



NMDC-CMDC Limited(NCL)



DGPS Survey report of Mining lease Forest Area & Outside Mining Lease Forest Area

Component	Area in Ha
Mining Lease (Notified Forest) - Excluded Tree Fern area	570.1
Outside Mining Lease (OML) - Notified Forest	100.074
Outside Mining Lease (OML) - Revenue Forest	12.095
Total Forest Area proposed for diversion (Notified + Revenue Forest)	682.269

(excluding Tree Fern Area 76.496 Ha)

of

"Bailadila Iron-Ore Deposit No-4" in Bacheli, Chhattisgarh



April 2023

Divisional Forest Officer
Banteewada Division
BANTEEWADA

DGPS SURVEY AND GIS MAPPING DONE BY:
Geotrax International Services
Raipur, Chhattisgarh.

प.च. नाईक
Chief Executive Officer
NMDC-CMDC Limited

Greens Valley City, Housing Board Colony,
Boriyakala Sejbahar, Raipur-492015 (C.G.)
Geotrax 2023

वन परिक्षेत्र अधिकारी
बचेली

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वन मण्डलाधिकारी
बल्लिवाड़ा (सा.)

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1. Introduction and Background

1.1 Background

The Deposit-4 Mining lease is proposed to be operated by a Joint Venture company of National Mineral Development Corporation Ltd. (NMDC) and Chhattisgarh Mineral Development Company Ltd. (CMDC).

NATIONAL MINERAL DEVELOPMENT CORPORATION Ltd. (NMDC), incorporated in 1958 as a Government of India fully owned public enterprise. NMDC is under the administrative control of the Ministry of Steel, Government of India.

The State's Chhattisgarh Mineral Development Corporation Ltd. (CMDC), singly or in joint venture, undertakes scientific exploration, commercial exploitation and viable trading of minerals in the Chhattisgarh.

The mining lease (ML) area proposed for diversion is around 570.10 Ha and the forest area outside mining lease (OML) area proposed for infrastructure and mineral processing facilities is approximately 118.27 Ha.

As per the latest guidelines from MoEF&CC (*File No.FC-11/162/2020-FC dated 23.08.2021*), the approach road/conveyor belt and other ancillary activities related to the mining shall be considered as part of the mining project and therefore the diversion of the forest area outside the mining lease (OML) shall be processed along with the forest diversion area of the mining lease (ML).

The DGPS survey of forest area proposed for mineral processing facilities outside the mining lease (OML) is presently carried out and submitted herewith.

1.2 Location of Coal Deposit

Iron Ore Deposit-4 Mountain range is located in Kirandul town, which is 40km from Dantewada, the district headquarters in the state of Chhattisgarh. The iron mine deposit is adjacent to the fully functional NMDC Iron ore mine "Deposit-5 and Deposit-10"

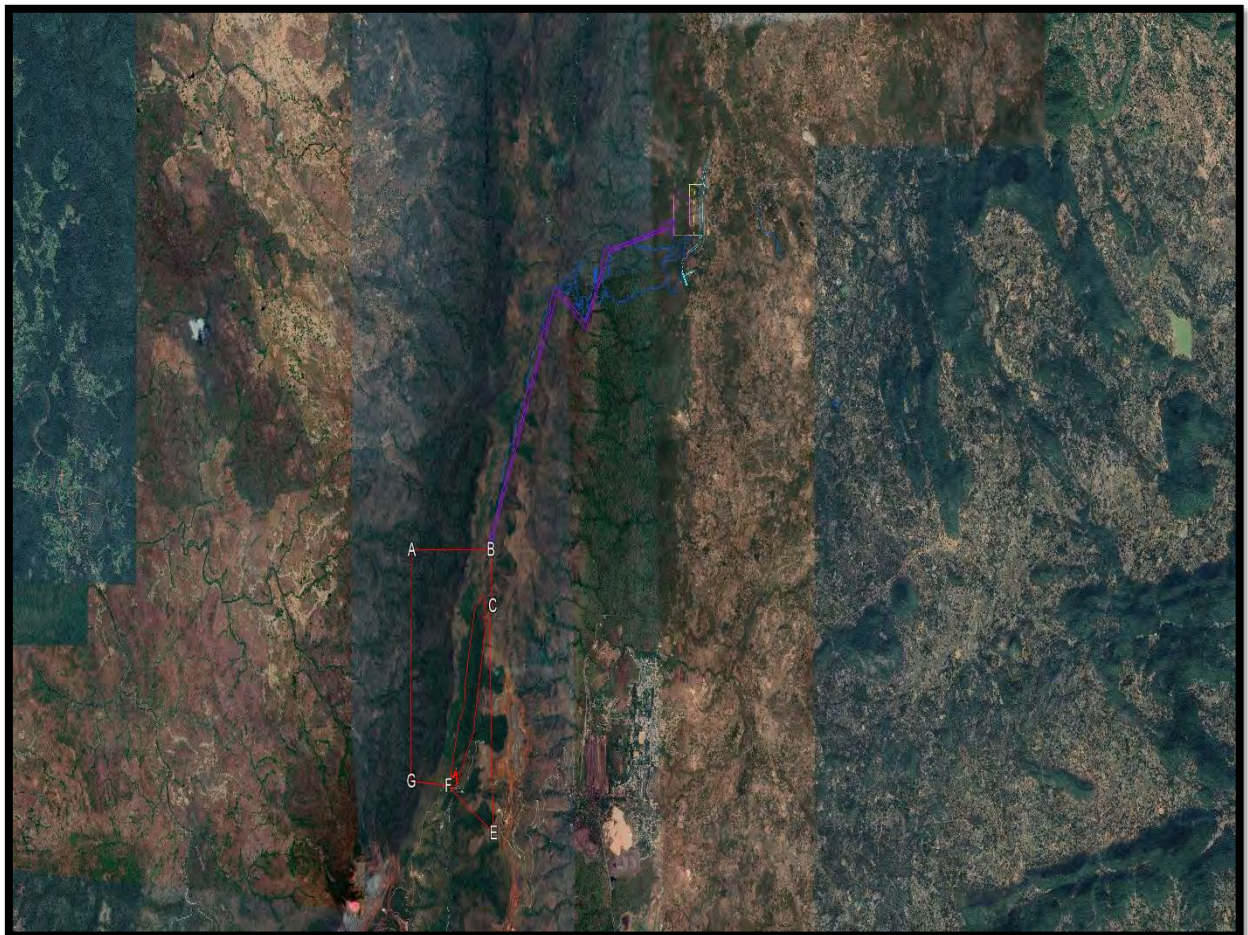
As per directives of Indian Bureau of Mines circular submission of Geo- reference map is a basic requirement which is enclosed along with the Mining Plan/ Scheme of Mining / Progressive Mine Closure Plan and Scheme of Prospecting.

Also, Ministry of Environment & Forests (MoEF), all applications for Forest Diversion, under Forest Conservation Act, 1980 must be accompanied with Geo-

referenced shape file, showing the boundary of the proposed area (both soft copy and hard copy maps), prepared using Differential GPS (DGPS) and the same should be uploaded to MoEF&CC Parivesh portal along with the forest diversion online application.

To meet the requirements of IBM & MoEF, NMDC-CMDC Limited (NCL) entrusted the DGPS survey work to M/s Geotrax International Services, Raipur (B.O), which is an empaneled agency of Directorate of Geology and Mines, Chhattisgarh (Ref. Circular No. F-7-14/2020/21, dated. 26.08.2020).

1.3 Satellite Image showing NCL "Deposit -4" ML and OML Area

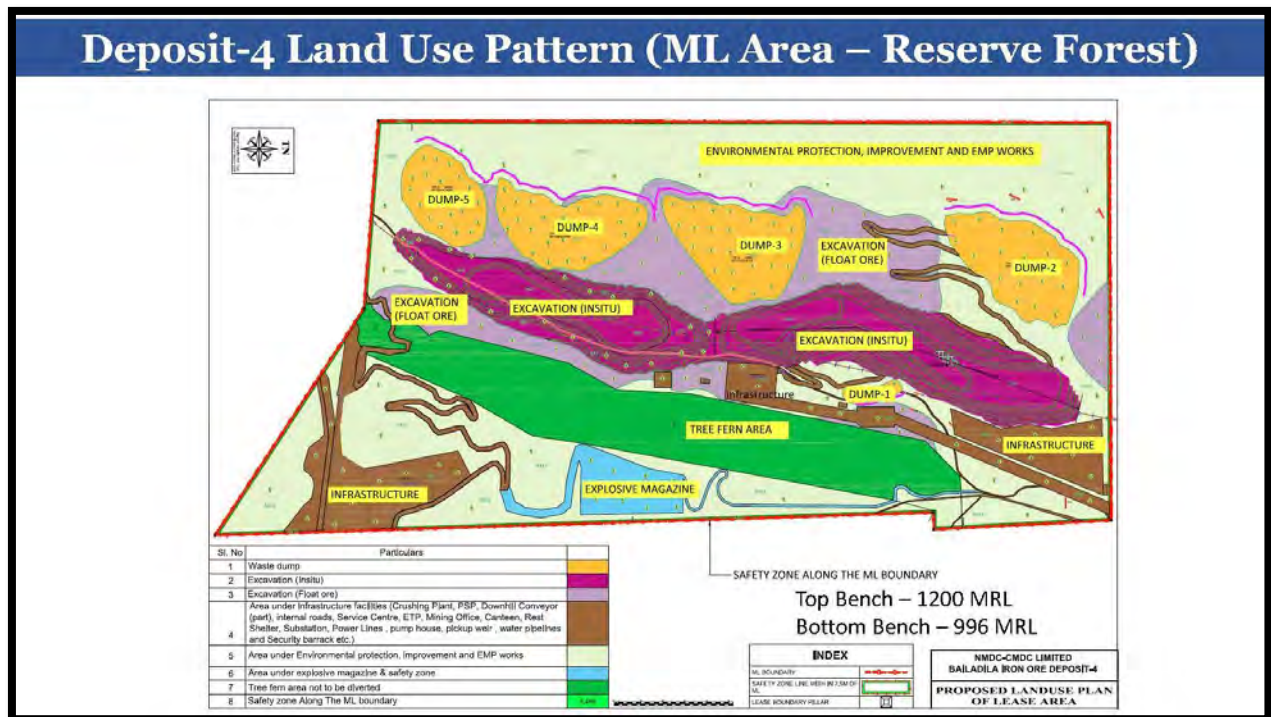


1.4 Survey & Demarcation of Tree Fern Area – 76.496 Ha

Mineral Resource Department, Government of Chhattisgarh, vide letter No.F2-20/2005/12 dated 13.01.2012 has issued the letter of intent to the Ministry of Mines, Govt. of India under Rule 27(3) of MCR 1960 for grant of precise area of

646.596 Ha for grant of mining lease in favour of M/s. NMDC Ltd for the development of Bailadila Deposit No.4

NMDC-CMDC Limited has carried out the detailed Bio-diversity study for the conservation of Tree fern Habitat that is in & around the Galli nalla and inside the Mining Lease area (ML). **Considering the many factors, including environmentally friendly manner of mining the Iron-Ore, an area of 76.496 Ha has been identified to be excluded from the Mining Lease area (ML) for protection & conservation of Tree Fern species and its habitat. Inside the Mining Lease area, the survey & demarcation of Tree fern exclusion area in & around the Galli Nalla was carried out and pillars fixed along the boundary of Tree Fern exclusion zone (covering 76.496 Ha)**



1.4.1 Google Satellite Photo of Tree Fern Exclusion area inside the ML



1.4.2 Tree Fern Boundary Pillars fixed on the ground



Statutory Clearances-Tree Fern Pillars



Statutory Clearances-Tree Fern Pillars



1.5 Geotrax Empanelment Certificate for DGPS Survey from Chhattisgarh Govt.

By Speed post

छत्तीसगढ़ शासन
खनिज साधन विभाग
मंत्रालय

महानदी भवन, नवा रायपुर अटल नगर-492002
// अधिसूचना //

अटल नगर, दिनांक अगस्त, 2020

क्रमांक एफ 7-14/2013/12 :: राज्य शासन एतद् द्वारा चीफ कन्ट्रोलर ऑफ माइन्स, भारतीय खान ब्यूरो, नागपुर के परिपत्र क्रमांक 2/2010, दिनांक 06.04.2010 के पैरा-2 के बिन्दु क्रमांक-2 एवं पत्र दिनांक 21.09.2011 तथा भारत सरकार के राजपत्र दिनांक 08.10.2014 एवं खनिज(परमाणु और हाइड्रोकार्बन ऊर्जा खनिजों से भिन्न) रियायत नियम, 2016 के नियम, 12 के अनुपालन में Differential Global Positioning System (डीजीपीएस) का उपयोग करते हुए खनिज कोयला को छोड़कर समस्त खनिजों के खनिज रियायतों के सीमाओं में Precise Boundary Pillar की स्थापना कर सर्वेक्षण करने के लिए नीचे तालिका के कॉलम नंबर-02 में दर्शित संस्थानों को अधिमाम्यता प्रदान करता है :-

क्र०	एजेन्सी का नाम एवं पता	अधिमाम्यता का विवरण
1	2	3
नवीन अधिमाम्यता हेतु अनुशसित एजेन्सी :-		
1	मेसर्स इण्ड इन्फोटेक सर्विसेस, प्लॉट नं-26, लेण्डर्स पार्क, रामदाशपेठ, नागपुर-440012(महाराष्ट्र)	खनिज कोयला को छोड़कर राज्य में समस्त खनिजों की खनिज रियायतों से संबंधित DGPS Survey कार्य हेतु !
2	मेसर्स ग्लोबल बिजनेस सॉल्यूशन, वेद आर्किड, तृतीय तल, 4-1-15/1, प्लॉट नं- 134 नचराम मेन रोड, हैदराबाद-500076(तेलंगाना)	
3	मेसर्स इनजियोटेक कंसाल्टेंट, 1338, प्रथम तल, विजय नगर, कचनार सिटी रोड, जबलपुर-482002(मध्यप्रदेश)	
4	मेसर्स एम.एन.ई.सी. कंसल्टेंट प्रा० लिमिटेड, प्रथम तल, 'प्रतिष्ठा संकुल', धर्मपेठ, नागपुर(महाराष्ट्र)	
5	मेसर्स सुमधुरा जियोमेटिका प्रा० लिमिटेड, राजि. ऑफिस-1-2-607/54/7, एबीएस कालोनी, डीबीआर मिल्स के पिछे, हैदराबाद-500080(तेलंगाना)	
6	मेसर्स जियोटैक्स इंटरनेशनल सर्विसेस, प्लॉट नंबर-53, नीरा एक्सटेंशन, पार्थिवी नगर, हीरापुर रोड, रायपुर-492009(छत्तीसगढ़)	
नवकरण हेतु अनुशसित एजेन्सी :-		
7	मेसर्स कम्प्यूटर प्लस (साफ्टवेयर डेवलपमेंट कंसल्टेन्सी) प्लॉट नं. 4, सेक्टर-1, राजीव गांधी वार्ड, देवेन्द्र नगर, रायपुर Email : info@cplus.in , rajendra@cplus.in	

उपर्युक्त तालिका के सरल क्रमांक-07 मेसर्स कम्प्यूटर प्लस(साफ्टवेयर डेवलपमेंट कंसल्टेन्सी) को विभागीय समसंख्यक अधिसूचना दिनांक 29.10.2016 द्वारा 03 वर्ष की अवधि के लिये सशर्त प्रदान की गई अधिमाम्यता की अवधि दिनांक 28.10.2019 को समाप्त हो गई है। अतएवं राज्य शासन, एतद्वारा मेसर्स कम्प्यूटर प्लस(साफ्टवेयर डेवलपमेंट कंसल्टेन्सी) की अधिमाम्यता का नवकरण दिनांक 29.10.2019 से आगामी 03 वर्ष के लिये नीचे उल्लिखित शर्तों के अधीन प्रदान करती है।

2/ अधिमाम्यता प्राप्त संस्थानों के लिए निम्नानुसार शर्तें निर्धारित की गई हैं :-

- (1) Each corner of the lease area shall have a boundary pillar(corner pillar).
- (2) There shall be erected intermediate boundary pillars between the corner pillars in such a way that each pillar is visible from the adjacent pillar located on either side of it;
- (3) The distance between two adjacent pillars shall not be more than fifty meters;
- (4) The pillar shall be of square pyramid frustum shaped above the surface and cuboid shaped below the surface;
- (5) Each pillars shall be of reinforced cement concrete;

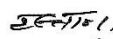
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- (6) The corner pillar shall have a base of 0.3m X 0.3m and height of 1.30m of which 0.70m shall be above ground level and 0.60m below the ground;
 - (7) The intermediate pillars shall have a base of 0.25m x 0.25m and height of 1.0m of which 0.70m shall be above ground level and 0.30 m below the ground;
 - (8) All pillars shall be painted in yellow colour and the top ten centimeters in red colour by enamel paint and shall be grouted with cement concrete.
 - (9) On all corner pillars, distance and being to the forward and backward pillars and latitude and longitude shall be marked;
 - (10) Each pillar shall have serial number in a clockwise direction and the number shall be engraved on the pillars;
 - (11) The number of pillars shall be the numbers of the individual pillar upon the total number of pillars in the lease;
 - (12) The tip of all the corner boundary pillars shall be a square of 15 centimeter on which a permanent circle of 10 centimeter diameter shall be drawn by paint or engraved and the actual boundary point shall be intersection of two diameters drawn at 90 degrees.
 - (13) The lease boundary survey shall be accurate within such limits of error as the Control General, Indian Bureau of Mines may specify in this behalf;
 - (14) The location and number of the pillars shall also be shown in the surface and other plans maintained by the lessee; and
 - (15) In case of forest area within the laese, the size and construction and colour of the boundary pillars shall be as per the norms specified by the Forest Department in this behalf.
 - (16) The Survey Agency shall be responsible for the accuracy of the data collected during Survey.
 - (17) Coordinates of boundry pillars shall be established in the World Geodetic System 1984 (WGS-84) Datum.
 - (18) डीजीपीएस सर्वे कार्य हेतु पारिश्रमिक का निर्धारण अधिमान्यता प्राप्त संस्थान एवं खनिज रियायतधारी के मध्य आपसी समन्वय से किया जायेगा। किसी भी प्रकार का आपसी विवाद होने पर राज्य शासन उत्तरदायी नहीं होगा।
 - (19) डीजीपीएस सर्वे कार्य के गुणवत्ता में कमी पाये जाने पर या किसी भी प्रकार की कार्य संबंधी शिकायत पाये जाने पर जांच उपरांत राज्य शासन को यह अधिकार होगा कि उक्त अधिकृत एंजेसी की मान्यता किसी भी समय समाप्त की जा सकती है।
 - (20) डीजीपीएस सर्वे के संबंध में भारतीय खान ब्यूरो/राज्य शासन द्वारा समय-समय पर जारी निर्देशों का पालन अधिमान्यता प्राप्त संस्थान को करना होगा।
 - (21) राज्य शासन द्वारा जारी यह अधिमान्यता 03 वर्ष के लिए होगी। समयावधि समाप्ति से 03 माह पूर्व अधिकृत एंजेसी नवीनीकरण हेतु आवेदन कर सकेगा।
- 3/ यह अधिमान्यता/नवकरण अधिसूचना के जारी होने की तिथि से 03 वर्ष के लिए ही मान्य होगी।

छत्तीसगढ़ के राज्यपाल के नाम से
तथा आदेशानुसार,


(अन्बलगन पी0)
सचिव
छत्तीसगढ़ शासन
खनिज साधन विभाग

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पृ0क्रमांक एफ 7-14 / 2013 / 12

अटल नगर, दिनांक अगस्त, 2020

26 AUG 2020

प्रतिलिपि:-

1. सचिव, भारत सरकार, खान मंत्रालय, शास्त्री भवन, नई दिल्ली,
2. कंट्रोलर जनरल, भारतीय खान ब्यूरो, सेक्रेण्ड फ्लोर, ए-ब्लॉक, इन्दिरा भवन, सिविल लाईन्स, नागपुर(महाराष्ट्र)
3. उप खान नियंत्रक, क्षेत्रीय कार्यालय भारतीय खान ब्यूरो, दूसरी मंजिल, जी.एस.आई. फील्ड प्रशिक्षण केन्द्र, महालेखाकार आफिस काम्पलेक्स, पोस्ट विधानसभा, रायपुर
4. संचालक, भौमिकी तथा खनिकर्म, छत्तीसगढ़, द्वितीय तल, इन्द्रावती भवन, नवा रायपुर अटल नगर, जिला रायपुर(छत्तीसगढ़)
5. समस्त कलेक्टर, जिला छत्तीसगढ़
6. समस्त संबंधित ~~नेसर्ग जियोटेक्नोलॉजी इंटरनेशनल सर्विसेस~~
7. संचालक, शासकीय क्षेत्रीय मुद्रणालय, खैरागढ़ रोड, राजनांदगांव, जिला राजनांदगांव(छत्तीसगढ़) की ओर साधारण राजपत्र में प्रकाशनार्थ।
8. श्री श्रीकांत राव, उप संचालक(भौमिकी), संचालनालय भौमिकी तथा खनिकर्म, द्वितीय फ्लोर, इन्द्रावती भवन, नवा रायपुर अटल नगर, जिला रायपुर(छत्तीसगढ़)। कृपया उक्त आदेश/अधिसूचना को संचालनालय की वेबसाइट में अपलोड करने का कष्ट करें।
9. गार्ड फाईल रजिस्टर

सचिव
छत्तीसगढ़ शासन
खनिज साधन विभाग
24.08.2020

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2. Scope of Work

1. Establishment of one base station for DGPS Survey with 72 Hours observation and one or more secondary control points near/inside the Mining Lease area (ML) and Outside Mining lease area (OML).
2. Fixation of ML boundary & OML mineral processing facilities corridor boundary using DGPS. The infrastructure components include- Road, Conveyor corridor, Screening Plant, Crushing Plant, Railway Siding Loading Area, Pump House, Water Pipeline etc. corridor. Boundary point fixed at every corner and turning point.
3. Identification of Forest Compartments inside/intersecting the "Deposit- 4" ML & OML area
4. Data processing and interpretation: -
 - a. Geo referencing of SOI Toposheet map (1:50000) & Forest map (1:15000).
 - b. Digitization of Private land, Govt. land and Forest Compartment boundary
 - c. Creation of proposed ML & OML Infrastructure & mineral processing facilities boundary vector map based on DGPS survey data.
 - d. Superimposition of ML boundary & OML facilities polygons on Georeferenced Forest map and cadastral maps.
 - e. Computation of total diversion area of "Deposit- 4" ML & OML facilities, which includes revenue land and forest land (RF/PF).
 - f. Preparation of DGPS report along with soft copies of maps in shape file format and kml file.
5. Printing of DGPS Survey report and Georeferenced maps.

