DGPS SURVEY REPORT

FOR

Compensatory Afforestation Land

RAIPUR FOREST DIVISION

NEW RAIPUR RANGE

AREA : 18 Ha.





PREPARED BY :

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To, DIVISIONAL FOREST OFFICER RAIPUR FOREST DIVISION

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1.INTRODUCTION TO DGPS

1.1 <u>Background</u>

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

2. 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 SAeliminate satellite and receiver clock errors.

3. improve accuracy significantly 100's of meters to meters to centimeters tomillimeters.

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

5. The base station compares its own known location, to that computed froma GPS receiver.

6. 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.

1.2 Examples :

1. Satellite Based Augmentation System (SBAS)

2. Wide Area Augmentation System (WAAS),

3. Local Area Augmentation System (LAAS),

4. European Geostationary Navigation Overlay Service (EGNOS),

5. Omni STAR

6. Coast guard beacon service.

1.3 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.

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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 labour saving is immense but at the same time, previously impossible tasks are made possible such as the prediction of earthquakes before they occur.

1.4 DGPS Summary

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

Differential GPS(DGPS) is a system in which differences between observed and computed co-ordinates ranges (known as differential corrections) at a particular known point are transmitted to users (GPS receivers at other points) to upgrade the accuracy of the users receivers position.

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2. 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.

The GPS signal is made up of 3 distinct components:

- 1. Carrier wave
- 2. GPS Code
- 3. Navigation message

RTK Summary

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- 1. Similar technique as DGPS that uses the carrier phase to provide more accurate positioning
- 2. Cost is higher compared to DGPS receivers
- 3. Produces accuracy from 20 cm to subcentimeters
- RTK corrections provided via a local base station or by a private correction provider - OmniSTAR, Leica, Trimble
- 5. Used for many different applications including machine control (construction, container ports, farming), vehicle testing applications, surveying (land, marine, hydrographic, aerial)

3.<u>RINEX FILE</u>

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 observable:

- The carrier-phase measurement at one or both carriers (actually being a measurement of 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 between 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 is 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 was presented at and accepted by the 5th International Geodetic Symposium on Satellite Positioning in Las Cruces, in 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

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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 observable. [Gurtner 2002]
- Version 2.11: Includes the definition of a twocharacter 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 space-based 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

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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 detailed flexible and definition of the more 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 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

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- Each file type consists of a header section and a data The header section 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 optimized for examples. The format has been minimum space requirements independent of 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 of data from more than one site subsequently occupied by a roving receiver in rapid static or kinematic applications. Although Version 2 and higher allow inserting 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 having to be

exchanged, it would not be economical to include identical satellite navigation messages collected by the several times. different receivers 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.

3.1 **BASIC DEFINITIONS:**

3.1.1 <u>TIME</u>

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.

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3.1.2 Pseudo-Range:

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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 pseudorange reflects the actual behavior of the receiver and satellite clocks. The pseudo-range is stored in units of meters.

3.1.3 <u>PHASE:</u>

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 observable 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 3quantities phase / pseudo-range / epoch must be maintained, i.e. the

receiver clock correction should be applied to all 3 observable:

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1. Time (corr) = Time(r) - dT®
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2. PR (corr) = PR (r) - $dT(r)^*c$

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

3.1.4 **DOPPLER:**

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

4. SATELLITE NUMBERS:

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

4.1 THE EXCHANGE OF RINEX FILE:

The original RINEX file naming convention was implemented in the MSDOS 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.

