

North Karanpura Transco Ltd

GEOREFERENCED DGPS MAPPING FOR 400 KV D/C KARANPURA-CHANDWA TRANSMISSION LINE



DGPS REPORT

Table of Contents

1.0 Project Details	3
1.1 Introduction.....	3
1.2 Geographical Information	6
1.3 Transport	7
1.4 Methodology/ Philosophy of Route Selection	8
1.5 Map Study	9
1.6 Remote Sensing.....	10
1.7 Satellite Image (Google Map)	11
1.8 Updating of Base map using Satellite Imageries	11
1.9 Seismic and Wind Zone Details	13
1.10 Wind Zone Details	14
1.11 Methodology for Route Identification.....	15
1.12 Route survey techniques.....	16
2.0 Environmental Impact Assessment	18
2.1 Forest involvement / Clearance	18
3.0 Project Cost	18
4.0 Features & Methodology of DGPS survey	18
5.0 Approvals and Clearances	20
6.0 Notification & DGPS Survey MAPS	20

CERTIFICATE



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W.B - 712401**

CERTIFICATE

This is certify that the D.G.P.S. Survey of Govt. forest land proposed to be diverted in the Chatra & Lather forest Division of Chatra & Latehar District. Forest land under these Division surveyed area is 54 hectare (approx.) done by us as per the guidelines of the Forest Conservation Act 1980 for North Karanpura-Chandwa Transmission line of M/S North Karanpura Transco Limited and the co-ordinates of Boundary points are corrected on our knowledge.

The work done is as follow:

1. Create one Base point with fixation of two ground control points on static mode.
2. Survey of boundary Pillars by Using DGPS and fixed up its Ground position and preparation of Geo-reference Cadastral plan/Forest map.
3. The Geo-referenced Cadastral plan/Forest map prepared using DGPS and superimposed vectorised SOI toposheet map.
4. Prepared DGPS survey report and soft copy of all above maps in standard format and Digitised maps in shape file and KML for imported in any GIS database.
5. Above work done by using D.G.P.S(MODEL:SOUTH S86951117129458 GEM, SOKKIA:1144-11210)

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Reg.no-192110866898
PAN no-BFMPD1486B

Thanking you
For Geotech Infra



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1.0 PROJECT DETAILS

1.1 Introduction

With the introduction of Electricity act 2003, competition was brought into power sector and its sub sectors. Power generation business was delicensed which led to huge capacity addition by the private sector and this warranted transmission network to be reinforced so that all the power generated could be supplied to the end users. The provision for independent transmission licenses were created for private sector to get in to the business.

The Government of India, Ministry of Power, vide Gazette Notification dated July 08, 2014 has notified REC Transmission Project Company Ltd. to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Transmission System for “Immediate Evacuation for North Karanpura (3X660MW) generation project of NTPC along with creation of 400/220kV Substation at Dhanbad (ERSS-XIX)” through tariff based competitive bidding process.

The BPC invited Bids for selection of Transmission Service Provider to establish the Transmission System for “Immediate Evacuation for North Karanpura (3X660MW) generation project of NTPC along with creation of 400/220kV Substation at Dhanbad (ERSS-XIX)” (hereinafter referred to as 'Project') on Build, Own, Operate and Maintain basis, and to provide transmission service on a long term basis to the Long Term Transmission Customers. As part of said project the Special Purpose Vehicle (SPV) is formed “North Karanpura Transco Ltd.” to develop the proposed project.

a) Project Scope

Project scope will include:

Sr. No.	Scheme/ Transmission Works	
Immediate Evacuation for North Karanpura (3X660MW) generation project of NTPC		
1	North Karanpura – Gaya 400kV D/C line with quad moose conductor	23 Months
2	North Karanpura – Chandwa (Jharkhand) Pooling Station 400kV D/c line with quad moose conductor	14 Months
Creation of 400/220kV Substation at Dhanbad (ERSS-XIX)		
3	Establishment of 400/220 kV, 2x500 MVA sub-station at Dhanbad 400 kV <ul style="list-style-type: none"> ICTs: 400/220 kV, 2x500 MVA ICTs bays: 2 no. Line bays: 4 no. 400 kV bus reactor bays: 2 no. Bus reactor: 2x125 MVAR 	18 Months