3. Deliverables

The deliverables envisaged for the assignment are described below

1. Georeferenced Forest Compartment map, SOI Toposheet map & village cadastral map showing revenue forest & non-forest land.
2. Georeferenced shape files & kml file (Soft copy) showing Notified Forest compartment/Revenue Forest Patches.
3. Total Forest land area & non-Forest area statement as per DGPS Survey
4. Table showing ML& OML Infrastructure and Mineral Processing facilities boundary coordinates as per DGPS Survey.

4. Brief description of the technical approach

4.1 Input Data

NMDC-CMDC Limited provided the tentative boundary coordinates & certified maps of the ML area and OML Infrastructure facilities. We obtained forest compartment maps from the Forest department.

4.2 Establishment of Primary Control Point and Temporary Bench marks (TBM)

The Primary Control Point (PCP) coordinates was provided by NMDC. It is in "Deposit- 5" survey office rooftop. Geotrax has also carried DGPS observation for 72 hours at the same PCP location. As per Survey of India (SOI) Guideline, the PCP is to be fixed through continuous observation for 72 hours duration. The observed data was processed with reference to the data of International GNSS Service (IGS) stations as per SOI guideline (IGS processed report is enclosed as Annexure-1). The coordinate of the PCP after processing 72hrs data is as follows:

Latitude 18°40'47.79475"N
Longitude: 81°11'52.44065"E.
Ellipsoidal Height: 1050.367m.

Using the PCP control point, several Temporary bench marks (TBM) are established in Real-Time-Kinematic mode (RTK) using the DGPS instrument. The TBM are used as survey stations for staking out the block boundary cardinal points and also for collecting the coordinates of forest pillars & other topographical features.

The coordinate of the Secondary point is given below:

S.No	Point ID	Easting	Northing	Latitude	Longitude	Ellipsoid Height
1	SCP01	523448.859	2066325.194	18°41'16.95272"N	81°13'20.57040"E	1101.389
2	SCP02	523204.57	2069224.448	18°42'51.29405"N	81°13'12.35205"E	1095.695
3	SCP03	527652.144	2072777.983	18°44'46.71737"N	81°15'44.39792"E	436.561
4	SCP04	527922.034	2075762.96	18°46'23.82409"N	81°15'53.76693"E	446.216



Fig-1: Photo showing Primary Control Point (PCP) Deposit – 5 survey office.





4.3 DGPS Survey Procedure

Demarcation of ML Boundary, Infrastructure and Mineral Processing facilities outside Mining Lease area (OML), such as - Road, Conveyor Gallery, Crushing Plant, Screening Plant, Railway Siding area, administrative buildings etc., **is carried out using a pair of DGPS instrument in Real-Time Kinematic Mode (RTK).** In RTK survey method One DGPS Instrument is used as Base Station (established on a known coordinate location) and other is used as Rover, which collects/stake-out boundary of OML facilities.

The survey was conducted in Real Time Kinematic (RTK) survey method. The Survey team carried out DGPS Survey for fixing the ML Boundary & boundary of Infrastructure and Mineral Processing facilities outside Mining Lease area (OML), based on the NCL given cardinal/boundary points.

The survey also collected the DGPS coordinates of forest pillars and other topographical features such as road edges, nalla's, tower line center points etc.,

During the survey the **forest department staff helped to identify the forest compartments and revenue staff identified in the revenue parcels (the revenue forest khasras) that are part of the ML block boundary and OML ancillary facilities.** The revenue department staff also provided information regarding the Khasra number, ownership, land type (Kisam) etc., of the revenue forest & non-forest khasras in the OML area.

4.4 Geo-referencing & digitization of revenue khasras/notified forest compartment from revenue maps and Forest maps

The revenue maps and Forest compartment maps are geo-referenced in ArcMap software. The forest compartment boundary and non-forest area khasra boundary is digitized and compartment/khasra polygon are created and its area is computed. The forest compartment area & non-forest khasra area is reconciled with revenue records & forest records. The geo-referenced forest compartment maps & cadastral maps are separately mosaiced into one single map.



The ML block boundary & OML ancillary facilities polygon/'s is super-imposed onto the geo-referenced & mosaiced revenue map and forest compartment map.

Map Composition: The superimposed ML block boundary & OML facilities map showing the revenue land & forest land is plotted on a RF scale of 1:4000 and the same is plotted on forest compartment map on 1:15000 RF scale. The ML block boundary & OML facilities polygons is also superimposed on the geo-referenced Survey of India (SOI) map and plotted on a RF scale of 1:50000.

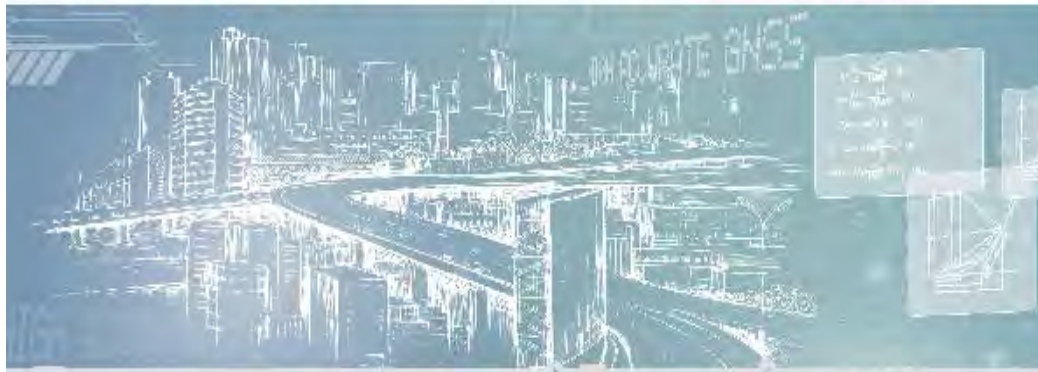
The geo-referenced cadastral maps and Forest Stock map are attached herewith and marked as Annexure-5 & 6

4.5 Specification of DGPS Equipment

Geotrax deployed the most advance and hi-precision devices to carry out the DGPS survey. The DGPS performance specifications are given below. The corresponding fact sheets are placed below for ready reference.

COMNAV

T300 GNSS Receiver



Features

- **Ultra small**
- **Super light**
- **Many user-friendly conveniences built in**
- **GPS L1/L2/L5, BeiDou B1/B2/B3, GLONASS L1/L2**
- **Low power consumption**
- **Support long baseline E-RTK¹**

RTK robust enough for challenging environments, in a device that is light and easy to carry

With decades of experience in the surveying GNSS receiver, the T300 is a product which combines lots of market proved advantages together. It can track all the working GNSS constellations. By using ComNav's unique QUANTM algorithm technology, it can function in RTK mode with all the GNSS constellations or by using any single GNSS constellation such as GLONASS or BeiDou. The strong anti-interference ability of the receiver makes it possible to work in any environment.

Design driven to improve user experience

Our R&D people are always thinking about how to improve the physical experience of users and workflow in the field. With this in mind, the T300 integrates a cutting edge GNSS board, Bluetooth®, UHF (Rx&Tx) into a compact board. Smart design makes the T300 the lightest and smallest (volume) receiver in the world.

Hot swap battery design

Extending the field working time is also a passion for our R&D people. They do lots of tests and analysis to reduce the power consumption, and make the whole system work more efficiently. In parallel, they've designed in the capability to hot swap the battery source. When the warning sounds and LED flashes, put your second battery in place. Then recharge the first while you keep working.

Consumer grade batteries... always available

Losing power in the field is significantly inconvenient for users, as the batteries for GNSS receivers are often unusual types and not readily available. Once again our R&D people developed a solution so that the T300 runs on normal consumer batteries.

Technical Specifications

T300

Signal Tracking

- 256 channels with simultaneously tracked satellite signals
- GPS: L1 C/A, L1 C, L2 P, L5
- BeiDou: B1, B2, B3
- GLONASS: L1, L2
- SBAS: WAAS, EGNOS, MSAS, GAGAN

Performance Specifications

- Cold start: <50 s
- Warm start: <30 s
- Hot start: <15 s
- Initialization time: <10 s
- Singal re-acquisition: <2 s
- Initialization reliability: >99.9%

Positioning Specifications

- Post Processing Static
- Horizontal: 2.5 mm + 0.5 ppm RMS
- Vertical: 5 mm + 0.5 ppm RMS
- Real Time Kinematic
- Horizontal: 8 mm + 1 ppm RMS
- Vertical: 15 mm + 1 ppm RMS
- E-RTK¹ (baseline < 100 km)
- Horizontal: 0.2 m + 1 ppm RMS
- Vertical: 0.4 m + 1 ppm RMS
- Code differential GNSS positioning
- Horizontal: 0.25 m + 1 ppm RMS
- Vertical: 0.5 m + 1 ppm RMS
- SBAS: Typically <1 m 3D RMS
- Standalone: <1.5 m 3D RMS

Communications and Memory

- 1 Serial port (7 pin Lemo).
- Baud rates up to 921,600 bps.
- Radio modem: Tx/Rx with full frequency range from 410-470 MHz²
- Transmit power: 0.5-2W adjustable
- Range: 1-4 km
- Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz
- 5 LEDs (indicating Power, Satellite Tracking, Bluetooth[®] and Differential Data)
- Bluetooth[®]: V 2.X protocol, work compatible with Windows 7, Windows mobile and Android

Data Format

- Correction data I/O:
 - RTCM 2.x, 3.x, CMR (GPS only), CMR+ (GPS only).
- Position data output:
 - ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST, PJK, PTNL
 - ComNav Binary update to 20 Hz

Physical

- Size(WxH): 15.8 cm x 7.5 cm
- Weight: 0.95 kg (include 2 batteries)

Environmental

- Operating temperature: -40 °C to + 65 °C (40 °F to 149 °F)
- Storage temperature: -40 °C to + 85 °C (40 °F to 185 °F)
- Humidity: 100% condensation
- Waterproof and dust proof: IP67 protected from temporary immersion to depth of 1 meter, floats
- Shock: survives a 2 meter drop on to concrete

Electrical

- Input Voltage: 5-27 VDC
- Power consumption: 2.85 W (3 constellations)³
- Li-ion battery capacity: 2 x 1800 mAh, up to 8 hours typically
- Memory: 256 MB internal with up to 16 GB pluggable memory card

Software

- ComNav field data collection software CGSurvey
- Carlson's SurvCE field data collection software (optional)
- MicroSurvey's FieldGenius field data collection software (optional)

¹ E-RTK, BeiDou B3 signal used in RTK calculate engine; concern the current situation, this mode can be used in APAC.

² 410-470 MHz, 3 frequency range, 410-430, 430-450, 450-470, need to clarify when place the order.

³ Power consumption will increase if using internal radio modem transmitter.

Specifications subject to change without notice.

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5. Results

The forest and non-forest area 682.269 Ha proposed for diversion for Bailadila Iron- Ore Deposit-4. The summary of Forest & Non-Forest Land of Mining Block area (ML) & outside mining lease boundary (OML) is annexed herewith and marked as **Annexure-1**.

The Mining Lease area (ML) & Outside mining lease infrastructure area and mineral processing facilities (OML) corridor, DGPS co-ordinates is annexed herewith and marked as **Annexure-2 and Annexure-3 respectively**.

The Geo-referenced SOI toposheet showing proposed the boundary of Mining Block area (ML) & mineral processing facilities outside mining lease (OML) is annexed herewith and marked as **Annexure-4**.

The Geo-referenced Forest compartment Map showing the proposed forest area for diversion of forest land inside the ML area & Outside mining lease (OML), is annexed herewith and marked as **Annexure-5**.

The Geo-referenced Cadastral Map showing the forest & non-forest area of Mining Lease area (ML) & Outside mining lease (OML), is annexed herewith and marked as **Annexure-6**.

The Block boundary field Survey photographs are also annexed herewith and marked as **Annexure-7**.

6. Background of Organization

Geotrax International Services (www.geotrax.in) is a Professional Land Mapping and Services provider across India established in the year 1999. During the last 15+ years, we had an opportunity to execute a variety of surveying jobs all over India and in the Middle East to various customer specifications for RIS, LIS, and Municipal GIS oriented jobs. Cadastral Surveys using ETS/DGPS and Provision of Ground control conforming to stringent accuracy standards using high end instruments as RTK/GPRS DGPS is our specialty. We also have a UAV (Drone) and Ground Penetrating Radar (on Roaster).

Geotrax is headed by Mr. V.V.S Bandhakavi (Ex-Survey of India employee) who has more than 40+ years' experience in the field of surveying in India and abroad.

Some of our major clients include:

- National Mineral Development Authority (NMDC)
- Steel Authority of India (SAIL)
- Andhra Pradesh Mineral Development Corporation (APMDC)
- National Thermal Power Corporation (NTPC)
- Adani Enterprises
- Hindalco Industries Limited
- Survey Settlement and Land Records Department (Govt. Of Madhya Pradesh)
- National Remote Sensing Agency (Hyderabad)
- Sterlite Power Transmission Limited
- EMIL Mines and Mineral Resources Ltd (EMMRL)

Geotrax expertise covers:

- ❖ DGPS Surveys for Mining lease boundary, and Forest Diversion



- ❖ Consultancy services for Forest Clearance, Mining Plan & EIA
- ❖ Boundary and cadastral surveys using DGPS and Total station;
- ❖ Topographic surveys.
- ❖ Ground control surveys for photogrammetric projects, including Airborne GPS.
- ❖ Route and alignment surveys combining conventional and photogrammetric methods.
- ❖ Construction and cross-section surveys (from road design to precision layout and quality control).

Being a client focused organization, Geotrax's combination of survey equipment, personnel, and computer resources allow for the tailoring of the project approach to match the orders of accuracy and precision requirements for each project. Geotrax's equipment resources include 100 DGPS, 33 hand-held GPS units, theodolites, electronic digital and automatic levels, 19 Electronic Total Stations, and data collectors.

On the mapping side, our CAD and GIS professionals assist the survey projects by creating accurate maps. We have dedicated CAD experts who have extensive experience with different CAD software.

7. Annexure

7.1 Annexure – 1: Summary of Notified Forest & Revenue-Forest Land inside the Mining Lease (ML) & outside mining lease Boundary (OML)

NMDC-CMDC Ltd. (NCL)							
Deposit-04 Iron Ore Block - Total Forest Diversion Area 682.27 Hectares							
Schedule of Forest Land proposed for Diversion - Reserved Forest							
Details of Reserved Forest							
	Sl.No	Forest Circle	Forest Division	Range	Mining Block/Infrastructure Facilities	Compartment No.	Total Area (in Ha)
(I)	1	Jagdapur	Dantewada	Bacheli	Mining Block	1832	9.0520
	2	Jagdapur	Dantewada	Bacheli	Mining Block	1833	104.3320
	3	Jagdapur	Dantewada	Bacheli	Mining Block	1886	45.2390
	4	Jagdapur	Dantewada	Bacheli	Mining Block	1885	160.8620
	5	Jagdapur	Dantewada	Bacheli	Mining Block	1834	115.7390
	6	Jagdapur	Dantewada	Bacheli	Mining Block	1842	31.1260
	7	Jagdapur	Dantewada	Bacheli	Mining Block	1841	103.2380
	8	Jagdapur	Dantewada	Bacheli	Mining Block	1826	0.5120

Geotrax 2023

Chief Executive Officer
NMDC-CMDC Limited
Greens Valley City, Housing Board Colony,
Boriyakala Sejbahar, Raipur-492015 (C.G.)