5. STUDY AREA:



5.1 DETAILS OF FOREST LAND:



<u>CO-ORDINATE LIST</u> <u>RAIPUR FOREST DIVISION</u> <u>NEW RAIPUR RANGE</u>

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SURVEY NO. 926

	GPS Point ID	Easting	Northing	Latitude	Longitude
	P-1	598299.2	2334466.5	21° 06' 31.1977" N	81° 56' 47.3521" E
	P-2	598320.08	2334464.7	21° 06' 31.1352" N	81° 56' 48.0754" E
	P-3	598394.88	2334459.51	21° 06' 30.9518" N	81° 56' 50.6668" E
	P-4	598418.52	2334458.01	21° 06' 30.8984" N	81° 56' 51.4860" E
	P-5	598474.88	2334453.64	21° 06' 30.7454" N	81° 56' 53.4385" E
	P-6	598538.21	2334448.76	21° 06' 30.5743" N	81° 56' 55.6323" E
	P-7	598600.85	2334444.47	21° 06' 30.4225" N	81° 56' 57.8027" E
	P-8	598654.23	2334440.75	21° 06' 30.2913" N	81° 56' 59.6517" E
	P-9	598702.36	2334438.71	21° 06' 30.2156" N	81° 57' 01.3198" E
	P-10	598732.19	2334431.11	21° 06' 29.9626" N	81° 57' 02.3521" E
	P-11	598763.57	2334427.67	21° 06' 29.8446" N	81° 57' 03.4387" E
-	P-12	598868.33	2334429.08	21° 06' 29.8703" N	81° 57' 07.0699" E
	P-13	599018.07	2334443.69	21° 06' 30.3163" N	81° 57' 12.2630" E
	P-14	599032.4	2334424.5	21° 06' 29.6892" N	81° 57' 12.7555" E
e	P-15	599062.24	2334413.18	21° 06' 29.3154" N	81° 57' 13.7875" E
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ge ann	P-17	599063.39	2334372.16	21° 06' 27.9810" N	81° 57' 13.8189" E
	P-18	599047.55	2334366.31	21° 06' 27.7936" N	81° 57' 13.2688" E
-	P-19 एम.वां.अरावन	599022.93	2334362.67	21° 06' 27.6802" N	81° 57' 12.4145" E
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P-24 598957.88 2334279.42 21° 06° 24.9853" N 81° 57' 10.1426" E P-25 598964.7 2334260.83 21° 06° 24.9793" N 81° 57' 10.252" E P-26 598962.36 2334284.91 21° 06° 24.9793" N 81° 57' 10.2127" E P-27 598931.2 2334253.54 21° 06° 24.3793" N 81° 57' 09.2127" E P-28 598891.74 2334260.3 21° 06° 24.3763" N 81° 57' 05.0337" E P-29 598832.88 2334260.3 21° 06° 24.3752" N 81° 57' 05.0337" E P-30 598810.55 2334266.61 21° 06° 24.5972" N 81° 57' 04.4010" E P-31 59870.87 2334263.77 21° 06° 24.5972" N 81° 57' 01.0926" E P-33 59870.87 2334263.97 21° 06° 24.5242" N 81° 57' 01.0926" E P-34 598697.03 2334235.22 21° 06° 24.5242" N 81° 57' 01.0926" E P-36 598620.63 2334191.92 21° 06° 22.9521" N 81° 57' 01.0926" E P-36 598620.63 2334191.92 21° 06' 21.8181" N 81° 56' 57.2127" E P-37	P-24 598957.88 2334279.42 21' 06' 24.9853'' N 81' 57' 10.1426" E P-25 598964.7 2334260.83 21' 06' 24.9953'' N 81' 57' 10.2917" E P-26 598962.36 233428.91 21' 06' 24.3953'' N 81' 57' 10.2917" E P-27 598931.2 2334253.54 21' 06' 24.3265'' N 81' 57' 0.0.2127" E P-28 598891.74 2334258.77 21' 06' 24.3265'' N 81' 57' 05.0055'' E P-30 598810.55 2334266.3 21' 06' 24.3878'' N 81' 57' 05.0055'' E P-31 598792.21 2334263.37 21' 06' 25.0725'' N 81' 57' 03.6629'' E P-33 598745.3 2334263.37 21' 06' 25.2909'' N 81' 57' 03.6629'' E P-34 598659.64 2334215.12 21' 06' 25.29521'' N 81' 57' 01.0926'' E P-35 598650.64 2334215.12 21' 06' 20.1334'' N 81' 56' 57.2127'' E P-36 598650.64 2334191.92 21' 06' 20.1334'' N 81' 56' 57.2127'' E P-37 598650.63 2334131.37 21' 06' 20.1334''N 81' 56' 57.2127'' E		P-22	598942.8	2334337.98	21° 06' 26.8926" N	81° 57' 09.6321" E	1
P-25 598964.7 2334260.83 21° 06′ 24.3793″ N 81° 57′ 10.3753″ E P-26 598962.36 2334248.91 21° 06′ 24.3793″ N 81° 57′ 10.2917″ E P-27 598931.2 2334253.54 21° 06′ 24.3793″ N 81° 57′ 10.2917″ E P-28 598891.74 2334250.3 21° 06′ 24.3763″ N 81° 57′ 09.2127″ E P-29 598832.68 2334260.3 21° 06′ 24.3763″ N 81° 57′ 05.3037″ E P-30 598810.55 2334266.61 21° 06′ 24.3763″ N 81° 57′ 05.0337″ E P-31 598770.87 2334281.11 21° 06′ 24.3763″ N 81° 57′ 03.6629″ E P-32 598770.87 2334263.97 21° 06′ 24.572″ N 81° 57′ 03.6629″ E P-33 598745.3 2334263.97 21° 06′ 24.5242″ N 81° 57′ 01.0926″ E P-34 598697.03 2334235.23 21° 06′ 21.8181″ N 81° 56′ 57.425″ E P-36 598620.63 2334191.92 21° 06′ 21.8181″ N 81° 56′ 57.452″ E P-37 598603.58 2334151.37 21° 06′ 21.8181″ N 81° 56′ 57.452″ E P-38	P-25 598964.7 2334260.83 21° 06' 24.3793" N 81° 57' 10.3753" E P-26 598962.36 2334248.91 21° 06' 24.3793" N 81° 57' 10.2917" E P-27 598931.2 2334253.54 21° 06' 24.3793" N 81° 57' 10.2917" E P-27 598931.2 2334253.54 21° 06' 24.3265" N 81° 57' 09.2127" E P-28 598891.74 2334253.77 21° 06' 24.3768" N 81° 57' 05.0365" E P-30 598810.55 2334266.61 21° 06' 24.3768" N 81° 57' 05.0337" E P-31 598792.21 2334287.7 21° 06' 25.0725" N 81° 57' 04.4010" E P-32 59870.87 2334263.97 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 22.5920" N 81° 57' 01.0926" E P-34 598659.64 2334215.12 21° 06' 21.8181" N 81° 56' 57.4527" E P-36 598603.58 2334179.92 21° 06' 21.8181" N 81° 56' 57.4527" E P-37 598663.58 2334179.92 21° 06' 21.8181" N 81° 56' 57.4571" E P-38		P-23	598934.2	2334312.87	21° 06' 26.0776" N	81° 57' 09.3288" E	
