19° 0' 31.928" N	
307	CA784(10)	81° 47' 56.545" E	19° 0' 31.960" N	
308	CA784(11)	81° 47' 56.741" E	19° 0' 32.060" N	
309	CA784(12)	81° 47' 56.729" E	19° 0' 32.122" N	
310	CA784(13)	81° 47' 54.014" E	19° 0' 31.581" N	
311	CA784(14)	81° 47' 53.878" E	19° 0' 31.128" N	
312	CA784(15)	81° 47' 53.537" E	19° 0' 31.237" N	
313	CA784(16)	81° 47' 53.296" E	19° 0' 31.207" N	
314	CA784(17)	81° 47' 53.072" E	19° 0' 31.135" N	
315	CA784(18)	81° 47' 52.567" E	19° 0' 31.338" N	
316	CA784(19)	81° 47' 52.184" E	19° 0' 31.641" N	
317	CA785(3)	81° 47' 59.411" E	19° 0' 32.805" N	
318	CA785(2)	81° 47' 59.257" E	19° 0' 32.634" N	
319	CA785(1)	81° 47' 58.692" E	19° 0' 32.621" N	
320	CA787(1)	81° 48' 0.486" E	19° 0' 33.078" N	
321	CA787(2)	81° 48' 0.409" E	19° 0' 32.902" N	
322	CA787(3)	81° 48' 0.436" E	19° 0' 32.729" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
323	CA787(4)	81° 48' 1.559" E	19° 0' 32.880" N	MAVLIBHATTA
324	CA787(5)	81° 48' 1.711" E	19° 0' 33.268" N	
325	CA787(6)	81° 48' 1.571" E	19° 0' 33.354" N	
326	CA822(1)	81° 48' 8.135" E	19° 0' 34.013" N	
327	CA822(2)	81° 48' 8.303" E	19° 0' 34.528" N	
328	CA822(3)	81° 48' 8.885" E	19° 0' 34.513" N	
329	CA822(4)	81° 48' 8.983" E	19° 0' 34.228" N	
330	CA818(1)	81° 48' 10.681" E	19° 0' 35.670" N	
331	CA818(2)	81° 48' 10.002" E	19° 0' 34.487" N	
332	CA818(3)	81° 48' 15.391" E	19° 0' 35.858" N	
333	CA818(4)	81° 48' 15.704" E	19° 0' 36.948" N	
334	CA817(1)	81° 48' 15.704" E	19° 0' 36.948" N	
335	CA817(2)	81° 48' 15.391" E	19° 0' 35.858" N	
336	CA817(3)	81° 48' 18.924" E	19° 0' 36.756" N	
337	CA817(4)	81° 48' 17.922" E	19° 0' 37.512" N	
338	CA817(5)	81° 48' 20.395" E	19° 0' 37.130" N	
339	CA817(6)	81° 48' 20.457" E	19° 0' 37.295" N	
340	CA817(7)	81° 48' 20.816" E	19° 0' 37.237" N	
341	CA816(1)	81° 48' 17.922" E	19° 0' 37.512" N	
342	CA816(2)	81° 48' 18.924" E	19° 0' 36.756" N	
343	CA816(3)	81° 48' 20.395" E	19° 0' 37.130" N	
344	CA816(4)	81° 48' 20.457" E	19° 0' 37.295" N	
345	CA816(5)	81° 48' 18.890" E	19° 0' 37.758" N	
346	CA815(1)	81° 48' 25.458" E	19° 0' 39.428" N	
347	CA815(2)	81° 48' 25.033" E	19° 0' 38.309" N	
348	CA815(3)	81° 48' 28.246" E	19° 0' 39.126" N	
349	CA815(4)	81° 48' 28.471" E	19° 0' 39.689" N	
350	CA815(5)	81° 48' 27.298" E	19° 0' 39.896" N	
351	CA1(1)	81° 48' 28.852" E	19° 0' 40.291" N	MANDWA
352	CA1(2)	81° 48' 28.471" E	19° 0' 39.689" N	
353	CA1(3)	81° 48' 28.246" E	19° 0' 39.126" N	
354	CA1(4)	81° 48' 30.879" E	19° 0' 39.796" N	
355	CA1(5)	81° 48' 30.116" E	19° 0' 40.612" N	
356	CA3(1)	81° 48' 30.679" E	19° 0' 40.382" N	
357	CA3(2)	81° 48' 31.174" E	19° 0' 39.871" N	
358	CA3(3)	81° 48' 31.492" E	19° 0' 39.952" N	
359	CA3(4)	81° 48' 30.744" E	19° 0' 40.399" N	
360	CA900(1)	81° 48' 30.386" E	19° 0' 40.681" N	RAIKOT
361	CA900(2)	81° 48' 31.492" E	19° 0' 39.952" N	
362	CA900(3)	81° 48' 35.364" E	19° 0' 40.936" N	
363	CA900(4)	81° 48' 35.432" E	19° 0' 41.964" N	
364	CA901(1)	81° 48' 35.432" E	19° 0' 41.964" N	
365	CA901(2)	81° 48' 35.364" E	19° 0' 40.936" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
366	CA901(3)	81° 48' 39.900" E	19° 0' 42.089" N	
367	CA901(4)	81° 48' 39.766" E	19° 0' 43.066" N	
368	1637P(1)	81° 48' 43.241" E	19° 0' 43.949" N	
369	1637P(2)	81° 48' 44.098" E	19° 0' 43.158" N	
370	1637P(3)	81° 48' 53.490" E	19° 0' 46.554" N	
371	1637P(4)	81° 48' 53.796" E	19° 0' 45.622" N	
372	1637P(5)	81° 49' 2.256" E	19° 0' 50.560" N	
373	1637P(6)	81° 49' 2.622" E	19° 0' 49.643" N	