Divisional Forest Officer
Dantewada Division
Dantewada

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जन जन प्रण्डलाधिकारी
जन परिक्षेत्र अधिकारी
बघेली

NMDC-CMDC Ltd. (NCL)

Deposit-04 Iron Ore Block - Total Forest Diversion Area 682.27 Hectares

(A) Schedule of Forest Land proposed for Diversion - Reserved Forest

Details of Reserved Forest

9	Jagdarpur	Dantewada	Bacheli	Roads	1822	0.9130
10	Jagdarpur	Dantewada	Bacheli	Roads	1824	9.5090
11	Jagdarpur	Dantewada	Bacheli	Roads	1825	11.8080
12	Jagdarpur	Dantewada	Bacheli	Roads	1826	5.2860
13	Jagdarpur	Dantewada	Bacheli	Downhill Conveyor	1822	5.7140
14	Jagdarpur	Dantewada	Bacheli	Downhill Conveyor	1824	12.0060
15	Jagdarpur	Dantewada	Bacheli	Downhill Conveyor	1825	7.4680
16	Jagdarpur	Dantewada	Bacheli	Downhill Conveyor	1826	17.1650
17	Jagdarpur	Dantewada	Bacheli	Downhill Conveyor	1834	0.6470
18	Jagdarpur	Dantewada	Bacheli	Screening Plant	1824	18.2810
19	Jagdarpur	Dantewada	Bacheli	Loading Plant	1824	10.0830
20	Jagdarpur	Dantewada	Bacheli	Loading Plant	1811	0.1560
21	Jagdarpur	Dantewada	Bacheli	Railway Siding	1825	0.2260
22	Jagdarpur	Dantewada	Bacheli	Railway Siding	1824	0.7010
23	Jagdarpur	Dantewada	Bacheli	Railway Siding	1811	0.1140

Total Reserved Forest Area in Hectares

670.1770

Details of Revenue Forest (Chote Jhad Ka Jungle (CJJ) + Bade Jhad Ka Jungle (BJJ))

Sl. No	Patwari Halka no.	Village Name	Tehsil	District	Mining Block/Infrastructure Facilities	Total Area (in Ha)
24		Bade Kameli	Bacheli	Jagdarpur	Pumphouse	0.4000
25		Bhansi	Bacheli	Jagdarpur	Pipeline	0.1653
26		Poro kameli	Bacheli	Jagdarpur	Loading Plant and Railway Siding	11.5299

Total Revenue Forest Area in Hectares

12.0952

Total Forest Land (A (I)+A(II))=670.18+12.09 = 682.269 Ha

(B) Non-Forest Land to be acquired - (Adivasi Land, Govt. Land and Non-Adivasi Land) 7.9686

(C) Railway Land to be used for Siding (Non-Forest Land) 2.4020

Total Deposit-04 Area - Mining Area + Infrastructure Area (A + B+ C) - 692.6428 Ha

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Greens Valley City, Housing Board Colony,
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Divisional Forest Officer
Dantewada Division
DANTEWADA

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7.2 Annexure-1b: Summary of Notified Forest Land use details inside and outside the ML

Compartment wise Land use details of the Mining Lease of Deposit No.4 (Forest Land)

	Forest Circle	Forest Division	Range	Mining Block	Compartment No.	Total Area (in Ha)
1	Jagdarpur	Dantewada	Bacheli	Mining Block	1832	9.0520
2	Jagdarpur	Dantewada	Bacheli	Mining Block	1833	104.3320
3	Jagdarpur	Dantewada	Bacheli	Mining Block	1886	45.2390
4	Jagdarpur	Dantewada	Bacheli	Mining Block	1885	160.8620
5	Jagdarpur	Dantewada	Bacheli	Mining Block	1834	115.7390
6	Jagdarpur	Dantewada	Bacheli	Mining Block	1842	31.1260
7	Jagdarpur	Dantewada	Bacheli	Mining Block	1841	103.2380
8	Jagdarpur	Dantewada	Bacheli	Mining Block	1826	0.5120
Total Notified Forest inside the ML						570.10

Land use details outside the Mining Lease of Deposit No.4 (Forest Land)

Head	Compartment No	Reserve forest	Total forest area in Ha
Existing roads widening/Strengthening for two way traffic and new approach roads to all the plants & Transfer houses	1822	0.913	27.516
	1824	9.509	
	1825	11.808	
	1826	5.286	
Down hill conveyor system including Over head electrical line and Water pipe line	1822	5.714	43
	1824	12.006	
	1825	7.468	
	1826	17.165	
	1834	0.647	
Screening plant	1824	18.281	18.281
Loading plant	1824	10.083	10.239
	1811	0.156	
Railway Siding	1825	0.226	1.041
	1824	0.701	
	1811	0.114	
TOTAL			100.077

7.3 Annexure - 2: Boundary Coordinates of Mining Lease (ML) area and Tree Fern Area

Mine Lease Coordinates of Dep-4

Pillar	Longitude	Latitude
A	81°12'03.25650"E	18°43'38.32617"N

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बघेली

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Dantewada Division
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वन वन्यजन्तु अधिकारी
दन्तेवाड़ा

Chinmay Executive Officer
NMDC-CMDC Limited
Greens Valley City, Housing Board Colony,
Borivakala, Solihabur, Bhopal 462015 (M.P.)

B	81°13'04.84428"E	18°43'38.52758"N
C	81°13'06.24991"E	18°43'12.30677"N
D	81°13'03.60782"E	18°43'12.27943"N
E	81°13'07.02661"E	18°41'26.17920"N
F	81°12'31.89279"E	18°41'48.22195"N
G	81°12'02.90192"E	18°41'50.38796"N
Coordinates of the Tree fern area PORTION A		
Point ID	Longitude	Latitude
A1	81° 12' 37.71"	18° 41' 48.08"
A2	81° 12' 37.92"	18° 41' 47.78"
A3	81° 12' 36.71"	18° 41' 47.27"
A4	81° 12' 35.34"	18° 41' 47.52"
A5	81° 12' 34.56"	18° 41' 47.42"
A6	81° 12' 34.15"	18° 41' 47.10"
A7	81° 12' 32.79"	18° 41' 47.95"
A8	81° 12' 31.98"	18° 41' 48.46"
A9	81° 12' 30.79"	18° 41' 48.55"
A10	81° 12' 31.15"	18° 41' 48.75"
A11	81° 12' 31.20"	18° 41' 49.36"
A12	81° 12' 31.64"	18° 41' 49.43"
A13	81° 12' 31.91"	18° 41' 49.50"
A14	81° 12' 33.35"	18° 41' 51.08"
A15	81° 12' 33.58"	18° 41' 51.14"
A16	81° 12' 33.71"	18° 41' 51.58"
A17	81° 12' 33.81"	18° 41' 52.07"
A18	81° 12' 33.81"	18° 41' 52.11"
A19	81° 12' 33.87"	18° 41' 52.13"
A20	81° 12' 34.34"	18° 41' 52.24"
A21	81° 12' 34.86"	18° 41' 52.24"
A22	81° 12' 35.85"	18° 41' 51.80"
A23	81° 12' 36.97"	18° 41' 52.30"
A24	81° 12' 37.27"	18° 41' 53.18"
A25	81° 12' 37.38"	18° 41' 54.02"
A26	81° 12' 37.43"	18° 41' 54.41"

A27	81° 12' 38.23"	18° 41' 54.37"
A28	81° 12' 38.16"	18° 41' 52.04"
Coordinates of the Tree fern area PORTION B		
Point ID	Longitude	Latitude
B1	81° 12' 37.21"	18° 41' 55.22"
B2	81° 12' 36.76"	18° 41' 54.37"
B3	81° 12' 36.49"	18° 41' 53.16"
B4	81° 12' 36.01"	18° 41' 52.73"
B5	81° 12' 35.65"	18° 41' 52.58"
B6	81° 12' 35.01"	18° 41' 52.85"
B7	81° 12' 34.35"	18° 41' 52.82"
B8	81° 12' 33.89"	18° 41' 52.81"
B9	81° 12' 33.91"	18° 41' 53.23"
B10	81° 12' 33.94"	18° 41' 53.90"
B11	81° 12' 34.07"	18° 41' 54.78"
B12	81° 12' 34.34"	18° 41' 55.55"
B13	81° 12' 34.50"	18° 41' 55.99"
B14	81° 12' 34.74"	18° 41' 56.43"
B15	81° 12' 35.13"	18° 41' 56.94"
B16	81° 12' 35.47"	18° 41' 57.25"
B17	81° 12' 35.83"	18° 41' 57.57"
B18	81° 12' 36.09"	18° 41' 57.80"
B19	81° 12' 35.34"	18° 41' 59.36"
B20	81° 12' 40.34"	18° 42' 18.22"
B21	81° 12' 44.53"	18° 42' 25.48"
B22	81° 12' 45.15"	18° 42' 36.23"
B23	81° 12' 52.50"	18° 43' 11.05"
B24	81° 12' 58.04"	18° 43' 16.25"
B25	81° 13' 00.26"	18° 43' 16.36"
B26	81° 13' 00.33"	18° 43' 15.71"
B27	81° 13' 00.35"	18° 43' 14.83"
B28	81° 13' 00.36"	18° 43' 13.94"
B29	81° 13' 00.76"	18° 43' 12.54"

B30	81° 13' 00.94"	18° 43' 11.84"
B31	81° 13' 00.96"	18° 43' 11.01"
B32	81° 13' 00.82"	18° 43' 10.25"
B33	81° 13' 00.56"	18° 43' 09.60"
B34	81° 13' 00.09"	18° 43' 08.79"
B35	81° 12' 59.56"	18° 43' 08.31"
B36	81° 12' 59.33"	18° 43' 07.60"
B37	81° 12' 59.43"	18° 43' 06.92"
B38	81° 12' 59.84"	18° 43' 06.45"
B39	81° 13' 00.84"	18° 43' 06.42"
B40	81° 13' 01.37"	18° 43' 06.37"
B41	81° 13' 01.68"	18° 43' 06.27"
B42	81° 12' 56.92"	18° 42' 41.66"
B43	81° 12' 52.85"	18° 42' 20.56"
B44	81° 12' 51.67"	18° 42' 13.08"
B45	81° 12' 46.02"	18° 42' 03.85"
B46	81° 12' 38.96"	18° 41' 48.55"
B47	81° 12' 38.72"	18° 41' 48.55"
B48	81° 12' 38.68"	18° 41' 48.60"
B49	81° 12' 38.65"	18° 41' 49.62"
B50	81° 12' 38.84"	18° 41' 50.65"
B51	81° 12' 39.18"	18° 41' 51.87"
B52	81° 12' 39.00"	18° 41' 52.71"
B53	81° 12' 38.84"	18° 41' 53.58"
B54	81° 12' 38.71"	18° 41' 54.70"
B55	81° 12' 38.57"	18° 41' 54.86"

7.4 Annexure 3: Coordinates of Forest Patch of Outside mining lease infrastructure facilities

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
1	C1	81°13'02.16001"	18°43'38.52001"	522904.322	2070675.561	Downhill Conveyor
2	C2	81°13'23.55491"	18°44'26.76344"	523528.985	2072159.086	Downhill Conveyor
3	C3	81°13'21.97994"	18°44'27.39199"	523482.843	2072178.347	Downhill Conveyor
4	C4	81°13'23.95999"	18°44'31.89998"	523540.648	2072316.972	Downhill Conveyor
5	C5	81°13'25.54000"	18°44'31.26998"	523586.937	2072297.667	Downhill Conveyor
6	C6	81°13'32.09999"	18°44'46.19000"	523778.44	2072756.473	Downhill Conveyor

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
7	C7	81°13'30.53518"	18°44'46.81701"	523732.597	2072775.687	Downhill Conveyor
8	C8	81°13'33.65000"	18°44'53.90002"	523823.524	2072993.497	Downhill Conveyor
9	C9	81°13'35.21525"	18°44'53.28099"	523869.379	2072974.529	Downhill Conveyor
10	C10	81°13'44.14001"	18°45'13.56001"	524129.895	2073598.136	Downhill Conveyor
11	C11	81°13'42.56000"	18°45'14.19001"	524083.609	2073617.44	Downhill Conveyor
12	C12	81°13'45.98000"	18°45'21.97001"	524183.435	2073856.686	Downhill Conveyor
13	C13	81°13'47.55000"	18°45'21.34001"	524229.428	2073837.382	Downhill Conveyor
14	C14	81°13'51.92000"	18°45'31.27000"	524356.979	2074142.745	Downhill Conveyor
15	C15	81°13'50.49998"	18°45'32.24999"	524315.365	2074172.811	Downhill Conveyor
16	C16	81°13'54.57000"	18°45'41.49000"	524434.158	2074456.957	Downhill Conveyor
17	C17	81°14'18.92000"	18°45'24.71000"	525147.76	2073942.166	Downhill Conveyor
18	C18	81°14'31.62998"	18°45'49.86000"	525518.838	2074715.651	Downhill Conveyor
19	C19	81°14'30.18998"	18°45'50.60002"	525476.648	2074738.338	Downhill Conveyor
20	C20	81°14'34.82002"	18°45'59.89000"	525611.813	2075024.05	Downhill Conveyor
21	C21	81°14'37.00000"	18°46'00.39000"	525675.615	2075039.505	Downhill Conveyor
22	C22	81°14'37.38001"	18°45'58.65001"	525686.814	2074986.041	Downhill Conveyor
23	C23	81°15'19.10002"	18°46'08.72000"	526907.802	2075297.254	Downhill Conveyor
24	C24	81°15'18.67000"	18°46'10.33000"	526895.141	2075346.719	Downhill Conveyor
25	C25	81°15'27.20999"	18°46'12.38999"	527145.069	2075410.392	Downhill Conveyor
26	C26	81°15'27.20999"	18°46'09.19999"	527145.211	2075312.348	Downhill Conveyor
27	C27	81°14'37.07999"	18°45'57.24000"	525678.089	2074942.693	Downhill Conveyor
28	C28	81°14'18.83000"	18°45'21.16001"	525145.271	2073833.054	Downhill Conveyor
29	C29	81°14'10.42230"	18°45'27.33446"	524898.853	2074022.497	Downhill Conveyor
30	C30	81°14'10.93999"	18°45'28.41001"	524913.966	2074055.574	Downhill Conveyor
31	C31	81°13'56.66002"	18°45'38.23999"	524495.479	2074357.148	Downhill Conveyor
32	C32	81°13'04.00050"	18°43'38.52489"	522958.217	2070675.776	Downhill Conveyor
33	S2	81°15'39.39998"	18°46'23.45002"	527501.448	2075750.842	Loading plant
34	L2	81°15'43.01960"	18°46'11.34640"	527607.962	2075378.993	Loading plant
35	S3	81°15'39.37000"	18°46'05.18999"	527501.393	2075189.619	Loading plant
36	L4	81°15'42.24525"	18°46'08.20598"	527585.434	2075282.439	Loading plant
37	L5	81°15'41.47808"	18°46'05.18992"	527563.11	2075189.707	Loading plant
38	L6	81°15'39.40918"	18°46'27.53623"	527501.533	2075876.432	Loading plant
39	RS3	81°15'37.35000"	18°45'56.58001"	527442.641	2074924.905	Railway siding
40	RS4	81°15'33.99858"	18°45'53.32284"	527344.667	2074824.652	Railway siding
41	RS14	81°15'35.42305"	18°45'53.23617"	527386.376	2074822.049	Railway siding
42	RS15	81°15'38.04001"	18°45'55.64999"	527462.884	2074896.35	Railway siding
43	R1	81°13'04.15112"	18°43'38.52535"	522962.628	2070675.796	Road 1
44	R2	81°13'04.82426"	18°43'38.92711"	522982.325	2070688.168	Road 1
45	R3	81°13'05.14999"	18°43'39.15001"	522991.855	2070695.03	Road 1
46	R4	81°13'05.43343"	18°43'39.55325"	523000.14	2070707.434	Road 1
47	R5	81°13'06.58168"	18°43'41.96103"	523033.674	2070781.477	Road 1
48	R6	81°13'06.75061"	18°43'42.47035"	523038.602	2070797.137	Road 1
49	R7	81°13'06.57742"	18°43'43.06146"	523033.508	2070815.299	Road 1
50	R8	81°13'06.65565"	18°43'44.53746"	523035.743	2070860.666	Road 1
51	R9	81°13'07.64615"	18°43'46.79046"	523064.663	2070929.947	Road 1
52	R10	81°13'07.43002"	18°43'45.91999"	523058.367	2070903.186	Road 1

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
53	R11	81°13'07.27860"	18°43'43.13687"	523054.038	2070817.642	Road 1
54	R12	81°13'07.47728"	18°43'42.45876"	523059.882	2070796.807	Road 1
55	R13	81°13'07.23465"	18°43'41.72625"	523052.804	2070774.285	Road 1
56	R14	81°13'06.03947"	18°43'39.22200"	523017.9	2070697.275	Road 1
57	R15	81°13'05.65526"	18°43'38.68394"	523006.669	2070680.724	Road 1
58	R16	81°13'05.20000"	18°43'38.37000"	522993.349	2070671.059	Road 1
59	R17	81°13'04.86998"	18°43'38.19000"	522983.691	2070665.514	Road 1
60	R18	81°13'04.84000"	18°43'38.52998"	522982.801	2070675.963	Road 1
61	R19	81°13'09.50361"	18°43'56.20834"	523118.7	2071219.471	Road 2
62	R20	81°13'10.14803"	18°43'57.78207"	523137.511	2071267.862	Road 2
63	R21	81°13'10.78236"	18°43'58.74906"	523156.049	2071297.605	Road 2
64	R22	81°13'11.81387"	18°44'01.29598"	523186.158	2071375.922	Road 2
65	R23	81°13'12.43021"	18°44'02.50804"	523204.16	2071413.196	Road 2
66	R24	81°13'13.17930"	18°44'04.72244"	523226.011	2071481.282	Road 2
67	R25	81°13'13.79420"	18°44'06.73698"	523243.94	2071543.221	Road 2
68	R26	81°13'14.56205"	18°44'08.07953"	523266.373	2071584.512	Road 2
69	R27	81°13'15.08089"	18°44'09.12237"	523281.526	2071616.582	Road 2
70	R28	81°13'15.01744"	18°44'09.59465"	523279.65	2071631.095	Road 2
71	R29	81°13'14.54999"	18°44'10.45000"	523265.93	2071657.367	Road 2
72	R30	81°13'14.01220"	18°44'12.08161"	523250.12	2071707.495	Road 2
73	R31	81°13'14.09486"	18°44'14.02508"	523252.467	2071767.23	Road 2
74	R32	81°13'14.44473"	18°44'16.51563"	523262.617	2071843.79	Road 2
75	R33	81°13'14.63037"	18°44'18.32807"	523267.984	2071899.501	Road 2
76	R34	81°13'16.04480"	18°44'19.68266"	523309.349	2071941.186	Road 2
77	R35	81°13'16.70568"	18°44'21.43293"	523328.634	2071995.004	Road 2
78	R36	81°13'16.97255"	18°44'22.98003"	523336.389	2072042.563	Road 2
79	R37	81°13'18.09984"	18°44'25.34279"	523369.308	2072115.223	Road 2
80	R38	81°13'19.65000"	18°44'27.34001"	523414.622	2072176.664	Road 2
81	R39	81°13'20.92001"	18°44'28.16999"	523451.777	2072202.22	Road 2
82	R40	81°13'22.17000"	18°44'28.47001"	523488.367	2072211.487	Road 2
83	R41	81°13'23.02000"	18°44'30.21000"	523513.189	2072264.996	Road 2
84	R42	81°13'23.08001"	18°44'30.43000"	523514.938	2072271.76	Road 2
85	R43	81°13'23.17001"	18°44'31.29000"	523517.54	2072298.195	Road 2
86	R44	81°13'24.43287"	18°44'37.08313"	523554.295	2072476.292	Road 2
87	R45	81°13'24.80235"	18°44'39.10217"	523565.036	2072538.361	Road 2
88	R46	81°13'25.16002"	18°44'40.63999"	523575.449	2072585.639	Road 2
89	R47	81°13'26.09000"	18°44'42.24998"	523602.618	2072635.156	Road 2
90	R48	81°13'27.36001"	18°44'44.67998"	523639.71	2072709.888	Road 2
91	R49	81°13'28.61000"	18°44'46.66999"	523676.233	2072771.097	Road 2
92	R50	81°13'29.38334"	18°44'47.31617"	523698.852	2072790.985	Road 2
93	R51	81°13'30.73975"	18°44'47.50259"	523738.56	2072796.765	Road 2
94	R52	81°13'30.83440"	18°44'47.49748"	523741.332	2072796.612	Road 2
95	R54	81°13'29.68000"	18°44'46.70002"	523707.562	2072772.059	Road 2
96	R55	81°13'29.14000"	18°44'46.25002"	523691.768	2072758.208	Road 2
97	R56	81°13'27.95675"	18°44'44.36401"	523657.195	2072700.199	Road 2
98	R57	81°13'26.69002"	18°44'41.95000"	523620.198	2072625.958	Road 2