P-26 598962.36 2334248.91 21° 06′ 23.9919′ N 81° 57′ 10.2917″ E P-27 598931.2 2334253.54 21° 06′ 24.1488′ N 81° 57′ 09.2127″ E P-28 598891.74 2334258.77 21° 06′ 24.3265′ N 81° 57′ 07.8460″ E P-29 598832.88 2334260.3 21° 06′ 24.3878′ N 81° 57′ 05.0337″ E P-30 598810.55 2334266.61 21° 06′ 24.5972′ N 81° 57′ 03.662″ E P-31 598792.21 2334281.11 21° 06′ 25.2909′ N 81° 57′ 03.662″ E P-33 598770.87 2334283.77 21° 06′ 24.5242″ N 81° 57′ 03.662″ E P-33 598770.87 2334281.12 21° 06′ 24.5242″ N 81° 57′ 03.662″ E P-34 598697.03 233425.23 21° 06′ 24.5242″ N 81° 57′ 01.0926″ E P-34 598695.64 233415.12 21° 06′ 21.3993″ N 81° 56′ 57.4113″ E P-35 598603.58 233415.37 21° 06′ 21.3993″ N 81° 56′ 57.2329″ E P-36 598591.22 2334166.97 21° 06′ 13.34″ N 81° 56′ 57.5229″ E P-40	P-26 598962.36 2334248.91 21° 06° 23.9919" N 81° 57' 10.2917" E P-27 598931.2 2334253.54 21° 06' 24.1488" N 81° 57' 09.2127" E P-28 598891.74 2334253.77 21° 06' 24.3265" N 81° 57' 07.8460" E P-29 598832.88 2334260.3 21° 06' 24.3275" N 81° 57' 05.0337" E P-30 598810.55 2334266.61 21° 06' 24.5972" N 81° 57' 05.0337" E P-31 598792.21 2334281.11 21° 06' 25.5909" N 81° 57' 03.6629" E P-31 598770.87 2334263.97 21° 06' 24.5242" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 25.5909" N 81° 57' 03.06629" E P-34 598697.03 2334235.23 21° 06' 24.5242" N 81° 56' 57.4113" E P-35 598659.64 2334119.92 21° 06' 21.3893" N 81° 56' 57.4113" E P-37 598603.58 2334179.92 21° 06' 21.3993" N 81° 56' 57.51227" E P-40 598556.3 2334103.9 21° 06' 13.34" N 81° 56' 57.51232" E P-41		P-24	598957.88	2334279.42	21° 06' 24.9853" N	81° 57' 10.1426" E	1
P-27 598931.2 2334253.54 21° 06' 24.1488' N 81° 57' 09.2127" E P-28 598891.74 2334258.77 21° 06' 24.3265' N 81° 57' 07.8460" E P-29 598832.88 2334260.3 21° 06' 24.3878'' N 81° 57' 07.8460" E P-30 598810.55 2334266.61 21° 06' 24.3878'' N 81° 57' 03.0652" E P-31 598770.87 2334281.11 21° 06' 24.5972'' N 81° 57' 03.6629" E P-32 598770.87 2334263.97 21° 06' 24.5972'' N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 03.06629" E P-34 598697.03 2334235.23 21° 06' 24.5242" N 81° 57' 03.026" E P-34 598697.03 2334215.12 21° 06' 24.5242" N 81° 56' 57.4113" E P-35 598659.64 233419.192 21° 06' 24.5242" N 81° 56' 57.4113" E P-36 598620.63 2334179.92 21° 06' 24.5242" N 81° 56' 57.4113" E P-37 598603.58 2334179.92 21° 06' 24.529" N 81° 56' 57.2127" E P-38 <td>P-27 598931.2 2334253.54 21° 06° 24.1488" N 81° 57' 09.2127" E P-28 598891.74 2334253.77 21° 06' 24.3265" N 81° 57' 07.8460" E P-29 598832.88 2334260.3 21° 06' 24.3876" N 81° 57' 05.8065" E P-30 59870.87 2334266.61 21° 06' 24.3876" N 81° 57' 05.0337" E P-31 598792.21 2334281.11 21° 06' 25.5972" N 81° 57' 05.0337" E P-32 598770.87 2334281.77 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 233425.23 21° 06' 25.2909" N 81° 57' 01.0926" E P-34 598697.03 2334215.12 21° 06' 21.3589" N 81° 56' 57.8425" E P-35 598659.64 2334191.92 21° 06' 21.3818" N 81° 56' 57.2425" E P-36 598620.63 2334128.02 21° 06' 21.3933" N 81° 56' 57.2425" E P-37 598603.58 2334128.02 21° 06' 18.323" N 81° 56' 57.2329" E P-40</td> <td></td> <td>P-25</td> <td>598964.7</td> <td>2334260.83</td> <td>21° 06' 24.3793" N</td> <td>81° 57' 10.3753" E</td> <td></td>	P-27 598931.2 2334253.54 21° 06° 24.1488" N 81° 57' 09.2127" E P-28 598891.74 2334253.77 21° 06' 24.3265" N 81° 57' 07.8460" E P-29 598832.88 2334260.3 21° 06' 24.3876" N 81° 57' 05.8065" E P-30 59870.87 2334266.61 21° 06' 24.3876" N 81° 57' 05.0337" E P-31 598792.21 2334281.11 21° 06' 25.5972" N 81° 57' 05.0337" E P-32 598770.87 2334281.77 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 233425.23 21° 06' 25.2909" N 81° 57' 01.0926" E P-34 598697.03 2334215.12 21° 06' 21.3589" N 81° 56' 57.8425" E P-35 598659.64 2334191.92 21° 06' 21.3818" N 81° 56' 57.2425" E P-36 598620.63 2334128.02 21° 06' 21.3933" N 81° 56' 57.2425" E P-37 598603.58 2334128.02 21° 06' 18.323" N 81° 56' 57.2329" E P-40		P-25	598964.7	2334260.83	21° 06' 24.3793" N	81° 57' 10.3753" E	