374	1637P(7)	81° 49' 10.436" E	19° 0' 52.404" N	
375	1637P(8)	81° 49' 10.826" E	19° 0' 51.488" N	
376	1637P(9)	81° 49' 13.013" E	19° 0' 55.061" N	
377	1637P(10)	81° 49' 13.399" E	19° 0' 54.032" N	
378	CA383(1)	81° 49' 34.032" E	19° 0' 54.532" N	
379	CA383(2)	81° 49' 33.846" E	19° 0' 54.353" N	
380	CA383(3)	81° 49' 33.703" E	19° 0' 53.885" N	
381	CA383(4)	81° 49' 35.166" E	19° 0' 53.513" N	
382	CA383(5)	81° 49' 35.305" E	19° 0' 53.983" N	
383	CA383(6)	81° 49' 34.538" E	19° 0' 54.257" N	
384	CA747(1)	81° 49' 56.452" E	19° 0' 49.157" N	
385	CA747(2)	81° 49' 56.848" E	19° 0' 49.285" N	
386	CA747(3)	81° 49' 57.083" E	19° 0' 49.319" N	
387	CA747(4)	81° 49' 57.036" E	19° 0' 49.111" N	RAIKOT
388	CA745(1)	81° 50' 1.820" E	19° 0' 49.223" N	
389	CA745(2)	81° 50' 1.827" E	19° 0' 48.733" N	
390	CA745(3)	81° 50' 6.251" E	19° 0' 48.385" N	
391	CA745(4)	81° 50' 6.398" E	19° 0' 48.993" N	
392	CA745(5)	81° 50' 5.936" E	19° 0' 48.814" N	
393	CA745(6)	81° 50' 5.612" E	19° 0' 49.074" N	
394	CA745(7)	81° 50' 4.970" E	19° 0' 49.249" N	
395	CA745(8)	81° 50' 4.012" E	19° 0' 49.348" N	
396	CA745(9)	81° 50' 2.862" E	19° 0' 49.069" N	
397	CA745(10)	81° 50' 2.552" E	19° 0' 49.127" N	
398	CA749(1)	81° 50' 39.323" E	19° 0' 38.269" N	
399	CA749(2)	81° 50' 39.056" E	19° 0' 38.196" N	
400	CA749(3)	81° 50' 38.766" E	19° 0' 38.197" N	
401	CA749(4)	81° 50' 37.711" E	19° 0' 37.760" N	
402	CA749(5)	81° 50' 36.710" E	19° 0' 37.416" N	
403	CA749(6)	81° 50' 42.422" E	19° 0' 37.144" N	
404	CA749(7)	81° 50' 42.479" E	19° 0' 38.119" N	
405	CA752(1)	81° 50' 43.997" E	19° 0' 38.046" N	
406	CA752(2)	81° 50' 43.934" E	19° 0' 37.561" N	
407	CA752(3)	81° 50' 43.851" E	19° 0' 37.076" N	
408	CA752(4)	81° 50' 52.380" E	19° 0' 36.671" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
409	CA752(5)	81° 50' 52.523" E	19° 0' 37.641" N	RAIKOT
410	CA5(1)	81° 51' 0.074" E	19° 0' 38.232" N	ERANDWAL
411	CA5(2)	81° 50' 59.888" E	19° 0' 37.696" N	
412	CA5(3)	81° 50' 59.734" E	19° 0' 37.167" N	
413	CA5(4)	81° 51' 5.536" E	19° 0' 40.840" N	
414	CA5(5)	81° 51' 4.444" E	19° 0' 41.064" N	
415	CA238(1)	81° 51' 10.259" E	19° 0' 48.056" N	BADEARAPUR
416	CA238(2)	81° 51' 10.709" E	19° 0' 47.712" N	
417	CA238(3)	81° 51' 10.823" E	19° 0' 47.576" N	
418	CA238(4)	81° 51' 11.255" E	19° 0' 47.979" N	
419	CA238(5)	81° 51' 10.583" E	19° 0' 48.394" N	
420	CA226(1)	81° 51' 15.780" E	19° 0' 53.826" N	
421	CA226(2)	81° 51' 17.781" E	19° 0' 54.467" N	
422	CA226(3)	81° 51' 18.787" E	19° 0' 55.519" N	
423	CA226(4)	81° 51' 17.946" E	19° 0' 56.089" N	
424	CA221(1)	81° 51' 19.685" E	19° 0' 57.907" N	
425	CA221(2)	81° 51' 20.286" E	19° 0' 57.085" N	
426	CA221(3)	81° 51' 20.483" E	19° 0' 57.291" N	
427	CA221(4)	81° 51' 19.843" E	19° 0' 58.072" N	
428	CA218(1)	81° 51' 23.838" E	19° 1' 0.476" N	
429	CA218(2)	81° 51' 23.789" E	19° 1' 0.390" N	
430	CA218(3)	81° 51' 24.701" E	19° 0' 59.767" N	
431	CA218(4)	81° 51' 25.322" E	19° 1' 0.021" N	
432	CA218(5)	81° 51' 24.337" E	19° 1' 0.680" N	
433	CA203(1)	81° 51' 24.697" E	19° 1' 0.828" N	
434	CA203(2)	81° 51' 25.725" E	19° 1' 0.186" N	
435	CA203(3)	81° 51' 26.205" E	19° 1' 0.383" N	
436	CA203(4)	81° 51' 25.260" E	19° 1' 1.058" N	
437	CA201(1)	81° 51' 25.260" E	19° 1' 1.058" N	
438	CA201(2)	81° 51' 25.490" E	19° 1' 0.901" N	
439	CA201(2)	81° 51' 25.490" E	19° 1' 0.901" N	
440	CA201(3)	81° 51' 25.641" E	19° 1' 1.214" N	
441	CA195(1)	81° 51' 32.579" E	19° 1' 3.388" N	
442	CA195(2)	81° 51' 31.938" E	19° 1' 2.414" N	