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
99	R58	81°13'25.79999"	18°44'40.40999"	523594.197	2072578.593	Road 2
100	R59	81°13'25.10000"	18°44'36.96000"	523573.834	2072472.532	Road 2
101	R60	81°13'23.99999"	18°44'31.88000"	523541.82	2072316.359	Road 2
102	R61	81°13'23.95999"	18°44'31.89998"	523540.648	2072316.972	Road 2
103	R62	81°13'22.15070"	18°44'27.78035"	523487.829	2072190.289	Road 2
104	R63	81°13'21.20999"	18°44'27.56000"	523460.292	2072183.483	Road 2
105	R64	81°13'20.15000"	18°44'26.86999"	523429.281	2072162.237	Road 2
106	R65	81°13'18.82999"	18°44'25.04000"	523390.699	2072105.944	Road 2
107	R66	81°13'17.64001"	18°44'22.76999"	523355.942	2072036.132	Road 2
108	R67	81°13'17.37001"	18°44'21.21000"	523348.095	2071988.176	Road 2
109	R68	81°13'16.64955"	18°44'19.26689"	523327.073	2071928.429	Road 2
110	R69	81°13'15.40522"	18°44'17.94769"	523290.687	2071887.839	Road 2
111	R70	81°13'15.12998"	18°44'16.41001"	523282.686	2071840.568	Road 2
112	R71	81°13'14.79000"	18°44'13.97000"	523272.824	2071765.563	Road 2
113	R72	81°13'14.71001"	18°44'12.17000"	523270.55	2071710.237	Road 2
114	R73	81°13'15.19000"	18°44'10.70002"	523284.661	2071665.075	Road 2
115	R74	81°13'15.69000"	18°44'09.80002"	523299.336	2071637.432	Road 2
116	R75	81°13'15.77103"	18°44'09.21332"	523301.731	2071619.403	Road 2
117	R76	81°13'09.55694"	18°43'55.20179"	523120.3	2071188.536	Road 2
118	R77	81°13'33.65000"	18°44'53.90002"	523823.524	2072993.497	Road 3
119	R78	81°13'33.33105"	18°44'55.05736"	523814.14	2073029.056	Road 3
120	R79	81°13'33.06446"	18°44'56.56628"	523806.276	2073075.423	Road 3
121	R80	81°13'33.30001"	18°44'58.85002"	523813.084	2073145.622	Road 3
122	R81	81°13'33.42000"	18°44'59.79001"	523816.56	2073174.517	Road 3
123	R82	81°13'34.20001"	18°45'00.58000"	523839.368	2073198.826	Road 3
124	R83	81°13'34.92998"	18°45'01.00001"	523860.725	2073211.762	Road 3
125	R84	81°13'35.20178"	18°45'01.19586"	523868.675	2073217.792	Road 3
126	R85	81°13'35.45000"	18°45'01.48000"	523875.932	2073226.534	Road 3
127	R86	81°13'35.78002"	18°45'02.94001"	523885.538	2073271.419	Road 3
128	R87	81°13'36.01999"	18°45'04.56001"	523892.501	2073321.219	Road 3
129	R88	81°13'36.31001"	18°45'05.58000"	523900.952	2073352.579	Road 3
130	R89	81°13'36.23002"	18°45'06.54001"	523898.573	2073382.081	Road 3
131	R90	81°13'36.34000"	18°45'08.12999"	523901.731	2073430.953	Road 3
132	R91	81°13'36.61000"	18°45'08.87000"	523909.607	2073453.708	Road 3
133	R92	81°13'37.34000"	18°45'09.96998"	523930.938	2073487.543	Road 3
134	R93	81°13'43.12999"	18°45'15.48000"	524100.247	2073657.109	Road 3
135	R94	81°13'42.56000"	18°45'14.19001"	524083.609	2073617.44	Road 3
136	R95	81°13'42.70001"	18°45'14.14001"	524087.71	2073615.908	Road 3
137	R96	81°13'40.18001"	18°45'11.71001"	524014.023	2073541.128	Road 3
138	R97	81°13'37.88000"	18°45'09.55001"	523946.765	2073474.655	Road 3
139	R98	81°13'37.22999"	18°45'08.59000"	523927.771	2073445.125	Road 3
140	R99	81°13'37.00999"	18°45'07.99999"	523921.353	2073426.983	Road 3
141	R100	81°13'36.90998"	18°45'06.54998"	523918.481	2073382.413	Road 3
142	R101	81°13'36.99998"	18°45'05.51002"	523921.157	2073350.453	Road 3
143	R102	81°13'36.68999"	18°45'04.43002"	523912.123	2073317.248	Road 3
144	R103	81°13'36.45001"	18°45'02.81999"	523905.159	2073267.755	Road 3

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
145	R104	81°13'36.09001"	18°45'01.19002"	523894.683	2073217.645	Road 3
146	R105	81°13'35.67568"	18°45'00.72130"	523882.569	2073203.224	Road 3
147	R106	81°13'35.31650"	18°45'00.46325"	523872.063	2073195.279	Road 3
148	R107	81°13'34.63000"	18°45'00.06998"	523851.978	2073183.167	Road 3
149	R108	81°13'34.07002"	18°44'59.50000"	523835.604	2073165.627	Road 3
150	R109	81°13'33.75314"	18°44'56.58887"	523826.439	2073076.142	Road 3
151	R110	81°13'33.99796"	18°44'55.20322"	523833.661	2073033.564	Road 3
152	R111	81°13'34.50058"	18°44'53.56621"	523848.442	2072983.269	Road 3
153	R112	81°13'45.43000"	18°45'20.72002"	524167.381	2073818.247	Road 4
154	R113	81°13'45.49001"	18°45'24.54998"	524168.987	2073935.963	Road 4
155	R114	81°13'46.54999"	18°45'27.49000"	524199.905	2074026.364	Road 4
156	R115	81°13'47.47001"	18°45'29.20000"	524226.774	2074078.955	Road 4
157	R116	81°13'48.36000"	18°45'29.84000"	524252.806	2074098.659	Road 4
158	R117	81°13'50.77999"	18°45'31.34002"	524323.599	2074144.854	Road 4
159	R118	81°13'51.17002"	18°45'31.78001"	524335.001	2074158.392	Road 4
160	R119	81°13'51.73000"	18°45'31.39999"	524351.411	2074146.733	Road 4
161	R120	81°13'51.26999"	18°45'30.84001"	524337.965	2074129.505	Road 4
162	R121	81°13'50.27999"	18°45'30.21998"	524309.005	2074110.411	Road 4
163	R122	81°13'48.74999"	18°45'29.30000"	524264.245	2074082.077	Road 4
164	R123	81°13'48.00000"	18°45'28.77001"	524242.308	2074065.76	Road 4
165	R124	81°13'47.17999"	18°45'27.23000"	524218.361	2074018.397	Road 4
166	R125	81°13'46.17001"	18°45'24.44000"	524188.901	2073932.608	Road 4
167	R126	81°13'46.12001"	18°45'21.91000"	524187.537	2073854.847	Road 4
168	R127	81°13'45.98000"	18°45'21.97001"	524183.435	2073856.686	Road 4
169	R128	81°13'55.70000"	18°45'40.70999"	524467.273	2074433.026	Road 5
170	R129	81°13'56.19000"	18°45'40.99000"	524481.608	2074441.651	Road 5
171	R130	81°13'56.50000"	18°45'41.18000"	524490.676	2074447.502	Road 5
172	R131	81°13'56.97998"	18°45'41.47999"	524504.717	2074456.741	Road 5
173	R132	81°13'57.63000"	18°45'41.72000"	524523.738	2074464.142	Road 5
174	R133	81°13'58.36001"	18°45'41.60999"	524545.115	2074460.789	Road 5
175	R134	81°13'58.90001"	18°45'41.29999"	524560.938	2074451.282	Road 5
176	R135	81°13'59.23999"	18°45'41.17000"	524570.897	2074447.3	Road 5
177	R136	81°13'59.99999"	18°45'40.87001"	524593.16	2074438.109	Road 5
178	R137	81°14'00.49999"	18°45'39.94999"	524607.836	2074409.851	Road 5
179	R138	81°14'00.80999"	18°45'39.42000"	524616.933	2074393.574	Road 5
180	R139	81°14'01.57999"	18°45'38.97000"	524639.496	2074379.773	Road 5
181	R140	81°14'02.37998"	18°45'38.61000"	524662.932	2074368.739	Road 5
182	R141	81°14'03.09001"	18°45'38.40998"	524683.728	2074362.619	Road 5
183	R142	81°14'04.00999"	18°45'38.40998"	524710.663	2074362.654	Road 5
184	R143	81°14'04.40002"	18°45'38.47000"	524722.08	2074364.514	Road 5
185	R144	81°14'05.84002"	18°45'38.23999"	524764.249	2074357.5	Road 5
186	R145	81°14'06.02002"	18°45'38.22998"	524769.52	2074357.199	Road 5
187	R146	81°14'06.06001"	18°45'38.29000"	524770.688	2074359.045	Road 5
188	R147	81°14'06.07999"	18°45'38.43000"	524771.268	2074363.349	Road 5
189	R148	81°14'05.92001"	18°45'38.56000"	524766.578	2074367.338	Road 5
190	R149	81°14'05.25998"	18°45'38.92000"	524747.24	2074378.378	Road 5

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
191	R150	81°14'04.72999"	18°45'39.35002"	524731.705	2074391.574	Road 5
192	R151	81°14'04.31999"	18°45'39.93998"	524719.677	2074409.691	Road 5
193	R152	81°14'04.13002"	18°45'40.61002"	524714.088	2074430.277	Road 5
194	R153	81°14'04.13002"	18°45'41.19001"	524714.065	2074448.103	Road 5
195	R154	81°14'04.17998"	18°45'41.80000"	524715.503	2074466.852	Road 5
196	R155	81°14'04.49002"	18°45'42.27998"	524724.561	2074481.617	Road 5
197	R156	81°14'05.43001"	18°45'42.43000"	524752.075	2074486.264	Road 5
198	R157	81°14'06.07999"	18°45'42.67001"	524771.096	2074493.666	Road 5
199	R158	81°14'06.55001"	18°45'42.77002"	524784.852	2074496.757	Road 5
200	R159	81°14'07.00001"	18°45'42.77999"	524798.027	2074497.081	Road 5
201	R160	81°14'07.32001"	18°45'42.52000"	524807.407	2074489.103	Road 5
202	R161	81°14'07.59001"	18°45'41.90000"	524815.337	2074470.058	Road 5
203	R162	81°14'07.75000"	18°45'41.33002"	524820.044	2074452.546	Road 5
204	R163	81°14'07.84000"	18°45'40.74001"	524822.703	2074434.415	Road 5
205	R164	81°14'07.78999"	18°45'40.51001"	524821.248	2074427.344	Road 5
206	R165	81°14'08.14999"	18°45'39.67999"	524831.822	2074401.848	Road 5
207	R166	81°14'10.11001"	18°45'36.74002"	524889.327	2074311.564	Road 5
208	R167	81°14'10.47998"	18°45'36.05000"	524900.187	2074290.371	Road 5
209	R168	81°14'10.77000"	18°45'34.62998"	524908.736	2074246.738	Road 5
210	R169	81°14'10.79999"	18°45'33.50999"	524909.659	2074212.316	Road 5
211	R170	81°14'10.79002"	18°45'32.14001"	524909.423	2074170.209	Road 5
212	R171	81°14'10.74001"	18°45'31.37000"	524907.991	2074146.541	Road 5
213	R172	81°14'10.61999"	18°45'30.93998"	524904.494	2074133.32	Road 5
214	R173	81°14'10.61002"	18°45'30.78000"	524904.209	2074128.403	Road 5
215	R174	81°14'10.61999"	18°45'30.76999"	524904.501	2074128.095	Road 5
216	R175	81°14'10.63000"	18°45'30.76999"	524904.794	2074128.096	Road 5
217	R176	81°14'10.73000"	18°45'30.94999"	524907.715	2074133.632	Road 5
218	R177	81°14'10.86000"	18°45'31.54000"	524911.497	2074151.771	Road 5
219	R178	81°14'11.28001"	18°45'33.04001"	524923.733	2074197.89	Road 5
220	R179	81°14'11.59001"	18°45'34.60000"	524932.745	2074245.848	Road 5
221	R180	81°14'11.64998"	18°45'35.03999"	524934.483	2074259.373	Road 5
222	R181	81°14'11.78999"	18°45'35.43001"	524938.566	2074271.366	Road 5
223	R182	81°14'12.21000"	18°45'35.55000"	524950.858	2074275.07	Road 5
224	R183	81°14'12.59999"	18°45'35.15000"	524962.293	2074262.792	Road 5
225	R184	81°14'12.73999"	18°45'34.60000"	524966.414	2074245.893	Road 5
226	R185	81°14'13.35001"	18°45'31.34999"	524984.407	2074146.028	Road 5
227	R186	81°14'13.53001"	18°45'30.84001"	524989.698	2074130.361	Road 5
228	R187	81°14'13.66001"	18°45'30.82000"	524993.505	2074129.751	Road 5
229	R188	81°14'13.72999"	18°45'30.94999"	524995.549	2074133.749	Road 5
230	R189	81°14'13.89998"	18°45'33.00001"	525000.442	2074196.762	Road 5
231	R190	81°14'14.12999"	18°45'33.49001"	525007.156	2074211.831	Road 5
232	R191	81°14'14.78000"	18°45'33.45998"	525026.189	2074210.934	Road 5
233	R192	81°14'15.18000"	18°45'32.95001"	525037.921	2074195.276	Road 5
234	R193	81°14'15.72000"	18°45'31.56998"	525053.787	2074152.882	Road 5
235	R194	81°14'15.87998"	18°45'31.46000"	525058.476	2074149.508	Road 5
236	R195	81°14'15.92002"	18°45'31.47001"	525059.647	2074149.817	Road 5

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
237	R196	81°14'15.88999"	18°45'31.88002"	525058.752	2074162.417	Road 5
238	R197	81°14'15.58000"	18°45'33.01999"	525049.629	2074197.442	Road 5
239	R198	81°14'15.45000"	18°45'33.91999"	525045.786	2074225.098	Road 5
240	R199	81°14'15.42998"	18°45'34.75001"	525045.166	2074250.608	Road 5
241	R200	81°14'15.42001"	18°45'34.89001"	525044.868	2074254.911	Road 5
242	R201	81°14'15.64001"	18°45'35.57999"	525051.281	2074276.126	Road 5
243	R202	81°14'15.77000"	18°45'36.01001"	525055.069	2074289.347	Road 5
244	R203	81°14'16.51999"	18°45'36.69998"	525076.999	2074310.583	Road 5
245	R204	81°14'17.41999"	18°45'36.92999"	525103.34	2074317.687	Road 5
246	R205	81°14'18.55000"	18°45'36.78001"	525136.43	2074313.122	Road 5
247	R206	81°14'19.30999"	18°45'36.41000"	525158.696	2074301.78	Road 5
248	R207	81°14'19.74001"	18°45'35.78000"	525171.312	2074282.434	Road 5
249	R208	81°14'20.27000"	18°45'34.13002"	525186.897	2074231.742	Road 5
250	R209	81°14'20.49000"	18°45'33.76001"	525193.354	2074220.379	Road 5
251	R210	81°14'20.59001"	18°45'33.05002"	525196.311	2074198.561	Road 5
252	R211	81°14'20.54000"	18°45'32.24999"	525194.88	2074173.97	Road 5
253	R212	81°14'20.55998"	18°45'31.65998"	525195.489	2074155.837	Road 5
254	R213	81°14'20.65999"	18°45'31.50000"	525198.424	2074150.924	Road 5
255	R214	81°14'20.71000"	18°45'31.48999"	525199.888	2074150.619	Road 5
256	R215	81°14'20.91998"	18°45'31.61999"	525206.031	2074154.622	Road 5
257	R216	81°14'21.23999"	18°45'32.26000"	525215.374	2074174.305	Road 5
258	R217	81°14'21.68002"	18°45'32.76000"	525228.236	2074189.69	Road 5
259	R218	81°14'22.15000"	18°45'32.91001"	525241.99	2074194.319	Road 5
260	R219	81°14'23.01000"	18°45'32.78999"	525267.175	2074190.664	Road 5
261	R220	81°14'22.79000"	18°45'32.36000"	525260.751	2074177.44	Road 5
262	R221	81°14'22.20000"	18°45'32.44000"	525243.474	2074179.876	Road 5
263	R222	81°14'21.95999"	18°45'32.37001"	525236.45	2074177.715	Road 5
264	R223	81°14'21.63998"	18°45'32.01001"	525227.095	2074166.638	Road 5
265	R224	81°14'21.30000"	18°45'31.29998"	525217.171	2074144.802	Road 5
266	R225	81°14'20.94000"	18°45'31.09000"	525206.639	2074138.334	Road 5
267	R226	81°14'20.78002"	18°45'30.98999"	525201.959	2074135.254	Road 5
268	R227	81°14'20.36000"	18°45'31.11998"	525189.657	2074139.233	Road 5
269	R228	81°14'20.08000"	18°45'31.52002"	525181.442	2074151.517	Road 5
270	R229	81°14'20.06002"	18°45'32.26000"	525180.827	2074174.259	Road 5
271	R230	81°14'20.10998"	18°45'32.96002"	525182.261	2074195.776	Road 5
272	R231	81°14'20.01998"	18°45'33.61000"	525179.599	2074215.75	Road 5
273	R232	81°14'19.83001"	18°45'33.95002"	525174.023	2074226.193	Road 5
274	R233	81°14'19.29998"	18°45'35.57999"	525158.437	2074276.269	Road 5
275	R234	81°14'18.97001"	18°45'36.06001"	525148.757	2074291.01	Road 5
276	R235	81°14'18.39998"	18°45'36.33998"	525132.056	2074299.592	Road 5
277	R236	81°14'17.45002"	18°45'36.47002"	525104.238	2074303.551	Road 5
278	R237	81°14'16.76000"	18°45'36.29002"	525084.043	2074297.992	Road 5
279	R238	81°14'16.19002"	18°45'35.75999"	525067.377	2074281.679	Road 5
280	R239	81°14'15.99000"	18°45'35.12002"	525061.547	2074262.002	Road 5
281	R240	81°14'15.90000"	18°45'34.83000"	525058.924	2074253.085	Road 5
282	R241	81°14'15.92002"	18°45'34.35001"	525059.529	2074238.333	Road 5

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
283	R242	81°14'15.92999"	18°45'33.95999"	525059.837	2074226.346	Road 5
284	R243	81°14'16.05001"	18°45'33.10999"	525063.386	2074200.227	Road 5
285	R244	81°14'16.37002"	18°45'31.96001"	525072.803	2074164.894	Road 5
286	R245	81°14'16.41998"	18°45'31.16999"	525074.298	2074140.615	Road 5
287	R246	81°14'15.82001"	18°45'30.93998"	525056.741	2074133.523	Road 5
288	R247	81°14'15.32000"	18°45'31.28000"	525042.088	2074143.954	Road 5
289	R248	81°14'15.02002"	18°45'32.01998"	525033.275	2074166.685	Road 5
290	R249	81°14'14.75002"	18°45'32.73001"	525025.34	2074188.497	Road 5
291	R250	81°14'14.52998"	18°45'33.01999"	525018.886	2074197.401	Road 5
292	R251	81°14'14.43001"	18°45'33.01999"	525015.959	2074197.397	Road 5
293	R252	81°14'14.37000"	18°45'32.89000"	525014.208	2074193.399	Road 5
294	R253	81°14'14.20001"	18°45'30.82000"	525009.315	2074129.772	Road 5
295	R254	81°14'13.93001"	18°45'30.31999"	525001.431	2074114.393	Road 5
296	R255	81°14'13.17998"	18°45'30.44002"	524979.467	2074118.053	Road 5
297	R256	81°14'12.88000"	18°45'31.23000"	524970.651	2074142.322	Road 5
298	R257	81°14'12.27001"	18°45'34.51000"	524952.658	2074243.108	Road 5
299	R258	81°14'12.16000"	18°45'34.93001"	524949.42	2074256.013	Road 5
300	R259	81°14'12.13001"	18°45'34.96000"	524948.541	2074256.933	Road 5
301	R260	81°14'12.10999"	18°45'34.93001"	524947.956	2074256.011	Road 5
302	R261	81°14'12.05999"	18°45'34.53001"	524946.508	2074243.715	Road 5
303	R262	81°14'11.74999"	18°45'32.94000"	524937.497	2074194.834	Road 5
304	R263	81°14'11.33002"	18°45'31.43999"	524925.262	2074148.715	Road 5
305	R264	81°14'11.19001"	18°45'30.79001"	524921.189	2074128.733	Road 5
306	R265	81°14'10.92998"	18°45'30.34001"	524913.595	2074114.892	Road 5
307	R266	81°14'10.77000"	18°45'30.33000"	524908.911	2074114.578	Road 5
308	R267	81°14'10.12999"	18°45'30.76999"	524890.155	2074128.076	Road 5
309	R268	81°14'10.15001"	18°45'31.01000"	524890.731	2074135.454	Road 5
310	R269	81°14'10.25999"	18°45'31.43999"	524893.934	2074148.674	Road 5
311	R270	81°14'10.32000"	18°45'32.15999"	524895.661	2074170.805	Road 5
312	R271	81°14'10.33001"	18°45'33.50999"	524895.899	2074212.298	Road 5
313	R272	81°14'10.29998"	18°45'34.58002"	524894.977	2074245.184	Road 5
314	R273	81°14'10.02998"	18°45'35.89999"	524887.018	2074285.743	Road 5
315	R274	81°14'09.70001"	18°45'36.50000"	524877.332	2074304.171	Road 5
316	R275	81°14'09.07001"	18°45'37.37999"	524858.851	2074331.193	Road 5
317	R276	81°14'07.73002"	18°45'39.47000"	524819.534	2074395.377	Road 5
318	R277	81°14'07.28999"	18°45'40.46000"	524806.611	2074425.788	Road 5
319	R278	81°14'07.36001"	18°45'40.75999"	524808.649	2074435.011	Road 5
320	R279	81°14'07.28002"	18°45'41.24002"	524806.288	2074449.761	Road 5
321	R280	81°14'07.14001"	18°45'41.76000"	524802.167	2074465.737	Road 5
322	R281	81°14'06.92002"	18°45'42.25000"	524795.707	2074480.789	Road 5
323	R282	81°14'06.83002"	18°45'42.32002"	524793.069	2074482.938	Road 5
324	R283	81°14'06.60998"	18°45'42.32002"	524786.627	2074482.929	Road 5
325	R284	81°14'06.22000"	18°45'42.23002"	524775.212	2074480.148	Road 5
326	R285	81°14'05.56001"	18°45'41.99000"	524755.899	2074472.746	Road 5
327	R286	81°14'04.78000"	18°45'41.86001"	524733.068	2074468.72	Road 5
328	R287	81°14'04.65000"	18°45'41.64998"	524729.27	2074462.26	Road 5