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P-29 598832.88 2334260.3 21' 06' 24.3878" N 81' 57' 05.8065" E P-30 598810.55 2334266.61 21' 06' 24.3878" N 81' 57' 05.8065" E P-30 598702.21 2334266.61 21' 06' 24.3878" N 81' 57' 05.0337" E P-31 59870.87 2334281.11 21' 06' 24.5972" N 81' 57' 03.6629" E P-32 59870.87 2334283.77 21' 06' 24.5242" N 81' 57' 03.6629" E P-33 598745.3 2334263.97 21' 06' 24.5242" N 81' 57' 00.27716" E P-34 598697.03 2334235.23 21' 06' 22.050" N 81' 56' 57.01.0926" E P-35 598603.58 2334191.92 21' 06' 22.2050" N 81' 56' 57.8425" E P-36 598603.58 2334179.92 21' 06' 21.8181" N 81' 56' 57.2127" E P-37 598603.58 2334151.37 21' 06' 21.3993" N 81' 56' 57.2127" E P-38 598591.22 2334103.9 21' 06' 19.3471" N 81' 56' 57.5255" E P-40 598596.04 2334103.9 21' 06' 18.3233" N 81' 56' 57.5655" E P-41	P-29 598832.88 2334260.3 21° 06' 24.3878" N 81° 57' 05.8065" E P-30 598810.55 2334266.61 21° 06' 24.3878" N 81° 57' 05.0337" E P-31 598792.21 2334266.61 21° 06' 24.5972" N 81° 57' 03.6629" E P-31 598770.87 2334287.7 21° 06' 25.0725" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 03.6629" E P-34 598697.03 2334235.23 21° 06' 22.5050" N 81° 57' 00.0926" E P-34 598697.03 2334215.12 21° 06' 22.2050" N 81° 56' 57.8425" E P-35 598603.58 2334179.92 21° 06' 21.3893" N 81° 56' 57.413" E P-37 598603.58 2334151.37 21° 06' 21.3993" N 81° 56' 57.2127" E P-38 598591.22 2334103.9 21° 06' 21.3993" N 81° 56' 57.2127" E P-39 598585.58 2334103.9 21° 06' 18.3734" N 81° 56' 57.5255" E P-40 598596.04 2334003.9 21° 06' 18.3233" N 81° 56' 57.5655" E P-41		P-27	598931.2	2334253.54	21° 06' 24.1488" N	81° 57' 09.2127" E	
P-30 598810.55 2334266.61 21° 06' 24.5972" N 81° 57' 05.0337" E P-31 598792.21 2334281.11 21° 06' 25.0725" N 81° 57' 04.4010" E P-32 598770.87 2334287.7 21° 06' 25.2095" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 24.5242" N 81° 57' 01.0926" E P-34 598697.03 2334215.12 21° 06' 22.2050" N 81° 57' 01.0926" E P-35 598659.64 2334191.92 21° 06' 22.2050" N 81° 56' 57.8425" E P-36 598603.58 2334179.92 21° 06' 21.3993" N 81° 56' 57.2127" E P-37 598603.58 2334128.02 21° 06' 20.8929" N 81° 56' 57.2127" E P-39 598585.58 2334128.02 21° 06' 20.1334" N 81° 56' 57.2127" E P-40 598596.04 2334103.9 21° 06' 18.3233" N 81° 56' 57.2127" E P-41 598595.58 2334072.25 21° 06' 18.3233" N 81° 56' 57.5555" E P-42	P-30 598810.55 2334266.61 21° 06' 24.5972" N 81° 57' 05.0337" E P-31 598792.21 2334281.11 21° 06' 25.0725" N 81° 57' 04.4010" E P-32 598770.87 2334283.7 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 25.2909" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 25.2909" N 81° 57' 01.0926" E P-34 598697.03 2334235.23 21° 06' 22.29521" N 81° 57' 01.0926" E P-35 598659.64 2334179.92 21° 06' 22.2050" N 81° 56' 58.4357" E P-36 598600.63 2334179.92 21° 06' 21.3933" N 81° 56' 57.2127" E P-37 598603.58 2334179.92 21° 06' 20.392" N 81° 56' 57.2127" E P-38 598591.22 2334166.97 21° 06' 20.1334" N 81° 56' 57.2127" E P-39 598586.3 2334128.02 21° 06' 20.1334" N 81° 56' 57.2127" E P-40 598596.04 2334103.9 21° 06' 18.3233" N 81° 56' 57.55655" E P-41		P-28	598891.74	2334258.77	21° 06' 24.3265" N	81° 57' 07.8460" E	