443	CA195(3)	81° 51' 32.724" E	19° 1' 2.412" N	
444	CA195(4)	81° 51' 33.645" E	19° 1' 3.385" N	
445	CA273(1)	81° 51' 34.103" E	19° 1' 3.383" N	
446	CA273(2)	81° 51' 33.173" E	19° 1' 2.410" N	
447	CA273(3)	81° 51' 34.019" E	19° 1' 2.408" N	
448	CA273(4)	81° 51' 34.261" E	19° 1' 3.154" N	
449	CA273(5)	81° 51' 34.389" E	19° 1' 3.383" N	
450	CA91(1)	81° 52' 39.540" E	19° 1' 3.072" N	PARPA
451	CA91(2)	81° 52' 39.180" E	19° 1' 2.212" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
452	CA91(3)	81° 52' 39.676" E	19° 1' 2.198" N	
453	CA95(1)	81° 52' 39.887" E	19° 1' 3.158" N	
454	CA95(2)	81° 52' 39.942" E	19° 1' 2.171" N	
455	CA95(3)	81° 52' 40.549" E	19° 1' 2.108" N	
456	CA95(4)	81° 52' 40.625" E	19° 1' 2.457" N	
457	CA95(5)	81° 52' 40.742" E	19° 1' 2.831" N	
458	CA95(6)	81° 52' 40.775" E	19° 1' 3.067" N	
459	CA104(1)	81° 52' 40.956" E	19° 1' 3.048" N	
460	CA104(2)	81° 52' 40.762" E	19° 1' 2.086" N	PARPA
461	CA104(3)	81° 52' 42.148" E	19° 1' 1.943" N	
462	CA104(4)	81° 52' 42.254" E	19° 1' 2.790" N	
463	CA104(5)	81° 52' 41.662" E	19° 1' 2.975" N	
464	CA118(1)	81° 52' 44.191" E	19° 1' 2.455" N	
465	CA118(2)	81° 52' 44.079" E	19° 1' 1.743" N	
466	CA118(3)	81° 52' 45.063" E	19° 1' 1.642" N	
467	CA118(4)	81° 52' 45.172" E	19° 1' 2.121" N	
468	CA118(5)	81° 52' 44.384" E	19° 1' 2.413" N	
469	151ca{10}1S	81° 56' 4.648" E	19° 1' 50.351" N	
470	151TM3{20}E	81° 56' 8.070" E	19° 1' 49.746" N	
471	151TM3{10}E	81° 56' 7.984" E	19° 1' 49.433" N	
472	151TM3{10}R	81° 56' 6.393" E	19° 1' 50.001" N	
473	151TM2{20}R	81° 56' 6.451" E	19° 1' 50.325" N	
474	151TM1{20}S	81° 56' 4.651" E	19° 1' 50.678" N	
475	151TM1{10}S	81° 56' 4.649" E	19° 1' 50.351" N	
476	147TM1{20}S	81° 56' 8.067" E	19° 1' 49.747" N	
477	147TM1{10}S	81° 56' 7.986" E	19° 1' 49.432" N	TELEMARENGA
478	147TM2{20}R	81° 56' 9.505" E	19° 1' 48.880" N	
479	147TM2{20}R	81° 56' 9.605" E	19° 1' 49.196" N	
480	147TM3{10}R	81° 56' 11.303" E	19° 1' 48.248" N	
481	147TM3{20}R	81° 56' 11.407" E	19° 1' 48.561" N	
482	147TM4{20}R	81° 56' 13.082" E	19° 1' 47.968" N	
483	147TM4{10}R	81° 56' 12.965" E	19° 1' 47.657" N	
484	147TM5{20}E	81° 56' 13.511" E	19° 1' 47.824" N	
485	147TM5{10}E	81° 56' 13.384" E	19° 1' 47.526" N	
486	256TM1{20}	81° 56' 24.566" E	19° 1' 43.938" N	
487	256TM1{10}S	81° 56' 24.435" E	19° 1' 43.661" N	
488	256TM2{10}R	81° 56' 25.953" E	19° 1' 43.098" N	
489	256TM2{20}R	81° 56' 26.079" E	19° 1' 43.402" N	DONGRIGURA
490	256TM3{10}E	81° 56' 27.516" E	19° 1' 42.553" N	
491	256TM3{20}E	81° 56' 27.756" E	19° 1' 42.795" N	
492	312DG1{20}S	81° 56' 29.642" E	19° 1' 41.534" N	
493	312DG1{10}S	81° 56' 29.433" E	19° 1' 41.280" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
494	312DG2{10}E	81° 56' 30.874" E	19° 1' 40.853" N	
495	312DG2{20}E	81° 56' 30.968" E	19° 1' 41.163" N	
496	415DG1{20}S	81° 56' 43.459" E	19° 1' 39.606" N	
497	415DG1{10}S	81° 56' 43.424" E	19° 1' 39.276" N	
498	415DG2{20}R	81° 56' 45.647" E	19° 1' 39.337" N	
499	415DG2{10}R	81° 56' 45.583" E	19° 1' 39.014" N	
500	415DG3{10}R	81° 56' 48.883" E	19° 1' 38.548" N	
501	415DG3{20}R	81° 56' 48.948" E	19° 1' 38.864" N	
502	415DG4{20}R	81° 56' 51.939" E	19° 1' 38.409" N	
503	415DG4{10}R	81° 56' 51.847" E	19° 1' 38.094" N	
504	415DG5{10}R	81° 56' 54.781" E	19° 1' 37.643" N	
505	415DG5{20}R	81° 56' 54.849" E	19° 1' 37.965" N	
506	415DG6{20}R	81° 56' 58.083" E	19° 1' 37.476" N	DONGRIGURA
507	415DG6{10}R	81° 56' 57.975" E	19° 1' 37.159" N	