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
329	R288	81°14'04.61000"	18°45'41.17000"	524728.119	2074447.506	Road 5
330	R289	81°14'04.60000"	18°45'40.68000"	524727.845	2074432.446	Road 5
331	R290	81°14'04.76002"	18°45'40.12999"	524732.553	2074415.547	Road 5
332	R291	81°14'05.08999"	18°45'39.65000"	524742.233	2074400.808	Road 5
333	R292	81°14'05.52998"	18°45'39.29000"	524755.13	2074389.76	Road 5
334	R293	81°14'06.19001"	18°45'38.93000"	524774.468	2074378.721	Road 5
335	R294	81°14'06.58000"	18°45'38.62001"	524785.899	2074369.208	Road 5
336	R295	81°14'06.51998"	18°45'38.11000"	524784.163	2074353.531	Road 5
337	R296	81°14'06.24998"	18°45'37.77001"	524776.271	2074343.071	Road 5
338	R297	81°14'05.79998"	18°45'37.78999"	524763.095	2074343.668	Road 5
339	R298	81°14'04.40002"	18°45'38.00999"	524722.098	2074350.375	Road 5
340	R299	81°14'04.04999"	18°45'37.95001"	524711.853	2074348.519	Road 5
341	R300	81°14'03.01999"	18°45'37.95001"	524681.697	2074348.479	Road 5
342	R301	81°14'02.20999"	18°45'38.18002"	524657.972	2074355.517	Road 5
343	R302	81°14'01.34999"	18°45'38.57000"	524632.778	2074367.47	Road 5
344	R303	81°14'00.53002"	18°45'39.04999"	524608.751	2074382.191	Road 5
345	R304	81°13'59.94998"	18°45'39.53002"	524591.75	2074396.922	Road 5
346	R305	81°13'59.50999"	18°45'40.37000"	524578.834	2074422.722	Road 5
347	R306	81°13'58.60999"	18°45'40.70999"	524552.471	2074433.137	Road 5
348	R307	81°13'58.14001"	18°45'40.99000"	524538.699	2074441.725	Road 5
349	R308	81°13'57.70999"	18°45'41.05001"	524526.107	2074443.553	Road 5
350	R309	81°13'57.29002"	18°45'40.90000"	524513.817	2074438.927	Road 5
351	R310	81°13'57.07999"	18°45'40.75999"	524507.674	2074434.616	Road 5
352	R311	81°13'56.56001"	18°45'40.43999"	524492.463	2074424.76	Road 5
353	R312	81°13'56.29001"	18°45'40.29998"	524484.563	2074420.447	Road 5
354	R133	81°13'58.36001"	18°45'41.60999"	524545.115	2074460.789	Road 6
355	R134	81°13'58.90001"	18°45'41.29999"	524560.938	2074451.282	Road 6
356	R135	81°13'59.23999"	18°45'41.17000"	524570.897	2074447.3	Road 6
357	R199	81°14'15.42998"	18°45'34.75001"	525045.166	2074250.608	Road 6
358	R200	81°14'15.42001"	18°45'34.89001"	525044.868	2074254.911	Road 6
359	R201	81°14'15.64001"	18°45'35.57999"	525051.281	2074276.126	Road 6
360	R313	81°13'59.80001"	18°45'41.32001"	524587.287	2074451.932	Road 6
361	R314	81°14'01.52999"	18°45'42.00001"	524637.909	2074472.898	Road 6
362	R315	81°14'02.27000"	18°45'43.58002"	524659.512	2074521.488	Road 6
363	R316	81°14'03.12000"	18°45'45.42001"	524684.323	2074578.073	Road 6
364	R317	81°14'03.98000"	18°45'45.52999"	524709.497	2074581.486	Road 6
365	R318	81°14'05.16998"	18°45'44.89999"	524744.362	2074562.169	Road 6
366	R319	81°14'07.10002"	18°45'44.82000"	524800.872	2074559.785	Road 6
367	R320	81°14'10.24001"	18°45'49.11998"	524892.628	2074692.066	Road 6
368	R321	81°14'12.13001"	18°45'49.74998"	524947.937	2074711.503	Road 6
369	R322	81°14'13.99999"	18°45'50.54000"	525002.652	2074735.857	Road 6
370	R323	81°14'15.59000"	18°45'52.12001"	525049.139	2074784.48	Road 6
371	R324	81°14'16.30000"	18°45'53.16001"	525069.882	2074816.472	Road 6
372	R325	81°14'16.49000"	18°45'52.67002"	525075.465	2074801.42	Road 6
373	R326	81°14'16.23001"	18°45'51.73999"	525067.892	2074772.825	Road 6
374	R327	81°14'15.07999"	18°45'49.95000"	525034.296	2074717.765	Road 6

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
375	R328	81°14'13.65000"	18°45'49.20998"	524992.46	2074694.965	Road 6
376	R329	81°14'11.55001"	18°45'48.12001"	524931.022	2074661.383	Road 6
377	R330	81°14'10.75999"	18°45'45.28001"	524908.008	2074574.065	Road 6
378	R331	81°14'10.51001"	18°45'43.06000"	524900.78	2074505.823	Road 6
379	R332	81°14'11.11999"	18°45'41.14001"	524918.717	2074446.836	Road 6
380	R333	81°14'12.00001"	18°45'38.53001"	524944.589	2074366.652	Road 6
381	R334	81°14'14.14000"	18°45'36.41000"	525007.33	2074301.578	Road 6
382	R335	81°14'14.66002"	18°45'36.83002"	525022.537	2074314.507	Road 6
383	R336	81°14'12.59999"	18°45'38.86999"	524962.141	2074377.125	Road 6
384	R337	81°14'11.77001"	18°45'41.33002"	524937.74	2074452.702	Road 6
385	R338	81°14'11.19998"	18°45'43.12001"	524920.978	2074507.695	Road 6
386	R339	81°14'11.42999"	18°45'45.15998"	524927.629	2074570.402	Road 6
387	R340	81°14'12.14002"	18°45'47.67998"	524948.314	2074647.882	Road 6
388	R341	81°14'13.97000"	18°45'48.64000"	525001.852	2074677.459	Road 6
389	R342	81°14'15.56999"	18°45'49.47001"	525048.661	2074703.032	Road 6
390	R343	81°14'16.86001"	18°45'51.48000"	525086.347	2074764.859	Road 6
391	R344	81°14'17.21000"	18°45'52.71001"	525096.543	2074802.677	Road 6
392	R345	81°14'16.81001"	18°45'53.70998"	525084.792	2074833.396	Road 6
393	R346	81°14'16.37002"	18°45'53.96000"	525071.9	2074841.063	Road 6
394	R347	81°14'15.86000"	18°45'53.70998"	525056.978	2074833.358	Road 6
395	R348	81°14'15.05000"	18°45'52.52000"	525033.313	2074796.753	Road 6
396	R349	81°14'13.60000"	18°45'51.09001"	524990.919	2074752.745	Road 6
397	R350	81°14'11.87999"	18°45'50.36000"	524940.592	2074730.242	Road 6
398	R351	81°14'09.80999"	18°45'49.65998"	524880.016	2074708.646	Road 6
399	R352	81°14'06.74999"	18°45'45.49000"	524790.597	2074580.364	Road 6
400	R353	81°14'05.35999"	18°45'45.55001"	524749.899	2074582.154	Road 6
401	R354	81°14'04.11000"	18°45'46.21000"	524713.276	2074602.391	Road 6
402	R355	81°14'02.73998"	18°45'46.01999"	524673.173	2074596.498	Road 6
403	R356	81°14'02.62000"	18°45'45.92999"	524669.664	2074593.727	Road 6
404	R357	81°14'02.45000"	18°45'45.56999"	524664.701	2074582.656	Road 6
405	R358	81°14'01.65001"	18°45'43.84001"	524641.349	2074529.455	Road 6
406	R359	81°14'01.02001"	18°45'42.50002"	524622.958	2074488.246	Road 6
407	R360	81°13'59.58001"	18°45'41.92999"	524580.821	2074470.671	Road 6
408	R224	81°14'21.30000"	18°45'31.29998"	525217.171	2074144.802	Road 7
409	R225	81°14'20.94000"	18°45'31.09000"	525206.639	2074138.334	Road 7
410	R226	81°14'20.78002"	18°45'30.98999"	525201.959	2074135.254	Road 7
411	R239	81°14'15.99000"	18°45'35.12002"	525061.547	2074262.002	Road 7
412	R240	81°14'15.90000"	18°45'34.83000"	525058.924	2074253.085	Road 7
413	R241	81°14'15.92002"	18°45'34.35001"	525059.529	2074238.333	Road 7
414	R361	81°14'18.52001"	18°45'24.98000"	525136.037	2073950.449	Road 7
415	R362	81°14'21.30000"	18°45'30.53999"	525217.202	2074121.444	Road 7
416	R363	81°14'21.34000"	18°45'30.84998"	525218.36	2074130.973	Road 7
417	R364	81°14'20.83999"	18°45'30.44999"	525203.737	2074118.659	Road 7
418	R365	81°14'20.24002"	18°45'29.22998"	525186.221	2074081.139	Road 7
419	R366	81°14'19.59000"	18°45'27.90000"	525167.245	2074040.237	Road 7
420	R367	81°14'18.44999"	18°45'26.97998"	525133.905	2074011.915	Road 7

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
421	R368	81°14'17.13001"	18°45'27.19001"	525095.25	2074018.319	Road 7
422	R369	81°14'16.41998"	18°45'27.88999"	525074.433	2074039.805	Road 7
423	R370	81°14'16.94000"	18°45'29.45002"	525089.594	2074087.772	Road 7
424	R371	81°14'17.67001"	18°45'30.88001"	525110.908	2074131.752	Road 7
425	R372	81°14'17.52000"	18°45'32.27000"	525106.459	2074174.467	Road 7
426	R373	81°14'16.91002"	18°45'33.77999"	525088.538	2074220.852	Road 7
427	R374	81°14'16.26000"	18°45'34.78000"	525069.466	2074251.562	Road 7
428	R375	81°14'16.44000"	18°45'33.54001"	525074.787	2074213.458	Road 7
429	R376	81°14'16.95998"	18°45'32.17000"	525090.067	2074171.371	Road 7
430	R377	81°14'17.12000"	18°45'30.92000"	525094.804	2074132.959	Road 7
431	R378	81°14'16.53000"	18°45'29.63999"	525077.582	2074093.595	Road 7
432	R379	81°14'15.92999"	18°45'27.74999"	525060.092	2074035.483	Road 7
433	R380	81°14'16.91999"	18°45'26.75002"	525089.119	2074004.787	Road 7
434	R381	81°14'18.49999"	18°45'26.48002"	525135.39	2073996.551	Road 7
435	R382	81°14'18.83000"	18°45'26.68000"	525145.044	2074002.71	Road 7
436	R383	81°14'18.42000"	18°45'25.84001"	525133.074	2073976.877	Road 7
437	R384	81°14'18.12001"	18°45'25.26001"	525124.315	2073959.039	Road 7
438	R385	81°14'24.41000"	18°45'32.19001"	525308.189	2074172.279	Road 8
439	R386	81°14'25.23001"	18°45'33.80000"	525332.13	2074221.795	Road 8
440	R387	81°14'25.41001"	18°45'33.34000"	525337.42	2074207.664	Road 8
441	R388	81°14'25.41001"	18°45'32.92999"	525337.437	2074195.062	Road 8
442	R389	81°14'25.23001"	18°45'32.54000"	525332.183	2074183.069	Road 8
443	R390	81°14'24.91001"	18°45'32.36000"	525322.821	2074177.524	Road 8
444	R391	81°14'23.84002"	18°45'34.44001"	525291.408	2074241.41	Road 9
445	R392	81°14'22.27999"	18°45'35.11001"	525245.705	2074261.941	Road 9
446	R393	81°14'21.95002"	18°45'35.41000"	525236.032	2074271.148	Road 9
447	R394	81°14'21.86999"	18°45'35.86000"	525233.67	2074284.976	Road 9
448	R395	81°14'22.04002"	18°45'36.50000"	525238.622	2074304.653	Road 9
449	R396	81°14'22.42000"	18°45'37.06999"	525249.724	2074322.187	Road 9
450	R397	81°14'22.98998"	18°45'37.54001"	525266.392	2074336.655	Road 9
451	R398	81°14'23.74001"	18°45'38.05999"	525288.33	2074352.666	Road 9
452	R399	81°14'23.70998"	18°45'38.72002"	525287.423	2074372.951	Road 9
453	R400	81°14'23.07001"	18°45'39.39001"	525268.659	2074393.518	Road 9
454	R401	81°14'22.83000"	18°45'39.76999"	525261.616	2074405.187	Road 9
455	R402	81°14'22.79000"	18°45'40.07002"	525260.433	2074414.407	Road 9
456	R403	81°14'22.80998"	18°45'40.11001"	525261.016	2074415.637	Road 9
457	R404	81°14'23.25001"	18°45'40.27000"	525273.892	2074420.571	Road 9
458	R405	81°14'24.11999"	18°45'40.34002"	525299.36	2074422.758	Road 9
459	R406	81°14'25.19002"	18°45'40.63000"	525330.676	2074431.712	Road 9
460	R407	81°14'25.73999"	18°45'41.14001"	525346.757	2074447.409	Road 9
461	R408	81°14'25.95001"	18°45'42.00998"	525352.87	2074474.156	Road 9
462	R409	81°14'26.09999"	18°45'43.58002"	525357.196	2074522.417	Road 9
463	R410	81°14'26.13001"	18°45'47.13001"	525357.927	2074631.527	Road 9
464	R411	81°14'26.04001"	18°45'48.31999"	525355.243	2074668.097	Road 9
465	R412	81°14'26.09002"	18°45'49.16002"	525356.672	2074693.918	Road 9
466	R413	81°14'26.31998"	18°45'49.52002"	525363.39	2074704.991	Road 9

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
467	R414	81°14'26.72999"	18°45'49.55000"	525375.393	2074705.929	Road 9
468	R415	81°14'26.88000"	18°45'49.11001"	525379.803	2074692.412	Road 9
469	R416	81°14'26.90999"	18°45'43.94002"	525380.896	2074533.514	Road 9
470	R417	81°14'26.63002"	18°45'42.32999"	525372.766	2074484.018	Road 9
471	R418	81°14'26.14999"	18°45'41.05001"	525358.765	2074444.659	Road 9
472	R419	81°14'25.10999"	18°45'39.74000"	525328.37	2074404.355	Road 9
473	R420	81°14'25.10999"	18°45'38.45002"	525328.424	2074364.708	Road 9
474	R421	81°14'25.73002"	18°45'38.18002"	525346.588	2074356.434	Road 9
475	R422	81°14'26.02000"	18°45'38.76001"	525355.054	2074374.271	Road 9
476	R423	81°14'25.80000"	18°45'38.85998"	525348.609	2074377.335	Road 9
477	R424	81°14'25.80000"	18°45'39.52001"	525348.581	2074397.621	Road 9
478	R425	81°14'26.76998"	18°45'40.75999"	525376.929	2074435.77	Road 9
479	R426	81°14'27.29000"	18°45'42.17000"	525392.095	2074479.127	Road 9
480	R427	81°14'27.60000"	18°45'43.89998"	525401.099	2074532.311	Road 9
481	R428	81°14'27.56000"	18°45'49.30999"	525399.703	2074698.585	Road 9
482	R429	81°14'27.42000"	18°45'50.06002"	525395.573	2074721.632	Road 9
483	R430	81°14'26.85001"	18°45'50.28998"	525378.876	2074728.677	Road 9
484	R431	81°14'25.90001"	18°45'50.09000"	525351.071	2074722.493	Road 9
485	R432	81°14'25.41998"	18°45'49.38998"	525337.046	2074700.959	Road 9
486	R433	81°14'25.36001"	18°45'48.31999"	525335.334	2074668.071	Road 9
487	R434	81°14'25.45001"	18°45'47.11000"	525338.019	2074630.885	Road 9
488	R435	81°14'25.27001"	18°45'42.10999"	525332.957	2074477.203	Road 9
489	R436	81°14'25.12000"	18°45'41.46998"	525328.591	2074457.527	Road 9
490	R437	81°14'24.83002"	18°45'41.20999"	525320.112	2074449.524	Road 9
491	R438	81°14'24.13000"	18°45'40.99000"	525299.626	2074442.735	Road 9
492	R439	81°14'23.10000"	18°45'40.91000"	525269.474	2074440.236	Road 9
493	R440	81°14'22.29000"	18°45'40.61999"	525245.771	2074431.29	Road 9
494	R441	81°14'22.09999"	18°45'40.16999"	525240.226	2074417.452	Road 9
495	R442	81°14'22.17001"	18°45'39.56000"	525242.302	2074398.707	Road 9
496	R443	81°14'22.52000"	18°45'38.99999"	525252.572	2074381.509	Road 9
497	R444	81°14'23.03999"	18°45'38.45002"	525267.818	2074364.626	Road 9
498	R445	81°14'23.05000"	18°45'38.38000"	525268.114	2074362.474	Road 9
499	R446	81°14'22.56000"	18°45'38.04998"	525253.782	2074352.312	Road 9
500	R447	81°14'21.86999"	18°45'37.45001"	525233.605	2074333.845	Road 9
501	R448	81°14'21.40001"	18°45'36.76000"	525219.873	2074312.619	Road 9
502	R449	81°14'21.17000"	18°45'35.88001"	525213.175	2074285.564	Road 9
503	R450	81°14'21.31001"	18°45'35.08999"	525217.307	2074261.288	Road 9
504	R451	81°14'21.89000"	18°45'34.54999"	525234.311	2074244.714	Road 9
505	R452	81°14'22.65000"	18°45'34.25000"	525256.574	2074235.524	Road 9
506	R453	81°14'23.53999"	18°45'33.84000"	525282.648	2074222.957	Road 9
507	R454	81°14'36.01000"	18°45'37.37999"	525647.597	2074332.254	Road 10
508	R455	81°14'35.03000"	18°45'39.80002"	525618.804	2074406.594	Road 10
509	R456	81°14'33.69001"	18°45'40.92998"	525579.524	2074441.27	Road 10
510	R457	81°14'32.42000"	18°45'42.18998"	525542.289	2074479.945	Road 10
511	R458	81°14'32.29001"	18°45'42.76001"	525538.459	2074497.46	Road 10
512	R459	81°14'32.43998"	18°45'43.88000"	525542.803	2074531.889	Road 10