P-31 598792.21 2334281.11 21° 06' 25.0725" N 81° 57' 04.4010" E P-32 598770.87 2334287.7 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334287.7 21° 06' 25.2909" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 23.5989" N 81° 57' 01.0926" E P-35 598659.64 2334215.12 21° 06' 22.9521" N 81° 56' 57.8425" E P-36 598603.58 2334179.92 21° 06' 21.8181" N 81° 56' 57.8425" E P-37 598603.58 2334179.92 21° 06' 21.3993" N 81° 56' 57.2329" E P-38 598591.22 2334166.97 21° 06' 20.1334" N 81° 56' 57.2329" E P-39 598586.3 2334128.02 21° 06' 19.3471" N 81° 56' 57.2329" E P-40 598586.3 2334072.25 21° 06' 18.3233" N 81° 56' 56.5540" E P-41 598593.02 2334072.25 21° 06' 18.3233" N 81° 56' 55.2295" E P-42 598587.05 2334072.25 21° 06' 18.3233" N 81° 56' 56.5540" E P-43	P-31 598792.21 2334281.11 21° 06' 25.0725" N 81° 57' 04.4010" E P-32 598770.87 2334287.7 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 25.2909" N 81° 57' 01.0926" E P-34 598697.03 2334235.23 21° 06' 23.5989" N 81° 57' 01.0926" E P-34 598697.03 2334215.12 21° 06' 22.9521" N 81° 56' 57.9927" E P-35 598659.64 2334191.92 21° 06' 21.3989" N 81° 56' 57.8425" E P-36 598603.58 2334179.92 21° 06' 21.3993" N 81° 56' 57.4113" E P-38 598591.22 2334166.97 21° 06' 20.1334" N 81° 56' 57.2329" E P-40 598586.3 2334128.02 21° 06' 19.3471" N 81° 56' 57.2329" E P-41 598596.04 2334072.25 21° 06' 18.7593" N 81° 56' 55.5655" E P-42 598593.02 2334072.25 21° 06' 18.3233" N 81° 56' 55.5565" E P-43 598567.05 2334072.25 21° 06' 18.3233" N 81° 56' 55.5560" E P-44		P-29	598832.88	2334260.3	21° 06' 24.3878" N	81° 57' 05.8065" E	
P-32 598770.87 2334287.7 21° 06′ 25.2909″ N 81° 57′ 03.6629″ E P-33 598745.3 2334263.97 21° 06′ 24.5242″ N 81° 57′ 02.7716″ E P-34 598697.03 2334235.23 21° 06′ 23.5989″ N 81° 57′ 01.0926″ E P-34 598697.03 2334235.23 21° 06′ 23.5989″ N 81° 57′ 01.0926″ E P-35 598659.64 2334215.12 21° 06′ 22.2050″ N 81° 56′ 57.8425″ E P-36 598603.58 2334179.92 21° 06′ 21.3993″ N 81° 56′ 57.8425″ E P-37 598603.58 2334179.92 21° 06′ 21.3993″ N 81° 56′ 57.2127″ E P-38 598591.22 2334166.97 21° 06′ 20.3929″ N 81° 56′ 57.2329″ E P-40 598586.3 2334128.02 21° 06′ 19.3471″ N 81° 56′ 57.2329″ E P-41 598596.04 2334072.25 21° 06′ 18.3233″ N 81° 56′ 55.2655″ E P-42 598593.02 2334072.25 21° 06′ 18.3233″ N 81° 56′ 55.540″ E P-42 5985951.58 2334075.93 21° 06′ 18.3233″ N 81° 56′ 55.540″ E P-44	P-32 598770.87 2334287.7 21° 06' 25.2909" N 81° 57' 03.6629" E P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 23.5989" N 81° 57' 01.0926" E P-34 598697.03 2334235.23 21° 06' 22.5251" N 81° 57' 01.0926" E P-35 598659.64 2334215.12 21° 06' 22.2551" N 81° 56' 59.8927" E P-36 598620.63 2334191.92 21° 06' 21.3993" N 81° 56' 57.8425" E P-37 598603.58 2334179.92 21° 06' 21.3993" N 81° 56' 57.4113" E P-39 598585.58 2334151.37 21° 06' 20.1334" N 81° 56' 57.2329" E P-40 598586.3 2334103.9 21° 06' 19.3471" N 81° 56' 57.2329" E P-41 598593.02 2334085.81 21° 06' 18.3233" N 81° 56' 55.2329" E P-42 598593.02 2334072.25 21° 06' 18.3233" N 81° 56' 55.540" E P-43 598551.58 2334072.25 21° 06' 18.4461" N 81° 56' 55.205" E P-44		P-30	598810.55	2334266.61	21° 06' 24.5972" N	81° 57' 05.0337" E	
P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 23.5989" N 81° 56' 59.7927" E P-35 598659.64 2334215.12 21° 06' 22.9521" N 81° 56' 59.7927" E P-36 598603.58 2334179.92 21° 06' 22.9521" N 81° 56' 58.4357" E P-37 598603.58 2334179.92 21° 06' 21.8181" N 81° 56' 57.8425" E P-37 598603.58 2334179.92 21° 06' 21.3993" N 81° 56' 57.4113" E P-39 598591.22 2334166.97 21° 06' 20.8929" N 81° 56' 57.2329" E P-40 598586.3 2334128.02 21° 06' 19.3471" N 81° 56' 57.2329" E P-41 598593.02 2334085.81 21° 06' 18.7593" N 81° 56' 56.5540" E P-42 598593.02 2334075.93 21° 06' 18.3233" N 81° 56' 55.2295" E P-44 598551.58 2334075.93 21° 06' 18.9334" N 81° 56' 55.2295" E P-45 598528.72 2334090.78 21° 06' 18.6356" N 81° 56' 51.6376" E P-46 <td>P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 23.5989" N 81° 57' 01.0926" E P-35 598659.64 2334215.12 21° 06' 22.9521" N 81° 56' 59.7927" E P-36 598603.58 2334191.92 21° 06' 22.050" N 81° 56' 58.4357" E P-37 598603.58 2334179.92 21° 06' 21.8181" N 81° 56' 57.8425" E P-38 598591.22 2334166.97 21° 06' 21.3993" N 81° 56' 57.4113" E P-39 598585.58 2334128.02 21° 06' 20.3929" N 81° 56' 57.2329" E P-40 598593.02 2334085.81 21° 06' 18.3733" N 81° 56' 57.4571" E P-41 598593.02 2334072.25 21° 06' 18.3233" N 81° 56' 55.2295" E P-42 598593.02 2334075.93 21° 06' 18.3233" N 81° 56' 55.2295" E P-44 598551.58 2334075.93 21° 06' 18.3334" N 81° 56' 55.2295" E P-45 598528.72 2334090.78 21° 06' 18.9334" N 81° 56' 55.2295" E P-46</td> <td></td> <td>P-31</td> <td>598792.21</td> <td>2334281.11</td> <td>21° 06' 25.0725" N</td> <td>81° 