508	415DG7{10}R	81° 57' 0.000" E	19° 1' 36.867" N	
509	415DG7{20}R	81° 57' 0.074" E	19° 1' 37.180" N	
510	415DG8{20}R	81° 57' 2.460" E	19° 1' 36.843" N	
511	415DG8{10}R	81° 57' 2.413" E	19° 1' 36.512" N	
512	415DG9{10}E	81° 57' 5.099" E	19° 1' 36.087" N	
513	415DG9{20}E	81° 57' 5.146" E	19° 1' 36.413" N	
514	288DG1{20}S	81° 57' 24.225" E	19° 1' 41.826" N	
515	288DG1{10}S	81° 57' 24.406" E	19° 1' 41.544" N	
516	288DG2{10}E	81° 57' 26.041" E	19° 1' 42.538" N	
517	288DG2{20}E	81° 57' 25.857" E	19° 1' 42.814" N	
518	9BU1{20}S	81° 57' 35.163" E	19° 1' 48.592" N	
519	9BU1{10}S	81° 57' 35.373" E	19° 1' 48.324" N	
520	9BU2{10}R	81° 57' 36.540" E	19° 1' 49.040" N	
521	9BU2{20}R	81° 57' 36.331" E	19° 1' 49.306" N	
522	9BU3{20}E	81° 57' 37.520" E	19° 1' 50.044" N	
523	9BU3{10}E	81° 57' 37.706" E	19° 1' 49.763" N	
524	9BU4{10}E	81° 57' 38.807" E	19° 1' 50.434" N	
525	9BU4{20}E	81° 57' 38.617" E	19° 1' 50.709" N	
526	13BU1{20}	81° 57' 47.049" E	19° 1' 53.351" N	
527	13BU1{10}S	81° 57' 46.952" E	19° 1' 53.034" N	BRUNGANPAL
528	13BU2{10}R	81° 57' 48.102" E	19° 1' 52.794" N	
529	13BU2{20}R	81° 57' 48.226" E	19° 1' 53.107" N	
530	13BU3{20}R	81° 57' 50.954" E	19° 1' 52.477" N	
531	13BU3{10}E	81° 57' 50.845" E	19° 1' 52.163" N	
532	18BU1{10}S	81° 57' 51.643" E	19° 1' 51.956" N	
533	18BU1{20}S	81° 57' 51.730" E	19° 1' 52.276" N	
534	18BU2{20}R	81° 57' 52.897" E	19° 1' 51.964" N	
535	18BU2{10}R	81° 57' 52.803" E	19° 1' 51.643" N	
536	18BU3{20}E	81° 57' 55.695" E	19° 1' 51.217" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
537	18BU3{10}E	81° 57' 55.575" E	19° 1' 50.903" N	
538	149BU1{20}S	81° 58' 5.932" E	19° 1' 47.610" N	
539	149BU1{10}S	81° 58' 5.791" E	19° 1' 47.309" N	
540	149BU2{10}R	81° 58' 8.798" E	19° 1' 46.068" N	BRUNGANPAL
541	149BU2{20}R	81° 58' 8.941" E	19° 1' 46.367" N	
542	149BU3{10}E	81° 58' 9.595" E	19° 1' 45.724" N	
543	149BU3{20}E	81° 58' 9.735" E	19° 1' 46.024" N	
544	1320PP1{10}S	81° 58' 10.906" E	19° 1' 45.153" N	
545	1320PP1{20}S	81° 58' 11.104" E	19° 1' 45.422" N	
546	1320PP2{10}R	81° 58' 11.596" E	19° 1' 44.740" N	
547	1320PP2{20}R	81° 58' 11.787" E	19° 1' 45.010" N	
548	1320PP3{10}R	81° 58' 12.399" E	19° 1' 44.081" N	
549	1320PP3{20}R	81° 58' 12.658" E	19° 1' 44.295" N	
550	1320PP4{20}R	81° 58' 13.131" E	19° 1' 43.776" N	
551	1320PP4{10}R	81° 58' 12.935" E	19° 1' 43.580" N	
552	1320PP5{10}R	81° 58' 13.681" E	19° 1' 44.718" N	
553	1320PP5{10}R	81° 58' 13.872" E	19° 1' 44.985" N	
554	1320PP5{20}R	81° 58' 15.241" E	19° 1' 43.321" N	
555	1320PP5{10}R	81° 58' 15.465" E	19° 1' 43.558" N	
556	1320PP6{20}R	81° 58' 17.238" E	19° 1' 41.363" N	
557	1320PP6{10}R	81° 58' 17.456" E	19° 1' 41.613" N	
558	1320PP7{20}R	81° 58' 18.475" E	19° 1' 40.341" N	
559	1320PP7{10}R	81° 58' 18.681" E	19° 1' 40.591" N	
560	1320PP8{10}E	81° 58' 19.362" E	19° 1' 40.085" N	PANDRIPANI
561	1320PP8{20}E	81° 58' 19.158" E	19° 1' 39.812" N	
562	1343PP1{20}S	81° 58' 37.375" E	19° 1' 28.449" N	
563	1343PP1{10}S	81° 58' 37.512" E	19° 1' 28.744" N	
564	1343PP2{10}E	81° 58' 38.813" E	19° 1' 28.284" N	
565	1343PP2{20}E	81° 58' 38.683" E	19° 1' 27.983" N	
566	1360PP1(20)S	81° 59' 5.885" E	19° 1' 28.698" N	
567	1360PP1(10)S	81° 59' 5.713" E	19° 1' 28.982" N	
568	1360PP2(20)E	81° 59' 8.333" E	19° 1' 29.794" N	
569	1360PP2(10)E	81° 59' 8.204" E	19° 1' 30.105" N	
570	1337PP1(10)S	81° 59' 9.454" E	19° 1' 30.645" N	
571	1337PP1(20)S	81° 59' 9.574" E	19° 1' 30.336" N	