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
513	R460	81°14'33.94000"	18°45'45.14000"	525586.667	2074570.675	Road 10
514	R461	81°14'35.47000"	18°45'45.78998"	525631.434	2074590.713	Road 10
515	R462	81°14'37.00000"	18°45'47.85001"	525676.142	2074654.089	Road 10
516	R463	81°14'37.00000"	18°45'50.89000"	525676.014	2074747.523	Road 10
517	R464	81°14'37.77000"	18°45'54.01001"	525698.427	2074843.447	Road 10
518	R465	81°14'38.91001"	18°45'57.67999"	525731.648	2074956.289	Road 10
519	R466	81°14'38.29999"	18°45'57.53002"	525713.795	2074951.655	Road 10
520	R467	81°14'37.24001"	18°45'54.15998"	525682.904	2074848.035	Road 10
521	R468	81°14'36.46000"	18°45'50.95001"	525660.202	2074749.345	Road 10
522	R469	81°14'36.44999"	18°45'48.01000"	525660.033	2074658.984	Road 10
523	R470	81°14'35.11000"	18°45'46.21000"	525620.877	2074603.607	Road 10
524	R471	81°14'33.64001"	18°45'45.59000"	525577.865	2074584.493	Road 10
525	R472	81°14'31.92000"	18°45'44.14000"	525527.568	2074539.859	Road 10
526	R473	81°14'31.72999"	18°45'42.73999"	525522.064	2074496.822	Road 10
527	R474	81°14'31.90999"	18°45'41.92999"	525527.368	2074471.934	Road 10
528	R475	81°14'33.29002"	18°45'40.56998"	525567.828	2074430.189	Road 10
529	R476	81°14'34.50998"	18°45'39.47000"	525603.592	2074396.43	Road 10
530	R477	81°14'35.22001"	18°45'37.63001"	525624.458	2074339.906	Road 10
531	R454	81°14'36.01000"	18°45'37.37999"	525647.597	2074332.254	Road 11
532	R477	81°14'35.22001"	18°45'37.63001"	525624.458	2074339.906	Road 11
533	R478	81°14'27.44002"	18°45'38.18002"	525396.653	2074356.501	Road 11
534	R479	81°14'28.38998"	18°45'36.36000"	525424.542	2074300.601	Road 11
535	R480	81°14'28.57999"	18°45'34.62998"	525430.177	2074247.437	Road 11
536	R481	81°14'28.99000"	18°45'33.91999"	525442.21	2074225.631	Road 11
537	R482	81°14'29.29999"	18°45'33.81998"	525451.291	2074222.57	Road 11
538	R483	81°14'30.37999"	18°45'33.81998"	525482.911	2074222.613	Road 11
539	R484	81°14'31.52000"	18°45'35.16998"	525516.232	2074264.15	Road 11
540	R485	81°14'31.85999"	18°45'38.95999"	525526.028	2074380.649	Road 11
541	R486	81°14'32.57002"	18°45'39.40999"	525546.797	2074394.508	Road 11
542	R487	81°14'33.38002"	18°45'39.40999"	525570.512	2074394.541	Road 11
543	R488	81°14'34.10999"	18°45'39.17999"	525591.894	2074387.501	Road 11
544	R489	81°14'34.30000"	18°45'38.29000"	525597.494	2074360.154	Road 11
545	R490	81°14'34.68001"	18°45'37.81001"	525608.64	2074345.417	Road 11
546	R491	81°14'38.40000"	18°45'37.14001"	525717.581	2074324.974	Road 11
547	R492	81°14'39.46999"	18°45'36.63000"	525748.93	2074309.341	Road 11
548	R493	81°14'43.05998"	18°45'33.39000"	525854.175	2074209.905	Road 11
549	R494	81°14'43.46002"	18°45'33.05999"	525865.901	2074199.778	Road 11
550	R495	81°14'43.64999"	18°45'33.04001"	525871.464	2074199.172	Road 11
551	R496	81°14'43.85000"	18°45'33.12000"	525877.316	2074201.638	Road 11
552	R497	81°14'44.85001"	18°45'33.86002"	525906.563	2074224.423	Road 11
553	R498	81°14'45.79001"	18°45'34.26998"	525934.067	2074237.061	Road 11
554	R499	81°14'47.55001"	18°45'34.49002"	525985.587	2074243.895	Road 11
555	R500	81°14'48.86002"	18°45'34.70000"	526023.933	2074250.402	Road 11
556	R501	81°14'52.03000"	18°45'35.75999"	526116.698	2074283.11	Road 11
557	R502	81°14'54.48001"	18°45'36.67000"	526188.391	2074311.179	Road 11
558	R503	81°14'57.09998"	18°45'37.99001"	526265.041	2074351.856	Road 11

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
559	R504	81°14'58.39001"	18°45'38.71001"	526302.779	2074374.038	Road 11
560	R505	81°15'00.33998"	18°45'38.90002"	526359.862	2074379.958	Road 11
561	R506	81°15'01.77001"	18°45'38.85998"	526401.732	2074378.787	Road 11
562	R507	81°15'03.44002"	18°45'39.03998"	526450.618	2074384.388	Road 11
563	R508	81°15'04.19000"	18°45'39.21001"	526472.569	2074389.644	Road 11
564	R509	81°15'04.83998"	18°45'39.49999"	526491.586	2074398.584	Road 11
565	R510	81°15'05.87999"	18°45'39.89999"	526522.018	2074410.921	Road 11
566	R511	81°15'07.06000"	18°45'40.16999"	526556.554	2074419.268	Road 11
567	R512	81°15'08.34001"	18°45'40.45000"	526594.018	2074427.927	Road 11
568	R513	81°15'09.95000"	18°45'40.74998"	526641.142	2074437.214	Road 11
569	R514	81°15'11.18999"	18°45'40.96001"	526677.437	2074443.721	Road 11
570	R515	81°15'12.56000"	18°45'40.99000"	526717.547	2074444.699	Road 11
571	R516	81°15'14.95001"	18°45'40.83998"	526787.527	2074440.188	Road 11
572	R517	81°15'17.97998"	18°45'41.89000"	526876.192	2074472.587	Road 11
573	R518	81°15'18.85000"	18°45'42.26000"	526901.647	2074483.996	Road 11
574	R519	81°15'20.11000"	18°45'43.16000"	526938.497	2074511.71	Road 11
575	R520	81°15'21.44999"	18°45'43.16000"	526977.729	2074511.767	Road 11
576	R521	81°15'22.34999"	18°45'42.72001"	527004.099	2074498.281	Road 11
577	R522	81°15'22.92001"	18°45'42.45001"	527020.799	2074490.007	Road 11
578	R523	81°15'24.97000"	18°45'39.08002"	527080.968	2074386.517	Road 11
579	R524	81°15'26.17999"	18°45'38.21000"	527116.432	2074359.828	Road 11
580	R525	81°15'26.84999"	18°45'37.95998"	527136.059	2074352.172	Road 11
581	R526	81°15'27.33001"	18°45'38.07000"	527150.109	2074355.574	Road 11
582	R527	81°15'27.85000"	18°45'38.44001"	527165.316	2074366.968	Road 11
583	R528	81°15'29.13998"	18°45'41.36000"	527202.954	2074456.768	Road 11
584	R529	81°15'29.85998"	18°45'42.21000"	527223.996	2074482.924	Road 11
585	R530	81°15'29.94998"	18°45'42.44000"	527226.621	2074489.997	Road 11
586	R531	81°15'30.62999"	18°45'42.68999"	527246.519	2074497.709	Road 11
587	R532	81°15'30.55000"	18°45'42.21000"	527244.198	2074482.953	Road 11
588	R533	81°15'30.31999"	18°45'41.71000"	527237.487	2074467.576	Road 11
589	R534	81°15'29.72999"	18°45'41.01998"	527220.243	2074446.343	Road 11
590	R535	81°15'28.41001"	18°45'38.03000"	527181.731	2074354.39	Road 11
591	R536	81°15'27.63000"	18°45'37.46999"	527158.918	2074337.145	Road 11
592	R537	81°15'26.79998"	18°45'37.27001"	527134.626	2074330.963	Road 11
593	R538	81°15'25.84001"	18°45'37.64002"	527106.504	2074342.295	Road 11
594	R539	81°15'24.44000"	18°45'38.63999"	527065.47	2074372.97	Road 11
595	R540	81°15'22.43002"	18°45'41.96002"	527006.475	2074474.926	Road 11
596	R541	81°15'21.29000"	18°45'42.50999"	526973.074	2074491.782	Road 11
597	R542	81°15'20.34000"	18°45'42.50999"	526945.26	2074491.742	Road 11
598	R543	81°15'19.19002"	18°45'41.69002"	526911.627	2074466.492	Road 11
599	R544	81°15'18.23000"	18°45'41.28998"	526883.538	2074454.156	Road 11
600	R545	81°15'15.05002"	18°45'40.18000"	526790.484	2074419.908	Road 11
601	R546	81°15'12.55000"	18°45'40.34002"	526717.282	2074424.722	Road 11
602	R547	81°15'11.26001"	18°45'40.30999"	526679.515	2074423.745	Road 11
603	R548	81°15'10.06999"	18°45'40.11001"	526644.683	2074417.549	Road 11
604	R549	81°15'08.48002"	18°45'39.82000"	526598.145	2074408.57	Road 11

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
605	R550	81°15'07.21001"	18°45'39.53999"	526560.974	2074399.911	Road 11
606	R551	81°15'06.09001"	18°45'39.28000"	526528.194	2074391.874	Road 11
607	R552	81°15'05.10998"	18°45'38.90999"	526499.517	2074380.461	Road 11
608	R553	81°15'04.42001"	18°45'38.59999"	526479.33	2074370.905	Road 11
609	R554	81°15'03.56000"	18°45'38.39000"	526454.16	2074364.416	Road 11
610	R555	81°15'01.80000"	18°45'38.21000"	526402.638	2074358.811	Road 11
611	R556	81°15'00.36000"	18°45'38.25000"	526360.476	2074359.981	Road 11
612	R557	81°14'58.61000"	18°45'38.07000"	526309.248	2074354.377	Road 11
613	R558	81°14'57.43000"	18°45'37.41998"	526274.728	2074334.35	Road 11
614	R559	81°14'54.75998"	18°45'36.07999"	526196.613	2074293.056	Road 11
615	R560	81°14'52.27001"	18°45'35.15000"	526123.751	2074264.372	Road 11
616	R561	81°14'49.03001"	18°45'34.07000"	526028.937	2074231.046	Road 11
617	R562	81°14'47.64998"	18°45'33.85001"	525988.542	2074224.229	Road 11
618	R563	81°14'45.98002"	18°45'33.63001"	525939.657	2074217.399	Road 11
619	R564	81°14'45.20000"	18°45'33.30000"	525916.834	2074207.225	Road 11
620	R565	81°14'44.18999"	18°45'32.54000"	525887.295	2074183.826	Road 11
621	R566	81°14'43.73999"	18°45'32.37998"	525874.127	2074178.889	Road 11
622	R567	81°14'43.18001"	18°45'32.42999"	525857.729	2074180.404	Road 11
623	R568	81°14'42.60001"	18°45'32.91001"	525840.728	2074195.134	Road 11
624	R569	81°14'39.08000"	18°45'36.09000"	525737.535	2074292.729	Road 11
625	R570	81°14'38.19998"	18°45'36.51001"	525711.752	2074305.603	Road 11
626	R571	81°14'35.85998"	18°45'36.74002"	525643.232	2074312.578	Road 11
627	R572	81°14'34.26000"	18°45'37.24999"	525596.366	2074328.188	Road 11
628	R573	81°14'33.65999"	18°45'38.02000"	525578.767	2074351.83	Road 11
629	R574	81°14'33.51998"	18°45'38.67998"	525574.64	2074372.11	Road 11
630	R575	81°14'33.27000"	18°45'38.76001"	525567.318	2074374.559	Road 11
631	R576	81°14'32.78000"	18°45'38.76001"	525552.972	2074374.54	Road 11
632	R577	81°14'32.51000"	18°45'38.58998"	525545.074	2074369.303	Road 11
633	R578	81°14'32.17999"	18°45'34.92000"	525535.566	2074256.493	Road 11
634	R579	81°14'30.71000"	18°45'33.17000"	525492.6	2074202.649	Road 11
635	R580	81°14'29.18000"	18°45'33.17000"	525447.805	2074202.588	Road 11
636	R581	81°14'28.52002"	18°45'33.37999"	525428.473	2074209.016	Road 11
637	R582	81°14'27.92000"	18°45'34.43000"	525410.862	2074241.264	Road 11
638	R583	81°14'27.71999"	18°45'36.18000"	525404.933	2074295.042	Road 11
639	R584	81°14'27.07001"	18°45'37.45001"	525385.85	2074334.05	Road 11
640	R520	81°15'21.44999"	18°45'43.16000"	526977.729	2074511.767	Road 12
641	R521	81°15'22.34999"	18°45'42.72001"	527004.099	2074498.281	Road 12
642	R586	81°15'23.01001"	18°45'43.49999"	527023.388	2074522.282	Road 12
643	R587	81°15'23.50001"	18°45'44.34001"	527037.697	2074548.12	Road 12
644	R588	81°15'23.86001"	18°45'45.68000"	527048.177	2074589.32	Road 12
645	R589	81°15'23.71000"	18°45'46.54001"	527043.747	2074615.746	Road 12
646	R590	81°15'23.27000"	18°45'47.13998"	527030.839	2074634.168	Road 12
647	R591	81°15'22.34002"	18°45'47.79000"	527003.582	2074654.107	Road 12
648	R592	81°15'21.11000"	18°45'48.39001"	526967.544	2074672.496	Road 12
649	R593	81°15'18.50000"	18°45'50.47999"	526891.038	2074736.622	Road 12
650	R594	81°15'18.07999"	18°45'51.36998"	526878.702	2074763.958	Road 12

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
651	R595	81°15'18.01001"	18°45'51.70000"	526876.639	2074774.098	Road 12
652	R596	81°15'20.18002"	18°45'52.31002"	526940.144	2074792.938	Road 12
653	R597	81°15'21.49999"	18°45'52.79000"	526978.768	2074807.746	Road 12
654	R598	81°15'23.01998"	18°45'53.48999"	527023.238	2074829.324	Road 12
655	R599	81°15'26.19000"	18°45'53.46000"	527116.048	2074828.536	Road 12
656	R600	81°15'29.52000"	18°45'53.52998"	527213.538	2074830.828	Road 12
657	R601	81°15'32.04000"	18°45'54.63000"	527287.267	2074864.745	Road 12
658	R602	81°15'34.58002"	18°45'57.33000"	527361.511	2074947.837	Road 12
659	R603	81°15'34.35998"	18°45'57.88001"	527355.044	2074964.732	Road 12
660	R604	81°15'31.70999"	18°45'55.05001"	527277.587	2074877.64	Road 12
661	R605	81°15'29.40001"	18°45'54.05000"	527210.002	2074846.806	Road 12
662	R606	81°15'26.19000"	18°45'53.98999"	527116.025	2074844.826	Road 12
663	R607	81°15'22.90000"	18°45'54.01001"	527019.702	2074845.302	Road 12
664	R608	81°15'21.30001"	18°45'53.28000"	526972.891	2074822.798	Road 12
665	R609	81°15'19.99001"	18°45'52.79000"	526934.56	2074807.683	Road 12
666	R610	81°15'18.07999"	18°45'52.26001"	526878.663	2074791.313	Road 12
667	R611	81°15'18.20002"	18°45'52.52000"	526882.166	2074799.309	Road 12
668	R612	81°15'18.58000"	18°45'52.96000"	526893.271	2074812.848	Road 12
669	R613	81°15'19.63001"	18°45'53.68000"	526923.981	2074835.022	Road 12
670	R614	81°15'20.39000"	18°45'54.01001"	526946.217	2074845.196	Road 12
671	R615	81°15'21.52001"	18°45'54.99000"	526979.257	2074875.364	Road 12
672	R616	81°15'23.46001"	18°45'55.17000"	527036.046	2074880.978	Road 12
673	R617	81°15'27.31000"	18°45'56.26001"	527148.714	2074914.642	Road 12
674	R618	81°15'29.65000"	18°45'57.73000"	527217.157	2074959.921	Road 12
675	R619	81°15'30.80002"	18°45'59.81000"	527250.733	2075023.899	Road 12
676	R620	81°15'31.73000"	18°46'01.22999"	527277.897	2075067.582	Road 12
677	R621	81°15'32.17000"	18°46'02.23000"	527290.734	2075098.336	Road 12
678	R622	81°15'32.37001"	18°46'03.49000"	527296.533	2075137.07	Road 12
679	R623	81°15'32.36000"	18°46'05.22001"	527296.163	2075190.242	Road 12
680	R624	81°15'31.81000"	18°46'05.22001"	527280.06	2075190.219	Road 12
681	R625	81°15'31.83001"	18°46'03.52999"	527280.722	2075138.277	Road 12
682	R626	81°15'31.64000"	18°46'02.38001"	527275.211	2075102.924	Road 12
683	R627	81°15'31.24001"	18°46'01.47000"	527263.541	2075074.938	Road 12
684	R628	81°15'30.31999"	18°46'00.05999"	527236.668	2075031.562	Road 12
685	R629	81°15'30.22999"	18°45'59.87002"	527234.042	2075025.719	Road 12
686	R630	81°15'29.22998"	18°45'58.07002"	527204.845	2074970.354	Road 12
687	R631	81°15'28.44000"	18°45'57.51000"	527181.742	2074953.108	Road 12
688	R632	81°15'27.07999"	18°45'56.74000"	527141.959	2074929.385	Road 12
689	R633	81°15'23.37001"	18°45'55.68001"	527033.389	2074896.649	Road 12
690	R634	81°15'22.23000"	18°45'55.58000"	527000.017	2074893.528	Road 12
691	R635	81°15'24.18001"	18°45'57.08999"	527057.041	2074940.019	Road 12
692	R636	81°15'27.60998"	18°46'00.64999"	527157.302	2075049.581	Road 12
693	R637	81°15'27.76000"	18°46'03.10001"	527161.585	2075124.888	Road 12
694	R638	81°15'25.40002"	18°46'05.75000"	527092.375	2075206.236	Road 12
695	R639	81°15'22.92998"	18°46'08.18000"	527019.953	2075280.818	Road 12
696	R640	81°15'22.30999"	18°46'08.04000"	527001.808	2075276.489	Road 12