57' 04.4010" E</td> <td></td>	P-33 598745.3 2334263.97 21° 06' 24.5242" N 81° 57' 02.7716" E P-34 598697.03 2334235.23 21° 06' 23.5989" N 81° 57' 01.0926" E P-35 598659.64 2334215.12 21° 06' 22.9521" N 81° 56' 59.7927" E P-36 598603.58 2334191.92 21° 06' 22.050" N 81° 56' 58.4357" E P-37 598603.58 2334179.92 21° 06' 21.8181" N 81° 56' 57.8425" E P-38 598591.22 2334166.97 21° 06' 21.3993" N 81° 56' 57.4113" E P-39 598585.58 2334128.02 21° 06' 20.3929" N 81° 56' 57.2329" E P-40 598593.02 2334085.81 21° 06' 18.3733" N 81° 56' 57.4571" E P-41 598593.02 2334072.25 21° 06' 18.3233" N 81° 56' 55.2295" E P-42 598593.02 2334075.93 21° 06' 18.3233" N 81° 56' 55.2295" E P-44 598551.58 2334075.93 21° 06' 18.3334" N 81° 56' 55.2295" E P-45 598528.72 2334090.78 21° 06' 18.9334" N 81° 56' 55.2295" E P-46		P-31	598792.21	2334281.11	21° 06' 25.0725" N	81° 57' 04.4010" E	
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P-42 598593.02 2334085.81 21° 06' 18.7593" N 81° 56' 57.4571" E Image: Партий, P-43 598567.05 2334072.25 21° 06' 18.3233" N 81° 56' 56.5540" E Image: Im	P-42 598593.02 2334085.81 21° 06' 18.7593" N 81° 56' 57.4571" E Indextra p-43 598567.05 2334072.25 21° 06' 18.3233" N 81° 56' 56.5540" E P-44 598551.58 2334075.93 21° 06' 18.4461" N 81° 56' 56.0187" E P-44 598551.58 2334075.93 21° 06' 18.4461" N 81° 56' 56.0187" E P-45 598528.72 2334090.78 21° 06' 18.6356" N 81° 56' 55.2295" E P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E M.V. ARVIND HEI U the URE ASE ASE ASE ASE ASE ASE ASE ASE ASE AS		P-40	598586.3	2334128.02	21° 06' 20.1334" N	81° 56' 57.2329" E	
बन पण्डल विकारी, P-43 598567.05 2334072.25 21° 06' 18.3233" N 81° 56' 56.5540" E ९ामपुर वनम डल. राग्रपूर P-44 598551.58 2334075.93 21° 06' 18.4461" N 81° 56' 56.0187" E P-45 598528.72 2334090.78 21° 06' 18.9334" N 81° 56' 55.2295" E P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E M.V. ARVIND M.V. ARVIND सहायक परिक्षेत्र आधिकारी वन परिक्षेत्र आधिकारी संयुद्ध वन मंडल वन परिक्षेत्र आधिकारी संयुद्ध वन मंडल 18 P a g ह्रेप महाप्रबंधक (निर्माण) सहायक परिक्षेत्र आधिकारी संयुद्ध वन मंडल वन परिक्षेत्र आधिकारी संयुद्ध वन मंडल अधिकार पुर एछ ग अधिकार पुर एछ ग	बन घण्डल खिकारी, P-43 598567.05 2334072.25 21° 06' 18.3233" N 81° 56' 56.5540" E ITUGT वनम इस. राग्रापर P-44 598551.58 2334075.93 21° 06' 18.4461" N 81° 56' 56.0187" E P-45 598528.72 2334090.78 21° 06' 18.9334" N 81° 56' 55.2295" E P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E M.V. ARVIND 18 P a g ह्र्ण महाप्रबंधक (निर्माण) Deputy General Manager (Construction) गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.)	-	P-41	598596.04	2334103.9	21° 06' 19.3471" N	81° 56' 57.5655" E	
राषपुर वनम इस. रायप्र 3 335507.03 2334072.23 21°06 18.3233 N 81°36 36.3340 E P-44 598551.58 2334075.93 21°06'18.4461" N 81°56'56.0187" E P-45 598528.72 2334090.78 21°06'18.9334" N 81°56'55.2295" E P-46 598453.66 2334081.18 21°06'18.6356" N 81°56'52.6259" E P-47 598425.07 2334092.54 21°06'19.0106" N 81°56'51.6376" E M.V. ARVIND M.V. ARVIND 481°40 परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी, संहायक परिक्षे अध्र संहायक परिक्षेत्र अध्र संहायक परिक्षेत्र अध्र संहायक परिक्षेत्र अध्र संहायक परिक्षेत्र अध्र संहायक परिक्षे अध्र संहायक परिक्षेत्र अध्र संहायक परिक्षे अध्र संहायक संहा के कि क्षे के कि कि क्षे के कि क्षे के कि कि क्षे के कि क्षे के कि क्षे के कि कि क्षे के कि क्षे के	राषपुर वनम इ.स. राग्रेपर 3 558507.05 2554072.25 21°06'18.3253 N 81°56'56.0187" E P-44 598551.58 2334075.93 21°06'18.4461" N 81°56'56.0187" E P-45 598528.72 2334090.78 21°06'18.9334" N 81°56'55.2295" E P-46 598453.66 2334081.18 21°06'18.6356" N 81°56'52.6259" E P-47 598425.07 2334092.54 21°06'19.0106" N 81°56'51.6376" E M.V. ARVIND HEIUTOUR& SEEDUR HEIUTOUR& SEEDUR 81°56'51.6376" E M.V. ARVIND HEIUTOUR& SEEDUR 98453.66 2334092.54 21°06'19.0106" N 81°56'51.6376" E M.V. ARVIND HEIUTOUR& SEEDUR 98425.07 2334092.54 21°06'19.0106" N 81°56'51.6376" E M.V. ARVIND HEIUTOUR& SEEDUR HEIUTOUR& SEEDUR 98425.07 2334092.54 21°06'19.0106" N 81°56'51.6376" E M.V. ARVIND HEIUTOUR& SEEDUR HEIUTOUR& SEEDUR 98425.07 2334092.54 21°06'19.0106" N 81°56'51.6376" E Deputy General Manager (Construction) HEIUTOUR 98674 987475.00000000000000000000000000000000000	e		598593.02	2334085.81	21° 06' 18.7593" N	81° 56' 57.4571" E	