572	1337PP2(20)R	81° 59' 10.754" E	19° 1' 30.851" N	
573	1337PP2(10)R	81° 59' 10.665" E	19° 1' 31.165" N	
574	1337PP3(10)E	81° 59' 11.223" E	19° 1' 31.386" N	
575	1337PP3(20)E	81° 59' 11.291" E	19° 1' 31.057" N	
576	636NI1(20)S	82° 1' 9.073" E	19° 2' 6.939" N	
577	636NI1(10)S	82° 1' 9.092" E	19° 2' 7.268" N	NIYANAR
578	636NI2(10)E	82° 1' 10.441" E	19° 2' 7.038" N	
579	636NI2(20)E	82° 1' 10.401" E	19° 2' 6.707" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
580	740NI1(10)S	82° 1' 16.622" E	19° 2' 7.267" N	
581	740NI1(20)S	82° 1' 16.806" E	19° 2' 6.979" N	
582	740NI2(10)E	82° 1' 17.994" E	19° 2' 7.649" N	
583	740NI2(20)E	82° 1' 18.178" E	19° 2' 7.368" N	
584	744NI1(20)S	82° 1' 23.202" E	19° 2' 10.704" N	
585	744NI1(10)S	82° 1' 23.002" E	19° 2' 10.974" N	
586	744NI2(20)E	82° 1' 24.180" E	19° 2' 11.455" N	
587	744NI2(10)E	82° 1' 23.971" E	19° 2' 11.720" N	
588	415NI1(20)S	82° 1' 34.179" E	19° 2' 24.759" N	
589	415NI1(10)S	82° 1' 33.878" E	19° 2' 24.917" N	
590	415NI2(20)E	82° 1' 36.569" E	19° 2' 26.923" N	
591	415NI2(10)E	82° 1' 36.281" E	19° 2' 27.065" N	
592	416NI1(20)S	82° 1' 37.166" E	19° 2' 27.434" N	
593	416NI1(10)S	82° 1' 36.852" E	19° 2' 27.571" N	
594	416NI2(10)E	82° 1' 37.572" E	19° 2' 28.241" N	
595	416NI2(20)E	82° 1' 37.865" E	19° 2' 28.082" N	
596	424NI1(20)S	82° 1' 38.397" E	19° 2' 28.576" N	
597	424NI1(10)S	82° 1' 38.081" E	19° 2' 28.711" N	
598	424NI2(20)R	82° 1' 39.386" E	19° 2' 29.568" N	
599	424NI2(10)R	82° 1' 39.070" E	19° 2' 29.757" N	
600	424NI3(20)E	82° 1' 40.444" E	19° 2' 30.454" N	NIYANAR
601	424NI3(10)E	82° 1' 40.132" E	19° 2' 30.586" N	
602	437NI1(20)S	82° 1' 52.623" E	19° 2' 42.035" N	
603	437NI1(10)S	82° 1' 52.373" E	19° 2' 42.256" N	
604	437NI1(20)R	82° 1' 53.783" E	19° 2' 42.994" N	
605	437NI2(10)R	82° 1' 53.493" E	19° 2' 43.170" N	
606	437NI3(20)E	82° 1' 54.278" E	19° 2' 43.512" N	
607	437NI3(10)E	82° 1' 54.017" E	19° 2' 43.728" N	
608	231NI1(20)S	82° 2' 2.431" E	19° 2' 46.138" N	
609	231NI1(10)S	82° 2' 2.362" E	19° 2' 46.461" N	
610	231NI1(20)E	82° 2' 4.990" E	19° 2' 45.961" N	
611	231NI2(10)E	82° 2' 5.099" E	19° 2' 46.273" N	
612	228NI1(20)S	82° 2' 7.490" E	19° 2' 45.586" N	
613	228NI1(10)S	82° 2' 7.479" E	19° 2' 45.928" N	
614	228NI1(20)S	82° 2' 7.427" E	19° 2' 45.601" N	
615	228NI2(20)E	82° 2' 9.625" E	19° 2' 45.331" N	
616	221NI1(20)S	82° 2' 9.627" E	19° 2' 45.332" N	
617	228NI2(10)S	82° 2' 9.655" E	19° 2' 45.656" N	
618	221NI1(10)S	82° 2' 9.654" E	19° 2' 45.658" N	
619	221NI2(20)E	82° 2' 10.818" E	19° 2' 45.194" N	
620	221NI2(10)E	82° 2' 10.943" E	19° 2' 45.499" N	
621	PF1813L1	82° 3' 48.438" E	19° 3' 1.697" N	BILORI
622	PF1813C1	82° 3' 48.495" E	19° 3' 1.212" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
623	PF1813R1	82° 3' 48.552" E	19° 3' 0.727" N	
624	PF1813L2	82° 3' 49.798" E	19° 3' 1.841" N	
625	PF1813C2	82° 3' 49.855" E	19° 3' 1.356" N	
626	PF1813R2	82° 3' 49.912" E	19° 3' 0.871" N	
627	PF1813L3	82° 3' 51.158" E	19° 3' 1.986" N	
628	PF1813C3	82° 3' 51.215" E	19° 3' 1.501" N	
629	PF1813R3	82° 3' 51.272" E	19° 3' 1.016" N	
630	PF1813L4	82° 3' 52.518" E	19° 3' 2.131" N	
631	PF1813C4	82° 3' 52.575" E	19° 3' 1.646" N	
632	PF1813R4	82° 3' 52.632" E	19° 3' 1.161" N	
633	PF1813L5	82° 3' 53.878" E	19° 3' 2.275" N	
634	PF1813C5	82° 3' 53.935" E	19° 3' 1.790" N	
635	PF1813R5	82° 3' 53.992" E	19° 3' 1.305" N	
636	PF1813L6	82° 3' 55.916" E	19° 3' 2.492" N	
637	PF1813C6	82° 3' 55.975" E	19° 3' 2.007" N	
638	PF1813R6	82° 3' 56.032" E	19° 3' 1.522" N	