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
697	R641	81°15'24.97000"	18°46'05.41999"	527079.8	2075196.075	Road 12
698	R642	81°15'27.20002"	18°46'02.95000"	527145.197	2075120.254	Road 12
699	R643	81°15'27.06998"	18°46'00.86002"	527141.483	2075056.013	Road 12
700	R644	81°15'26.12002"	18°45'59.87999"	527113.714	2075025.852	Road 12
701	R645	81°15'22.56001"	18°45'59.63000"	527009.5	2075018.018	Road 12
702	R646	81°15'19.32001"	18°45'59.72000"	526914.639	2075020.648	Road 12
703	R647	81°15'15.90998"	18°45'59.44000"	526814.816	2075011.899	Road 12
704	R648	81°15'12.66998"	18°45'58.66999"	526719.993	2074988.098	Road 12
705	R649	81°15'00.86500"	18°45'59.98434"	526374.323	2075028.005	Road 12
706	R650	81°14'58.22114"	18°46'00.40691"	526296.901	2075040.884	Road 12
707	R651	81°14'56.37998"	18°46'01.85002"	526242.936	2075085.163	Road 12
708	R652	81°14'55.72000"	18°46'01.69000"	526223.621	2075080.218	Road 12
709	R653	81°14'57.99001"	18°45'59.91998"	526290.155	2075025.909	Road 12
710	R654	81°15'00.86000"	18°45'59.46001"	526374.2	2075011.89	Road 12
711	R655	81°15'12.71002"	18°45'58.14000"	526721.188	2074971.81	Road 12
712	R656	81°15'15.99998"	18°45'58.92998"	526817.474	2074996.228	Road 12
713	R657	81°15'19.32998"	18°45'59.19998"	526914.954	2075004.666	Road 12
714	R658	81°15'22.57999"	18°45'59.10998"	527010.108	2075002.036	Road 12
715	R659	81°15'25.58002"	18°45'59.32001"	527097.93	2075008.618	Road 12
716	R660	81°15'23.80000"	18°45'57.47000"	527045.898	2074951.683	Road 12
717	R661	81°15'21.48998"	18°45'55.64999"	526978.349	2074895.647	Road 12
718	R662	81°15'20.08001"	18°45'54.45000"	526937.122	2074858.707	Road 12
719	R663	81°15'19.36001"	18°45'54.13000"	526916.056	2074848.841	Road 12
720	R664	81°15'18.85000"	18°45'53.78000"	526901.14	2074838.063	Road 12
721	R665	81°15'18.20999"	18°45'53.34998"	526882.421	2074824.819	Road 12
722	R666	81°15'17.74001"	18°45'52.80001"	526868.686	2074807.896	Road 12
723	R667	81°15'17.38001"	18°45'52.07000"	526858.178	2074785.444	Road 12
724	R668	81°15'17.55000"	18°45'51.22001"	526863.192	2074759.327	Road 12
725	R669	81°15'18.04000"	18°45'50.18000"	526877.584	2074727.383	Road 12
726	R670	81°15'19.62000"	18°45'48.78000"	526923.904	2074684.42	Road 12
727	R671	81°15'20.83000"	18°45'47.94001"	526959.366	2074658.654	Road 12
728	R672	81°15'22.05000"	18°45'47.34000"	526995.111	2074640.264	Road 12
729	R673	81°15'22.87001"	18°45'46.77001"	527019.144	2074622.78	Road 12
730	R674	81°15'23.19001"	18°45'46.33999"	527028.532	2074609.577	Road 12
731	R675	81°15'23.29999"	18°45'45.69998"	527031.781	2074589.911	Road 12
732	R676	81°15'22.99000"	18°45'44.53999"	527022.756	2074554.245	Road 12
733	R677	81°15'22.56001"	18°45'43.80001"	527010.2	2074531.484	Road 12
734	R530	81°15'29.94998"	18°45'42.44000"	527226.621	2074489.997	Road 13
735	R531	81°15'30.62999"	18°45'42.68999"	527246.519	2074497.709	Road 13
736	R678	81°15'30.49999"	18°45'43.92000"	527242.658	2074535.508	Road 13
737	R679	81°15'31.18000"	18°45'44.73000"	527262.531	2074560.432	Road 13
738	R680	81°15'32.02999"	18°45'45.22000"	527287.395	2074575.528	Road 13
739	R681	81°15'32.44280"	18°45'45.37038"	527299.474	2074580.168	Road 13
740	R682	81°15'32.37192"	18°45'44.82108"	527297.423	2074563.282	Road 13
741	R683	81°15'32.26000"	18°45'44.78000"	527294.148	2074562.015	Road 13
742	R684	81°15'31.52999"	18°45'44.35999"	527272.794	2074549.074	Road 13

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
743	R685	81°15'30.94999"	18°45'43.67002"	527255.844	2074527.843	Road 13
744	R686	81°15'36.46001"	18°45'54.43999"	527416.681	2074859.093	Road 14
745	R687	81°15'37.53000"	18°45'55.26000"	527447.97	2074884.342	Road 14
746	R688	81°15'37.83171"	18°45'54.97059"	527456.816	2074875.46	Road 14
747	R689	81°15'38.95665"	18°45'54.24458"	527489.784	2074853.194	Road 14
748	R690	81°15'37.45001"	18°45'53.52998"	527445.706	2074831.166	Road 14
749	R691	81°15'36.94000"	18°45'53.97001"	527430.755	2074844.669	Road 14
750	R602	81°15'34.58002"	18°45'57.33000"	527361.511	2074947.837	Road 15
751	R603	81°15'34.35998"	18°45'57.88001"	527355.044	2074964.732	Road 15
752	R692	81°15'35.71999"	18°45'55.32998"	527394.975	2074886.415	Road 15
753	R693	81°15'33.86002"	18°46'00.28999"	527340.299	2075038.782	Road 15
754	R694	81°15'33.54998"	18°46'05.20000"	527331.002	2075189.677	Road 15
755	R695	81°15'34.90999"	18°46'05.20000"	527370.819	2075189.735	Road 15
756	R696	81°15'35.21999"	18°46'00.37999"	527380.11	2075041.606	Road 15
757	R697	81°15'35.34001"	18°45'59.47999"	527383.665	2075013.95	Road 15
758	R698	81°15'35.52001"	18°45'58.73000"	527388.968	2074990.906	Road 15
759	R699	81°15'36.78001"	18°45'56.14999"	527425.973	2074911.664	Road 15
760	R697	81°15'35.34001"	18°45'59.47999"	527383.665	2075013.95	Road 16
761	R698	81°15'35.52001"	18°45'58.73000"	527388.968	2074990.906	Road 16
762	R701	81°15'35.83001"	18°45'59.24999"	527398.02	2075006.901	Road 16
763	R702	81°15'36.63000"	18°46'01.07000"	527421.36	2075062.874	Road 16
764	R703	81°15'37.08000"	18°46'02.66002"	527434.463	2075111.762	Road 16
765	R704	81°15'37.36001"	18°46'03.69001"	527442.615	2075143.431	Road 16
766	R705	81°15'38.22503"	18°46'04.13091"	527467.92	2075157.019	Road 16
767	R706	81°15'39.50587"	18°46'03.66823"	527505.439	2075142.853	Road 16
768	R707	81°15'40.81097"	18°46'04.31433"	527543.619	2075162.767	Road 16
769	R708	81°15'41.34930"	18°46'05.18180"	527559.34	2075189.452	Road 16
770	R709	81°15'40.30522"	18°46'05.18612"	527528.773	2075189.54	Road 16
771	R710	81°15'41.37007"	18°46'04.81878"	527559.965	2075178.295	Road 16
772	R711	81°15'39.57971"	18°46'04.19831"	527507.577	2075159.149	Road 16
773	R712	81°15'38.18514"	18°46'04.70207"	527466.726	2075174.572	Road 16
774	R713	81°15'36.88999"	18°46'04.04000"	527428.838	2075154.168	Road 16
775	R714	81°15'36.55001"	18°46'02.79001"	527418.941	2075115.735	Road 16
776	R715	81°15'36.11002"	18°46'01.24000"	527406.129	2075068.076	Road 16
777	S1	81°15'27.22640"	18°46'21.88952"	527145.127	2075702.361	Screening plant
778	S4	81°15'27.20002"	18°46'05.21000"	527145.096	2075189.715	Screening plant
779	S3	81°15'39.37000"	18°46'05.18999"	527501.393	2075189.619	Screening plant
780	S2	81°15'39.40049"	18°46'21.88802"	527501.533	2075702.834	Screening plant
781	R690	81°15'37.45001"	18°45'53.52998"	527445.706	2074831.166	Road
782	R689	81°15'38.95665"	18°45'54.24458"	527489.784	2074853.194	Road
783	RSL4	81°15'39.33822"	18°45'52.10190"	527501.052	2074787.355	Road
784	RSL5	81°15'38.93000"	18°45'52.26998"	527489.093	2074792.504	Road
785	RSL1	81°15'40.01384"	18°45'53.68937"	527520.761	2074836.175	Road
787	P- 1	81°15'54.13180"	18°46'40.65043"	527931.946	2076280.134	Railway Siding
788	P- 2	81°15'53.22597"	18°46'37.61658"	527905.566	2076186.849	Railway Siding
789	P- 3	81°15'52.47533"	18°46'34.49278"	527883.734	2076090.806	Railway Siding

Sr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
790	P- 4	81°15'51.74432"	18°46'31.45061"	527862.472	2075997.273	Railway Siding
791	P- 5	81°15'51.13048"	18°46'28.89602"	527844.618	2075918.731	Railway Siding
792	P- 6	81°15'51.38797"	18°46'28.87507"	527852.157	2075918.099	Railway Siding
793	P- 7	81°15'51.40982"	18°46'28.00631"	527852.837	2075891.398	Railway Siding
794	P- 8	81°15'53.85489"	18°46'27.91647"	527924.422	2075888.743	Railway Siding
795	P- 9	81°15'53.84104"	18°46'27.41247"	527924.039	2075873.252	Railway Siding
796	P- 10	81°15'51.15038"	18°46'27.52623"	527845.263	2075876.632	Railway Siding
797	P- 11	81°15'50.85471"	18°46'26.31706"	527836.663	2075839.455	Railway Siding
798	P- 12	81°15'47.21920"	18°46'25.78581"	527730.255	2075822.97	Loading Plant
799	P- 13	81°15'48.31664"	18°46'28.74854"	527762.249	2075914.076	Railway Siding
800	P- 14	81°15'49.50182"	18°46'31.82648"	527796.805	2076008.728	Railway Siding
801	P- 15	81°15'50.65845"	18°46'34.83025"	527830.529	2076101.1	Railway Siding
802	P- 16	81°15'51.62001"	18°46'37.32742"	527858.565	2076177.892	Railway Siding
803	P- 17	81°15'52.37566"	18°46'38.93668"	527880.613	2076227.386	Railway Siding
804	P- 18	81°15'50.04250"	18°46'20.25048"	527813.161	2075652.964	Railway Siding
805	P- 19	81°15'46.98193"	18°46'18.09072"	527723.658	2075586.451	Loading Plant
806	P- 20	81°15'44.90414"	18°46'18.16545"	527662.826	2075588.658	Loading Plant
807	P- 21	81°15'45.85168"	18°46'21.29808"	527690.424	2075684.98	Loading Plant
808	P- 22	81°15'46.97453"	18°46'24.98288"	527723.129	2075798.281	Loading Plant
809	P- 23	81°15'49.57625"	18°46'25.23978"	527799.284	2075806.289	Railway Siding
810	P- 24	81°15'50.70333"	18°46'25.63338"	527832.262	2075818.436	Railway Siding
811	P- 25	81°15'50.21635"	18°46'22.92191"	527818.129	2075735.077	Railway Siding
812	P- 26	81°15'50.01710"	18°46'18.69867"	527812.488	2075605.268	Railway Siding
813	P- 27	81°15'50.04797"	18°46'15.55691"	527813.535	2075508.707	Railway Siding
814	P- 28	81°15'50.16189"	18°46'15.12026"	527816.89	2075495.291	Railway Siding
815	P- 29	81°15'50.25764"	18°46'12.31808"	527819.821	2075409.17	Railway Siding
816	P- 30	81°15'50.33413"	18°46'09.06536"	527822.208	2075309.201	Railway Siding
817	P- 31	81°15'50.28959"	18°46'05.81247"	527821.053	2075209.222	Railway Siding
818	P- 32	81°15'50.13226"	18°46'03.82042"	527816.537	2075147.989	Railway Siding
819	P- 33	81°15'49.77988"	18°46'02.61638"	527806.276	2075110.968	Railway Siding
820	P- 34	81°15'47.86621"	18°45'59.95593"	527750.371	2075029.116	Railway Siding
821	P- 35	81°15'45.06483"	18°45'58.10769"	527668.439	2074972.19	Railway Siding
822	P- 36	81°15'41.62074"	18°45'56.30417"	527567.688	2074916.61	Railway Siding
823	P- 37	81°15'41.89557"	18°45'57.55617"	527575.678	2074955.102	Railway Siding
824	P- 38	81°15'41.84151"	18°45'58.50732"	527574.052	2074984.333	Railway Siding
825	P- 39	81°15'40.63913"	18°45'59.52406"	527538.804	2075015.531	Loading Plant
826	P- 40	81°15'40.03012"	18°45'59.63772"	527520.969	2075018.998	Loading Plant
827	P- 41	81°15'39.65314"	18°45'59.60234"	527509.934	2075017.894	Loading Plant
828	P- 42	81°15'40.70166"	18°46'02.52187"	527540.5	2075107.671	Loading Plant
829	P- 43	81°15'41.63190"	18°46'05.71850"	527567.59	2075205.96	Loading Plant
830	P- 44	81°15'42.43900"	18°46'08.99178"	527591.071	2075306.599	Loading Plant
831	P- 45	81°15'43.23684"	18°46'12.13249"	527614.287	2075403.163	Loading Plant
832	P- 46	81°15'44.47043"	18°46'12.56646"	527650.382	2075416.554	Loading Plant
833	P- 47	81°15'44.51607"	18°46'10.97477"	527651.79	2075367.635	Loading Plant
834	P- 48	81°15'45.94179"	18°46'11.74778"	527693.495	2075391.455	Loading Plant
835	P- 49	81°15'46.07472"	18°46'10.07998"	527697.462	2075340.201	Loading Plant



Slr No	Point ID	Longitude	Latitude	Easting	Northing	Infra Facility
836	P- 50	81°15'46.46513"	18°46'10.00271"	527708.896	2075337.843	Loading Plant
837	P- 51	81°15'48.04824"	18°46'11.56924"	527755.172	2075386.059	Railway Siding
838	P- 52	81°15'49.44414"	18°46'11.35942"	527796.049	2075379.671	Railway Siding
839	P- 53	81°15'49.85360"	18°46'11.65513"	527808.023	2075388.777	Railway Siding
840	P- 54	81°15'49.79405"	18°46'14.68592"	527806.141	2075481.926	Railway Siding
841	P- 55	81°15'44.90312"	18°46'15.29546"	527662.926	2075500.448	Loading Plant
842	P- 56	81°15'44.38673"	18°46'13.50593"	527647.889	2075445.425	Loading Plant
843	P- 57	81°15'43.44205"	18°46'12.87502"	527620.261	2075425.993	Loading Plant
844	P- 58	81°15'44.42523"	18°46'16.43260"	527648.884	2075535.378	Loading Plant
845	P- 59	81°15'47.66515"	18°46'16.98471"	527743.711	2075552.487	Loading Plant
846	P- 60	81°15'41.16916"	18°45'56.05853"	527554.478	2074909.041	Railway Siding
847	P- 61	81°15'40.09001"	18°45'55.47154"	527522.91	2074890.953	Railway Siding
848	P- 62	81°15'39.88425"	18°45'57.55191"	527516.793	2074954.885	Railway Siding
849	P- 63	81°15'39.68327"	18°45'59.33113"	527510.828	2075009.56	Loading Plant
850	P- 64	81°15'40.07921"	18°45'59.30130"	527522.421	2075008.661	Loading Plant
851	P- 65	81°15'40.61502"	18°45'59.10465"	527538.117	2075002.64	Loading Plant
852	P- 66	81°15'41.47859"	18°45'58.34011"	527563.434	2074979.178	Railway Siding
853	P- 67	81°15'41.54639"	18°45'57.52896"	527565.456	2074954.251	Railway Siding
854	P- 68	81°15'34.44983"	18°45'51.66603"	527357.953	2074773.75	Railway Siding
855	P- 69	81°15'34.03754"	18°45'49.17488"	527345.994	2074697.167	Railway Siding
856	P- 70	81°15'34.43649"	18°45'48.02347"	527357.725	2074661.795	Railway Siding
857	P- 71	81°15'34.46154"	18°45'46.64680"	527358.521	2074619.484	Railway Siding
858	P- 72	81°15'34.09923"	18°45'45.79817"	527347.951	2074593.386	Railway Siding
859	P- 73	81°15'32.61247"	18°45'46.68534"	527304.383	2074620.59	Railway Siding
860	P- 74	81°15'32.76131"	18°45'47.83885"	527308.689	2074656.049	Railway Siding
861	P- 75	81°15'32.80414"	18°45'50.40867"	527309.828	2074735.035	Railway Siding
862	P- 76	81°15'33.53226"	18°45'51.52225"	527331.095	2074769.292	Railway Siding

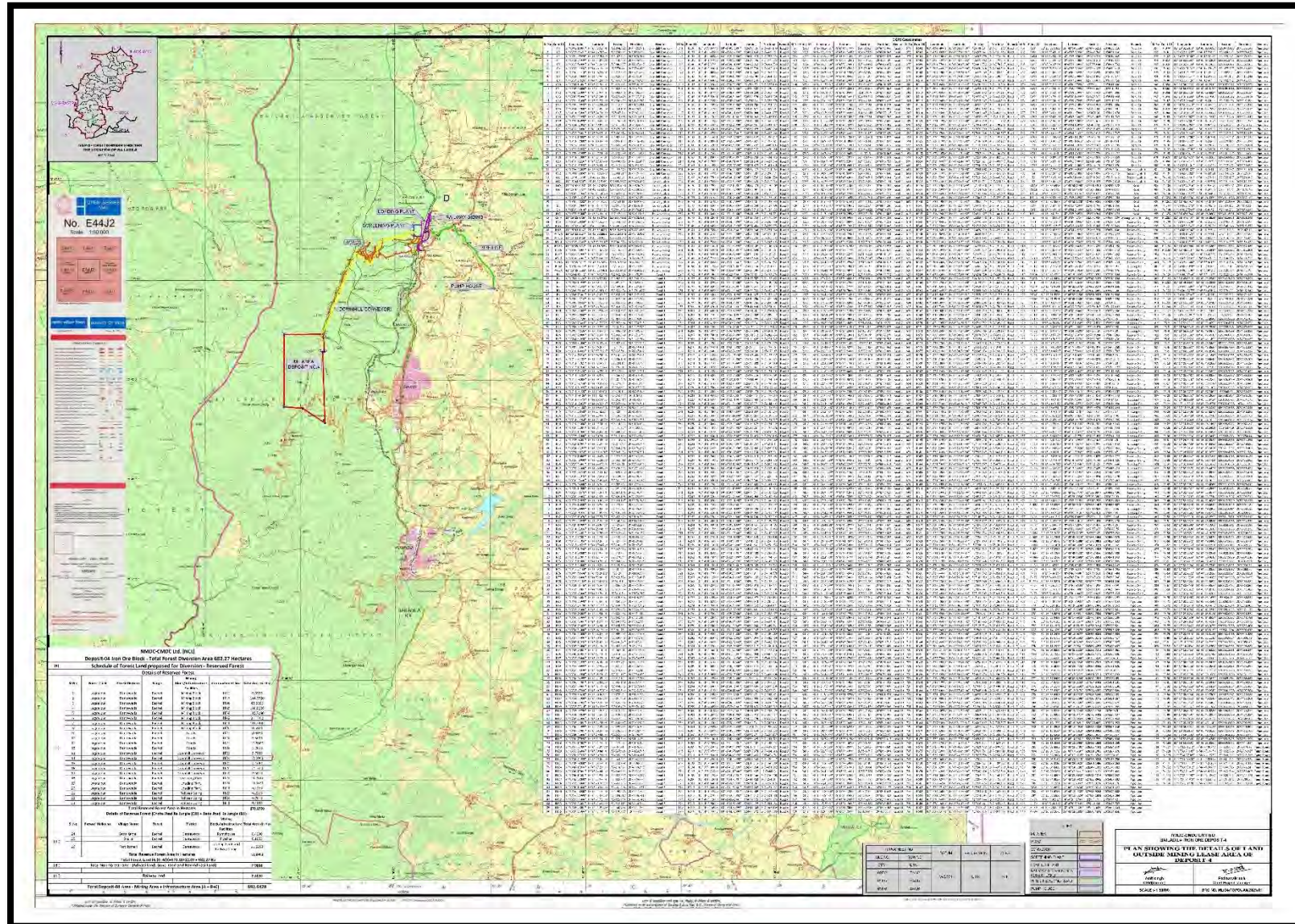
प.च. नाईक
Chief Executive Officer
 NMDC-CMDC Limited
 Greens Valley City, Housing Board Colony,
 Boriyakala Sejbahar, Raipur-492015 (C.G.)