P-44 598551.58 2334075.93 21° 06' 18.4461" N 81° 56' 56.0187" E P-45 598528.72 2334090.78 21° 06' 18.9334" N 81° 56' 55.2295" E P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E V.V. ARVIND M.V. ARVIND सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी सबुतत वन मंडल M.V. ARVIND सहायक परिक्षेत्र अधिकारी अधिकारी सबुतत वन मंडल M.V. General Manager (Construction) आरंग अटल नगर, रायपुर उपवनर अटल नगर, रायपुर (छ.ग.) आरंग अटल नगर, रायपुर उपवनर	P-44 598551.58 2334075.93 21° 06' 18.4461" N 81° 56' 56.0187" E P-45 598528.72 2334090.78 21° 06' 18.9334" N 81° 56' 55.2295" E P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E M.V. ARVIND M.V. ARVIND 481° 4817 3480011 F 91° 47° 4817 3480011 F 91° 47° 4817 3480011 F 18 P a g छप महाप्रबंधक (निर्माण) Deputy General Manager (Construction) 81° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	वन मण्डला शायपर वनमंड	विकारा, P-43 इल. राग्यपर	598567.05	2334072.25	21° 06' 18.3233" N	81° 56' 56.5540" E	
P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E V.ч. ar. अरावेनच M.V. ARVIND 48 P a g छप महाप्रबंधक (निर्माण) 48 P a g छप महाप्रबंधक (निर्माण) 48 Row utter and	P-46 598453.66 2334081.18 21° 06' 18.6356" N 81° 56' 52.6259" E P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E V. ARVIND M.V. ARVIND सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी संयुक्त वन मंडल 18 P a g छप महाप्रबंधक (निर्माण) सहायक परिक्षेत्र अधिकारी संयुक्त वन मंडल Deputy General Manager (Construction) आरंग अटल नगर, रायपुर रायपुर उपवन्ध	11431 4.1.1	P-44	598551.58	2334075.93	21° 06' 18.4461" N	81° 56' 56.0187" E	
P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E एम.वा.अरावनद M.V. ARVIND सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी संयुक्त वन मंडल वन परिक्षेत्र अधिकारी संयुक्त वन मंडल 18 P a g छप महाप्रबंधक (निर्माण) सहायक परिक्षेत्र अधिकारी अप्र प्रयुद्ध रायपुर उपवन वन परिक्षेत्र अधिकारी संयुक्त वन मंडल 0 pouty General Manager (Construction) सहायक परिक्षेत्र अधिकारी संयुक्त वन मंडल	P-47 598425.07 2334092.54 21° 06' 19.0106" N 81° 56' 51.6376" E एम.वा.अरावनद M.V. ARVIND सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी संयुक्त वन मंडल 18 P a g छ्प महाप्रबंधक (निर्माण) सहायक परिक्षेत्र अधिकारी संयुक्त वन मंडल 0 (इंडिया) लिमिटेड, रायपुर (छ.ग.) सहायक परिक्षेत्र अधिकारी संयुक्त वन मंडल		P-45	598528.72	2334090.78	21° 06' 18.9334" N	81° 56' 55.2295" E	
एम.वा.अरावेन्द M.V. ARVIND 18 P a g छ्रेप महाप्रबंधक (निर्माण) Deputy General Manager (Construction) गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.) सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी संयुक्त वन मंडल आरंग माणण प्रि	एम.वा.अरावेन्द M.V. ARVIND 18 P a g छ्पं महाप्रबंधक (निर्माण) Deputy General Manager (Construction) गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.) सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी संयुक्त वन मंडल आरंग अटल नगर, रायपुर रायपुर रायपुर ज्याण प्रिय	-	P-46	598453.66	2334081.18	21° 06' 18.6356" N	81° 56' 52.6259" E	
M.V. ARVIND 18 P a g छ्पं महाप्रबंधक (निर्माण) Deputy General Manager (Construction) गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.) HEI यक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी संयुक्त वन मंडल आरंग अटल नगर, रायपुर रायपुर ज्यवन्य नगणण प्रिय	M.V. ARVIND 18 P a g छूप महाप्रबंधक (निर्माण) Deputy General Manager (Construction) गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.) H.V. ARVIND सहायक परिक्षेत्र अधिकारी वन परिक्षेत्र अधिकारी आरंग अटल नगर, रायपुर रायपुर उपवन्य जन्माण (घर	-			2334092.54	21° 06' 19.0106" N	81° 56' 51.6376" E	
गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.)	गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.)	L	M.V. ARVIN		3			
गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.)	गेल (इंडिया) लिमिटेड, रायपुर (छ.ग.)	18 P a g छपं महाप्रबंधक (निर्माण) सहायक परिक्षेत्र आधकारा जन परिक्षेत्र अहि					त्र अधिकारी महतत वन मं	डल
गरा (इंडिया) लिमिटड, रायपुर (छ.ग.)	गरा (इंडिया) लिमिटड, रायपुर (छ.ग.)	Deputy (Deputy General Manager (Construction)					
A PRIME A DEPENDENT OF A PRIME PARTY OF	Colic (Inula) Ltd. Kalpur						रागार (TI