639	PF1813L7	82° 3' 57.124" E	19° 3' 2.859" N	
640	PF1813C7	82° 3' 57.280" E	19° 3' 2.394" N	
641	PF1813R7	82° 3' 57.436" E	19° 3' 1.929" N	
642	PF1813L8	82° 3' 58.428" E	19° 3' 3.254" N	
643	PF1813C8	82° 3' 58.584" E	19° 3' 2.790" N	
644	PF1813R8	82° 3' 58.740" E	19° 3' 2.325" N	BILORI
645	PF1813L9	82° 3' 59.731" E	19° 3' 3.650" N	
646	PF1813C9	82° 3' 59.887" E	19° 3' 3.185" N	
647	PF1813R9	82° 4' 0.044" E	19° 3' 2.720" N	
648	PF1813L10	82° 4' 0.744" E	19° 3' 3.958" N	
649	PF1813C10	82° 4' 0.998" E	19° 3' 3.523" N	
650	PF1813R10	82° 4' 1.253" E	19° 3' 3.088" N	
651	PF1813L11	82° 4' 2.380" E	19° 3' 5.286" N	
652	PF1813C11	82° 4' 2.713" E	19° 3' 4.914" N	
653	PF1813R11	82° 4' 3.046" E	19° 3' 4.543" N	
654	PF1813L12	82° 4' 3.421" E	19° 3' 6.130" N	
655	PF1813C12	82° 4' 3.754" E	19° 3' 5.759" N	
656	PF1813R12	82° 4' 4.087" E	19° 3' 5.388" N	
657	PF1813L13	82° 4' 3.896" E	19° 3' 6.515" N	
658	PF1813C13	82° 4' 4.149" E	19° 3' 6.080" N	
659	PF1813R13	82° 4' 4.403" E	19° 3' 5.644" N	
660	PF1813L14	82° 4' 5.457" E	19° 3' 6.984" N	
661	PF1813C14	82° 4' 5.611" E	19° 3' 6.519" N	
662	PF1813R14	82° 4' 5.766" E	19° 3' 6.054" N	
663	PF1813L15	82° 4' 6.761" E	19° 3' 7.376" N	
664	PF1813C15	82° 4' 6.916" E	19° 3' 6.911" N	
665	PF1813R15	82° 4' 7.071" E	19° 3' 6.446" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
666	PF1813L16	82° 4' 8.066" E	19° 3' 7.768" N	
667	PF1813C16	82° 4' 8.221" E	19° 3' 7.303" N	
668	PF1813R16	82° 4' 8.375" E	19° 3' 6.838" N	
669	PF1813L17	82° 4' 9.371" E	19° 3' 8.160" N	
670	PF1813C17	82° 4' 9.526" E	19° 3' 7.695" N	
671	PF1813R17	82° 4' 9.680" E	19° 3' 7.230" N	
672	PF1813L18	82° 4' 10.676" E	19° 3' 8.552" N	
673	PF1813C18	82° 4' 10.831" E	19° 3' 8.087" N	
674	PF1813R18	82° 4' 10.985" E	19° 3' 7.622" N	
675	PF1813L19	82° 4' 11.981" E	19° 3' 8.944" N	
676	PF1813C19	82° 4' 12.135" E	19° 3' 8.479" N	
677	PF1813R19	82° 4' 12.290" E	19° 3' 8.014" N	
678	PF1813L20	82° 4' 13.286" E	19° 3' 9.336" N	
679	PF1813C20	82° 4' 13.440" E	19° 3' 8.871" N	
680	PF1813R20	82° 4' 13.595" E	19° 3' 8.406" N	
681	PF1813L21	82° 4' 14.742" E	19° 3' 9.774" N	
682	PF1813C21	82° 4' 14.789" E	19° 3' 9.276" N	
683	PF1813R21	82° 4' 14.836" E	19° 3' 8.779" N	
684	PF1813L22	82° 4' 16.166" E	19° 3' 9.600" N	
685	PF1813C22	82° 4' 16.100" E	19° 3' 9.116" N	
686	PF1813R22	82° 4' 16.035" E	19° 3' 8.632" N	
687	PF1813L23	82° 4' 17.523" E	19° 3' 9.434" N	BILORI
688	PF1813C23	82° 4' 17.458" E	19° 3' 8.950" N	
689	PF1813R23	82° 4' 17.392" E	19° 3' 8.466" N	
690	PF1813L24	82° 4' 18.880" E	19° 3' 9.268" N	
691	PF1813C24	82° 4' 18.815" E	19° 3' 8.784" N	
692	PF1813R24	82° 4' 18.749" E	19° 3' 8.300" N	
693	PF1813L25	82° 4' 20.237" E	19° 3' 9.102" N	
694	PF1813C25	82° 4' 20.172" E	19° 3' 8.618" N	
695	PF1813R25	82° 4' 20.107" E	19° 3' 8.134" N	
696	PF1813L26	82° 4' 21.595" E	19° 3' 8.935" N	
697	PF1813C26	82° 4' 21.529" E	19° 3' 8.452" N	
698	PF1813R26	82° 4' 21.464" E	19° 3' 7.968" N	
699	PF1813L27	82° 4' 22.952" E	19° 3' 8.769" N	
700	PF1813C27	82° 4' 22.886" E	19° 3' 8.285" N	
701	PF1813R28	82° 4' 22.821" E	19° 3' 7.801" N	
702	PF1813L28	82° 4' 24.309" E	19° 3' 8.603" N	
703	PF1813C28	82° 4' 24.244" E	19° 3' 8.119" N	
704	PF1813R28	82° 4' 24.178" E	19° 3' 7.635" N	
705	PF1813L29	82° 4' 25.666" E	19° 3' 8.437" N	
706	PF1813C29	82° 4' 25.601" E	19° 3' 7.953" N	
707	PF1813R29	82° 4' 25.535" E	19° 3' 7.469" N	
708	PF1813L30	82° 4' 27.023" E	19° 3' 8.271" N	