परिवहन अधिकारी
 रावेली

Divisional Forest Officer
 Dantewada Division
 DANTEWADA

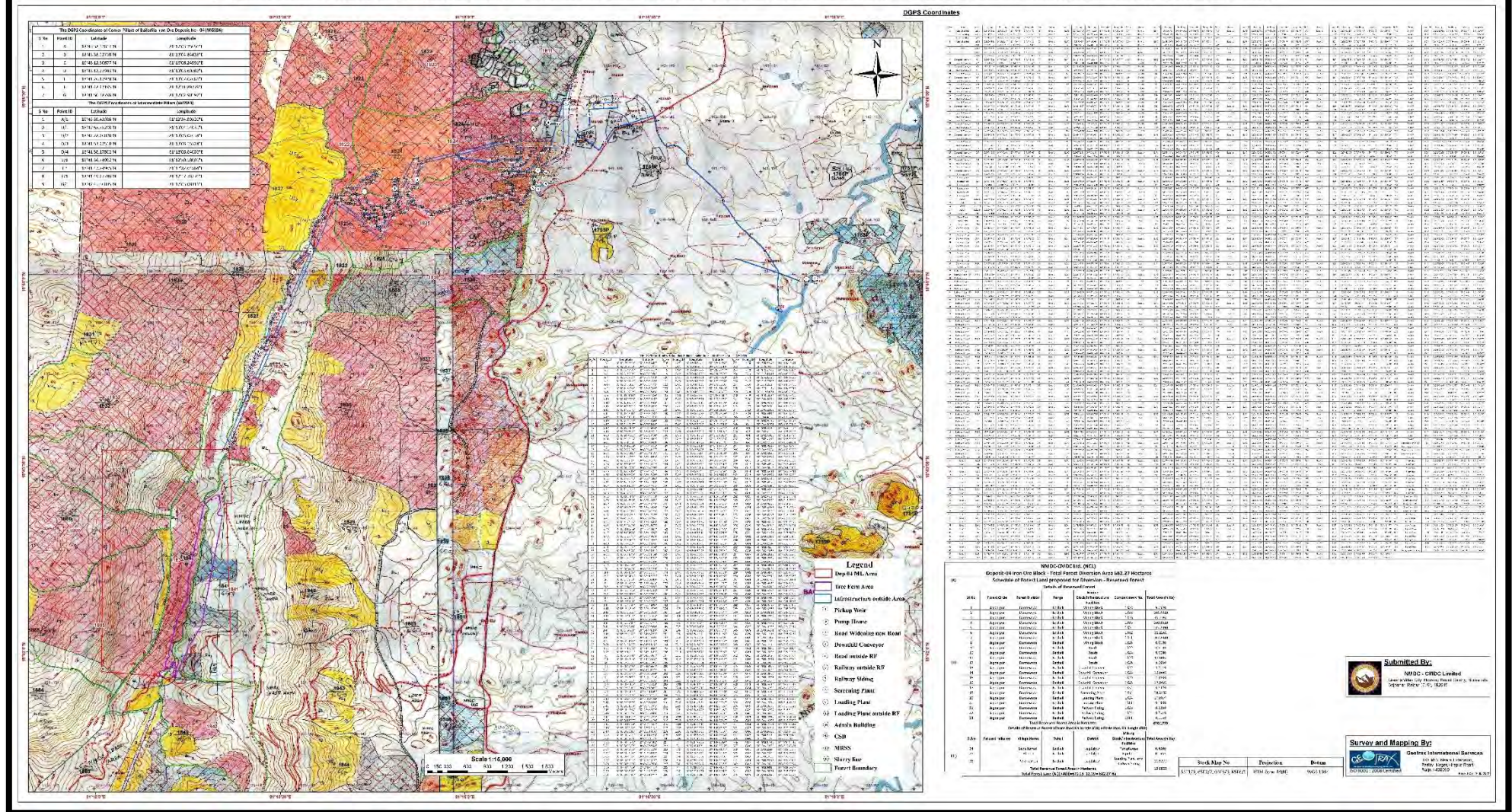
वन मण्डलाधिकारी
 रावेली (स.ल.)

7.5 Annexure-4: Geo-referenced SOI toposheet showing ML Area & Outside Mining Lease (OML) area

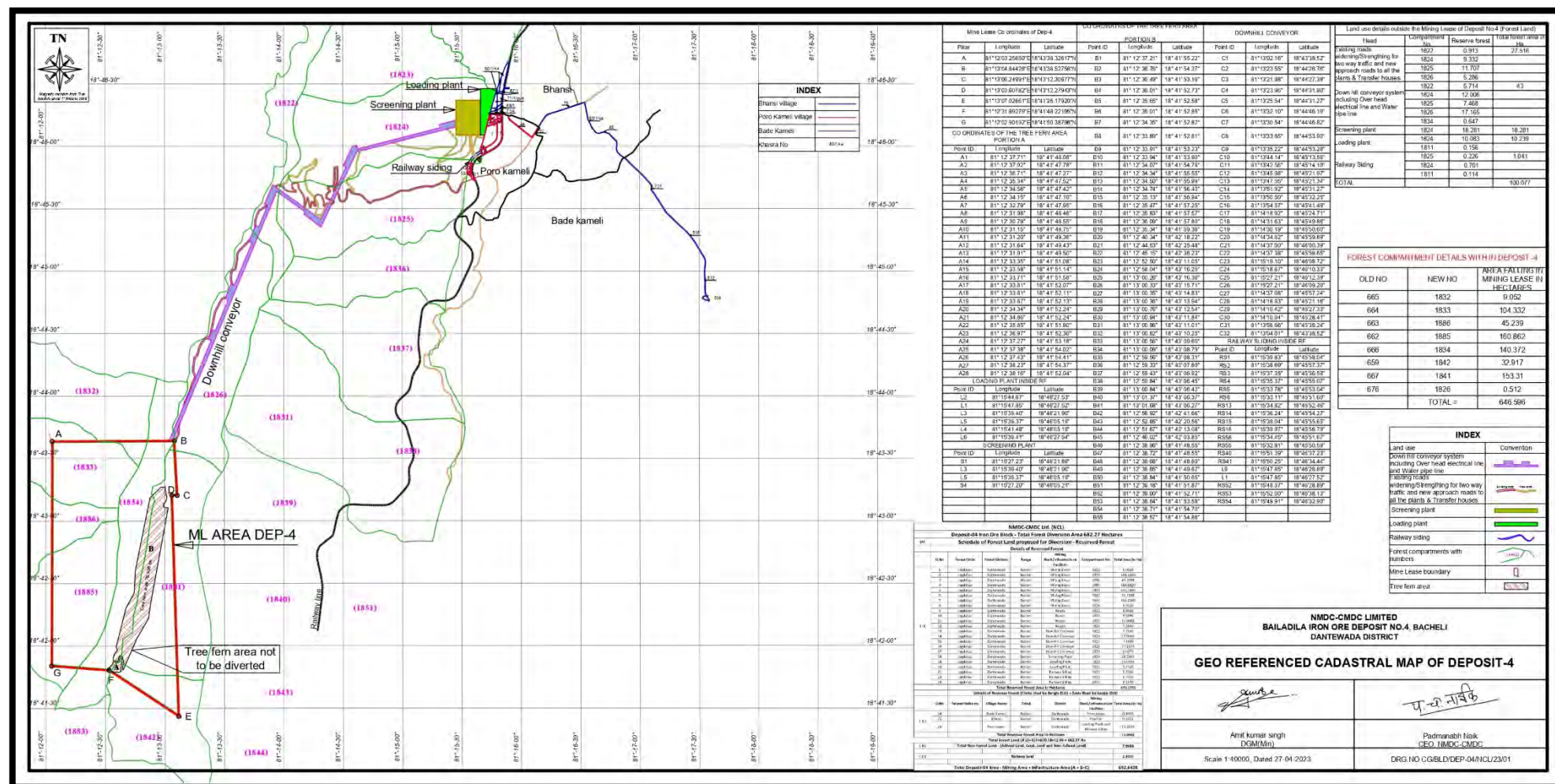


7.6 Annexure-5: Geo-referenced Forest Map showing outside mining lease forest area

Forest Compartment Map showing 682.27 Ha. forest land proposed for diversion in Mining Lease & Outside Mining Lease (OML) of Deposit-4



7.7 Annexure-6: Geo-referenced Cadastral Map showing ML Area & outside mining lease facilities





7.8 Annexure-7: Field Survey Photographs of ML & OML Boundary



SCP - 1



SCP - 2



प.च. नाईक
Chief Executive Officer
NMDC-CMDC Limited
Greens Valley City, Housing Board Colony,
Boriyakala Sejbahar, Raipur-492015 (C.G.)

वन परिक्षेत्र अधिकारी
बघेली

Divisional Forest Officer
Dantewada Division
DANTEWADA

वन वन मंडलाधिकारी
दन्तेवाड़ा (म.)

Dep-04 Mining Lease Boundary Pillars

	
Point ID: D-37	Point ID: D-38
Latitude: 18°42'32.68566"E	Latitude: 18°42'31.60203"E
Longitude: 81°13'04.88363"N	Longitude: 81°13'04.91855"N
	
Point ID: D-39	Point ID: D-40
Latitude: 18°42'30.51840"E	Latitude: 18°42'29.43477"E
Longitude: 81°13'04.95346"N	Longitude: 81°13'04.98838"N



Point ID: D-41

Latitude: 18°42'28.35114"E

Longitude: 81°13'05.02330"N



Point ID: D-42

Latitude: 18°42'27.26751"E

Longitude: 81°13'05.05821"N



Point ID: D-43

Latitude: 18°42'26.18388"E

Longitude: 81°13'05.09313"N



Point ID: D-44

Latitude: 18°42'25.10025"E

Longitude: 81°13'05.12805"N



Point ID: D-45

Point ID: D-46

Latitude: 18°42'24.01662"E

Latitude: 18°42'22.93299"E

Longitude: 81°13'05.16296"N

Longitude: 81°13'05.19788"N



Point ID: D-47

Point ID: D-48

Latitude: 18°42'21.84936"E

Latitude: 18°42'20.76573"E

Longitude: 81°13'05.23280"N

Longitude: 81°13'05.26772"N



Point ID: D-49

Point ID: D-50

Latitude: 18°42'19.68210"E

Latitude: 18°42'18.59847"E

Longitude: 81°13'05.30263"N

Longitude: 81°13'05.33755"N



Point ID: D-51

Point ID: D-52

Latitude: 18°42'17.51484"E

Latitude: 18°42'16.43121"E

Longitude: 81°13'05.37247"N

Longitude: 81°13'05.40738"N



Point ID: D-53

Point ID: D-54

Latitude: 18°42'15.34758"E

Latitude: 18°42'14.26395"E

Longitude: 81°13'05.44230"N

Longitude: 81°13'05.47722"N



Point ID: D-55

Point ID: D-56

Latitude: 18°42'13.18032"E

Latitude: 18°42'12.09669"E

Longitude: 81°13'05.51214"N

Longitude: 81°13'05.54705"N



Point ID: D-57

Latitude: 18°42'11.01306"E

Longitude: 81°13'05.58197"N



Point ID: D-58

Latitude: 18°42'09.92943"E

Longitude: 81°13'05.61689"N



Point ID: D-59

Latitude: 18°42'08.84580"E

Longitude: 81°13'05.65180"N



Point ID: D-60

Latitude: 18°42'07.76217"E

Longitude: 81°13'05.68672"N



Point ID: D-61

Latitude: 18°42'06.67854"E

Longitude: 81°13'05.72164"N



Point ID: D-62

Latitude: 18°42'05.59491"E

Longitude: 81°13'05.75655"N



Point ID: D-63

Latitude: 18°42'04.51128"E

Longitude: 81°13'05.79147"N



Point ID: D-64

Latitude: 18°42'03.42764"E

Longitude: 81°13'05.82639"N



Point ID: D-65

Point ID: D-66

Latitude: 18°42'02.34401"E

Latitude: 18°42'01.26038"E

Longitude: 81°13'05.86131"N

Longitude: 81°13'05.89622"N



Point ID: D-67

Point ID: D-68

Latitude: 18°42'00.17675"E

Latitude: 18°41'59.09312"E

Longitude: 81°13'05.93114"N

Longitude: 81°13'05.96606"N



Point ID: D-69

Latitude: 18°41'58.00949"E

Longitude: 81°13'06.00097"N



Point ID: D-70

Latitude: 18°41'56.92586"E

Longitude: 81°13'06.03589"N



Point ID: D-71

Latitude: 18°41'55.84223"E

Longitude: 81°13'06.07081"N



Point ID: D-72

Latitude: 18°41'54.75860"E

Longitude: 81°13'06.10573"N



Point ID: D-73

Latitude: 18°41'53.67497"E

Longitude: 81°13'06.14064"N



Point ID: D-74

Latitude: 18°41'52.59134"E

Longitude: 81°13'06.17556"N



Point ID: D-78

Latitude: 18°41'48.25682"E

Longitude: 81°13'06.31523"N



Point ID: D-79

Latitude: 18°41'47.17319"E

Longitude: 81°13'06.35014"N



Point ID: D-80

Latitude: 18°41'46.08956"E

Longitude: 81°13'06.38506"N



Point ID: D-81

Latitude: 18°41'45.00593"E

Longitude: 81°13'06.41998"N



Point ID: D-82

Latitude: 18°41'43.92230"E

Longitude: 81°13'06.45490"N



Point ID: D-83

Latitude: 18°41'42.83867"E

Longitude: 81°13'06.48981"N



Point ID: D-84

Latitude: 18°41'41.75504"E

Longitude: 81°13'06.52473"N



Point ID: D-85

Latitude: 18°41'40.67141"E

Longitude: 81°13'06.55965"N



Point ID: D-86

Latitude: 18°41'39.58778"E

Longitude: 81°13'06.59456"N



Point ID: D-87

Latitude: 18°41'38.50415"E

Longitude: 81°13'06.62948"N



Point ID: D-88

Point ID: D-89

Latitude: 18°41'37.42052"E

Latitude: 18°41'36.33689"E

Longitude: 81°13'06.66440"N

Longitude: 81°13'06.69932"N



Point ID: D-90

Point ID: D-91

Latitude: 18°41'35.25326"E

Latitude: 18°41'34.16963"E

Longitude: 81°13'06.73423"N

Longitude: 81°13'06.76915"N



Point ID: D-92

Latitude: 18°41'33.08600"E

Longitude: 81°13'06.80407"N



Point ID: D-93

Latitude: 18°41'32.00237"E

Longitude: 81°13'06.83898"N



Point ID: D-94

Latitude: 18°41'30.91874"E

Longitude: 81°13'06.87390"N



Point ID: D-95

Latitude: 18°41'29.83511"E

Longitude: 81°13'06.90882"N



Point ID: D-96

Point ID: D-97

Latitude: 18°41'28.75148"E

Latitude: 18°41'27.66785"E

Longitude: 81°13'06.94373"N

Longitude: 81°13'06.97865"N



Point ID: E-01

Point ID: E-02

Latitude: 18°41'26.54004"E

Latitude: 18°41'27.11624"E

Longitude: 81°13'06.45148"N

Longitude: 81°13'05.53307"N



Point ID: E-03

Latitude: 18°41'27.69244"E

Longitude: 81°13'04.61467"N



Point ID: E-04

Latitude: 18°41'28.26864"E

Longitude: 81°13'03.69626"N



Point ID: E-05

Latitude: 18°41'28.84484"E

Longitude: 81°13'02.77786"N



Point ID: E-06

Latitude: 18°41'29.42104"E

Longitude: 81°13'01.85946"N



Point ID: E-07

Latitude: 18°41'29.99725"E

Longitude: 81°13'00.94105"N



Point ID: E-08

Latitude: 18°41'30.57345"E

Longitude: 81°13'00.02265"N



Point ID: E-09

Latitude: 18°41'31.14965"E

Longitude: 81°12'59.10424"N



Point ID: E-10

Latitude: 18°41'31.72585"E

Longitude: 81°12'58.18584"N



Point ID: E-11

Latitude: 18°41'32.30205"E

Longitude: 81°12'57.26743"N



Point ID: E-12

Latitude: 18°41'32.87825"E

Longitude: 81°12'56.34903"N



Point ID: E-13

Latitude: 18°41'33.45445"E

Longitude: 81°12'55.43063"N



Point ID: E-14

Latitude: 18°41'34.03065"E

Longitude: 81°12'54.51222"N



Point ID: E-15

Latitude: 18°41'34.60685"E

Longitude: 81°12'53.59382"N



Point ID: E-16

Latitude: 18°41'35.18305"E

Longitude: 81°12'52.67541"N



Point ID: E-17

Latitude: 18°41'35.75926"E

Longitude: 81°12'51.75701"N



Point ID: E-18

Latitude: 18°41'36.33546"E

Longitude: 81°12'50.83861"N



Point ID: E-19

Latitude: 18°41'36.91166"E

Longitude: 81°12'49.92020"N



Point ID: E-20

Latitude: 18°41'37.48786"E

Longitude: 81°12'49.00180"N



Point ID: E-21

Latitude: 18°41'38.06406"E

Longitude: 81°12'48.08339"N



Point ID: E-22

Latitude: 18°41'38.64026"E

Longitude: 81°12'47.16499"N



Point ID: E-23

Latitude: 18°41'39.21646"E

Longitude: 81°12'46.24658"N



Point ID: E-24

Latitude: 18°41'39.79266"E

Longitude: 81°12'45.32818"N



Point ID: E-25

Latitude: 18°41'40.36886"E

Longitude: 81°12'44.40978"N



Point ID: E-26

Latitude: 18°41'40.94506"E

Longitude: 81°12'43.49137"N



Point ID: E-27

Latitude: 18°41'41.52127"E

Longitude: 81°12'42.57297"N



Point ID: E-28

Latitude: 18°41'42.09747"E

Longitude: 81°12'41.65456"N



Point ID: E-29

Latitude: 18°41'42.67367"E

Longitude: 81°12'40.73616"N



Point ID: E-30

Latitude: 18°41'43.24987"E

Longitude: 81°12'39.81776"N



Point ID: E-31

Latitude: 18°41'43.82607"E

Longitude: 81°12'38.89935"N



Point ID: E-32

Latitude: 18°41'44.40227"E

Longitude: 81°12'37.98095"N



Point ID: E-33

Latitude: 18°41'44.97847"E

Longitude: 81°12'37.06254"N



Point ID: E-34

Latitude: 18°41'45.55467"E

Longitude: 81°12'36.14414"N



Point ID: E-35

Latitude: 18°41'46.13087"E

Longitude: 81°12'35.22573"N



Point ID: E-36

Latitude: 18°41'46.70707"E

Longitude: 81°12'34.30733"N



Point ID: E-37

Latitude: 18°41'47.28328"E

Longitude: 81°12'33.38893"N



Point ID: E-38

Latitude: 18°41'47.85948"E

Longitude: 81°12'32.47052"N



Point ID: F-02

Latitude: 18°41'48.41347"E

Longitude: 81°12'29.32938"N



Point ID: F-03

Latitude: 18°41'48.49425"E

Longitude: 81°12'28.24820"N



Point ID: F-04

Latitude: 81°12'27.16702"N

Longitude: 18°41'48.57503"E



Point ID: F-05

Latitude: 81°12'26.08584"N

Longitude: 18°41'48.65581"E



Point ID: F-06

Latitude: 18°41'48.73659"E

Longitude: 81°12'25.00467"N



Point ID: F-07

Latitude: 18°41'48.81737"E

Longitude: 81°12'23.92349"N



Point ID: F-08

Latitude: 18°41'48.89815"E

Longitude: 81°12'22.84231"N



Point ID: F-09

Latitude: 18°41'48.97893"E

Longitude: 81°12'21.76113"N



Point ID: F-10

Point ID: F-11

Latitude: 18°41'49.05971"E

Latitude: 18°41'49.14048"E

Longitude: 81°12'20.67995"N

Longitude: 81°12'19.59877"N