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P-48	598408.48	2334098.24	21° 06' 19.1992" N	81° 56' 51.0637" E
P-49	598390.09	2334106.31	21° 06' 19.4654" N	81° 56' 50.4281" E
P-50	598385.96	2334111.06	21° 06' 19.6208" N	81° 56' 50.2858" E
P-51	598384.98	2334128.01	21° 06' 20.1720" N	81° 56' 50.2553" E
P-52	598378.94	2334137.73	21° 06' 20.4894" N	81° 56' 50.0478" E
P-53	598375.54	2334151.63	21° 06' 20.9420" N	81° 56' 49.9331" E
P-54	598352.9	2334163.24	21° 06' 21.3242" N	81° 56' 49.1509" E
P-55	598325.9	2334171.03	21° 06' 21.5826" N	81° 56' 48.2166" E
P-56	598294.99	2334167.04	21° 06' 21.4588" N	81° 56' 47.1443" E
P-57	598272.31	2334158.51	21° 06' 21.1860" N	81° 56' 46.3567" E
P-58	598273.21	2334211.76	21° 06' 22.9176" N	81° 56' 46.3987" E
P-59	598277.99	2334274.76	21° 06' 24.9657" N	81° 56' 46.5773" E
P-60	598287.54	2334358.37	21° 06' 27.6830" N	81° 56' 46.9256" E
P-61	598294.75	2334422.42	21° 06' 29.7648" N	81° 56' 47.1886" E

एम.वा.अरावेन्द M.V. ARVIND **उप महाप्रबंधक (निर्माण)** Deputy General Manager (Construction) गेल (इंडिया) लिमिटेड,रावपुर (छ.ग.) GAIL (India) Ltd. Raipur

सहायकपरिक्षेत्रअधिकारी आरंग

वन परिक्षेत्र अधिकारी अटल नगर, रायपुर

वन पण्डलाधिकारी, शावपुर वन्यांकच नामक

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संखुवता वन मंडलाधिकारी रायपुर उपवनमंडल शयपुर (छ.ग.)

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