S.No	Pillar ID	LONGITUDE	LATTITUDE	VILLAGE NAME
709	PF1813C30	82° 4' 26.958" E	19° 3' 7.787" N	
710	PF1813R30	82° 4' 26.892" E	19° 3' 7.303" N	
711	PF1813L31	82° 4' 28.826" E	19° 3' 8.051" N	
712	PF1813C31	82° 4' 28.873" E	19° 3' 7.553" N	
713	PF1813R31	82° 4' 28.919" E	19° 3' 7.055" N	
714	PF1813L32	82° 4' 29.488" E	19° 3' 8.248" N	
715	PF1813C32	82° 4' 29.642" E	19° 3' 7.783" N	
716	PF1813R32	82° 4' 29.796" E	19° 3' 7.317" N	
717	PF1813L33	82° 4' 30.794" E	19° 3' 8.638" N	
718	PF1813C33	82° 4' 30.947" E	19° 3' 8.173" N	
719	PF1813R33	82° 4' 31.101" E	19° 3' 7.707" N	
720	PF1813L34	82° 4' 32.099" E	19° 3' 9.028" N	
721	PF1813C34	82° 4' 32.253" E	19° 3' 8.563" N	
722	PF1813R34	82° 4' 32.407" E	19° 3' 8.097" N	BILORI
723	PF1813L35	82° 4' 33.404" E	19° 3' 9.418" N	
724	PF1813C35	82° 4' 33.558" E	19° 3' 8.953" N	
725	PF1813R35	82° 4' 33.712" E	19° 3' 8.487" N	
726	PF1813L36	82° 4' 34.710" E	19° 3' 9.808" N	
727	PF1813C36	82° 4' 34.864" E	19° 3' 9.343" N	
728	PF1813R36	82° 4' 35.018" E	19° 3' 8.877" N	
729	PF1813L37	82° 4' 36.015" E	19° 3' 10.198" N	
730	PF1813C37	82° 4' 36.169" E	19° 3' 9.733" N	
731	PF1813R37	82° 4' 36.323" E	19° 3' 9.267" N	
732	PF1813L38	82° 4' 37.321" E	19° 3' 10.588" N	
733	PF1813C38	82° 4' 37.475" E	19° 3' 10.123" N	
734	PF1813R38	82° 4' 37.628" E	19° 3' 9.657" N	
735	1082CA1	82° 7' 45.775" E	19° 4' 58.447" N	
736	1082CA2	82° 7' 46.378" E	19° 4' 59.844" N	
737	1082CA3	82° 7' 47.363" E	19° 5' 0.330" N	
738	1082CA4	82° 7' 48.248" E	19° 4' 59.672" N	
739	1085CA1	82° 7' 48.391" E	19° 4' 59.738" N	
740	1085CA2	82° 7' 48.558" E	19° 5' 0.920" N	MADPAL
741	1085CA3	82° 7' 49.854" E	19° 5' 1.574" N	
742	1085CA4	82° 7' 52.146" E	19° 5' 2.070" N	
743	1085CA5	82° 7' 52.641" E	19° 5' 1.878" N	
744	1085CA6	82° 7' 52.450" E	19° 5' 1.135" N	
745	1085CA7	82° 7' 50.253" E	19° 5' 0.665" N	

4. SURVEY DATE

SURVEY DATE	SURVEY TIME
28/10/2015 TO 24/12/215	10AM - 5PM

Weather was nice with clear sun light. Survey pillar marking has been done before itself so it was easy to get the location point**.** Survey have been done by the survey team members Surendra, Sunil, Rakesh & Krishna. The team was leaded by Surendra.

Base Station Photographs

Survey Photographs With Staff

PILLAR PHOTOS :

BAGMUNDI :

BASTANAR :


1076CA2-1
1074CA4
1074CA3
1080CA-1
1080CA2
1080CA7
1080CA4
1080CA6
1080CA7E-1.2M


1080CA-8
1080CA-9
1079-CA-1AA
1079CA-2AA
1032CA2
1035CA3
1035CA4
1035CA1


1035 CA2

1032 CA3-BA

1032CA-4


1060CA1

1076CA2

IRPA :

JAMGAON :

KILEPAL (535/1) :

KILEPAL (315) :

KILEPAL (429) :

KILEPAL (1086/2) :

KODENAR :


1059CA6


1059CA5


1059CA7


1059CA8


954CA1


954CA2


954CA2


954CA3

TIRTHUM :


143CA-2 TM
143CA-1 TM
143CA5 TM
143CA-3
143CA4 TM
143CA-6 TM
143CA7 TM
143CA-8 TM

RAIKOT :


749CA1 RI
749CA2 RI
749CA5 RI
749CA4 RI
749CA-7 RI
749CA-6 RI
752CA3 RI
752CA2 RI
752CA1


752CA5R1
752CA4R1
745CA1R1
745CA10
745CA8
745CA-7
745CA6
745CA5
745CA-R1A

BY PASS PILLAR PHOTOS :


BP6NT10
BP6NT10
BP7NT10
BP7NT10
BP8NT10
BP9NT10
BP9NT10


BP-17-NI-19
BP-17-NE-20
BP-18-NE-20
BP-19-NE-20


BP-21-NF-20
BP-21-NF-20
BP-22-NF-20
BP-23-NF-20
BP-23-NF-20
BP-23-NF-20
BP-24-NF-20
BP-24-NF-20
BP-24-NF-20









DGPS SURVEY & REPORT PREPARED BY:

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- DATA ANALYSIS WORK