Sr. No.	Scheme/ Transmission Works	
	<ul style="list-style-type: none"> Space for future bays: 4 no Space for future 400/220 kV, 500 MVA ICT along with associated bay <p>220 kV</p> <ul style="list-style-type: none"> ICTs bays: 2 no. Line bays: 4 no. Space for future bays: 4 no 	
4	LILO of both circuits of Ranchi – Maithon-RB 400kV D/c line at Dhanbad (Twin Moose)	18 Months

Note:

- NTPC would provide 2 no. 400kV line bays for North Karanpura – Gaya 400 kV D/c line at their North Karanpura generation switchyard.
- NTPC would provide 2 no. 400kV line bays for North Karanpura – Chandwa (Jharkhand) Pooling Station 400kV D/c line at their North Karanpura generation switchyard
- CTU (POWERGRID) would provide 2 no. 400kV line bays at Gaya (PG) for termination of North Karanpura – Gaya 400 kV D/c line.
- CTU (POWERGRID) would provide 2 no. 400kV line bays at under construction Chandwa (Jharkhand) Pooling Station (PG) for termination of North Karanpura – Chandwa 400 kV D/C line

b) Technical Specification

The technical requirements of this project has been brought out under the section “Technical specification” in the Request for Proposal (RFP) by BPC which has been evolved from the CEA technical standards and CTU practices. NKTL is mandated to adhere to these requirements during design, engineering and execution.

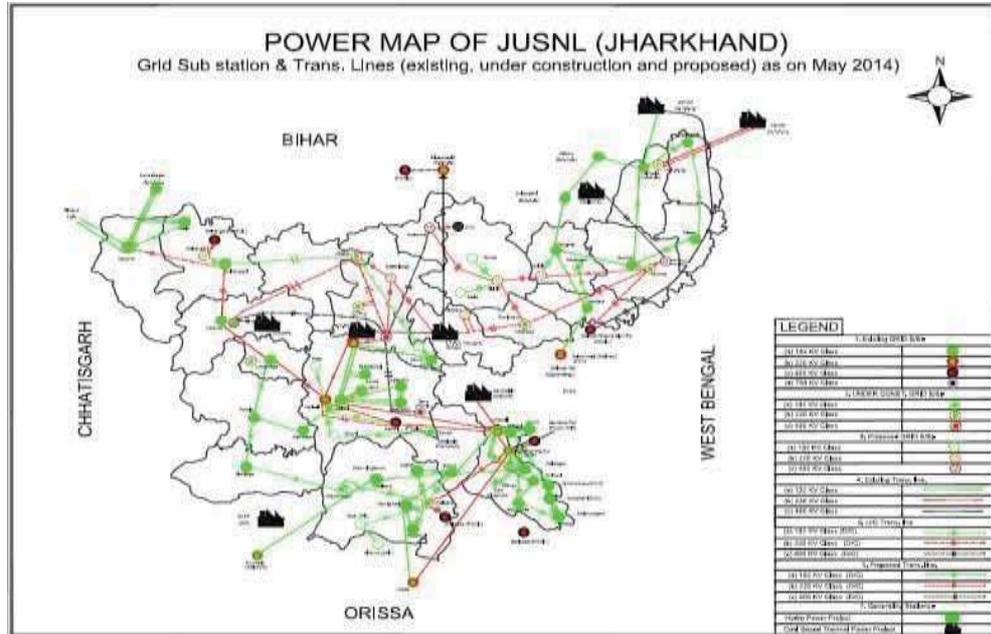
- Location of the Project:** The project is in Jharkhand (72%) & Bihar (28%) state. The North Karanpura – Chandwa 400 kV D/C line hereafter referred as “Project” in completely in Jharkhand state.

c) Topology of the Transmission system

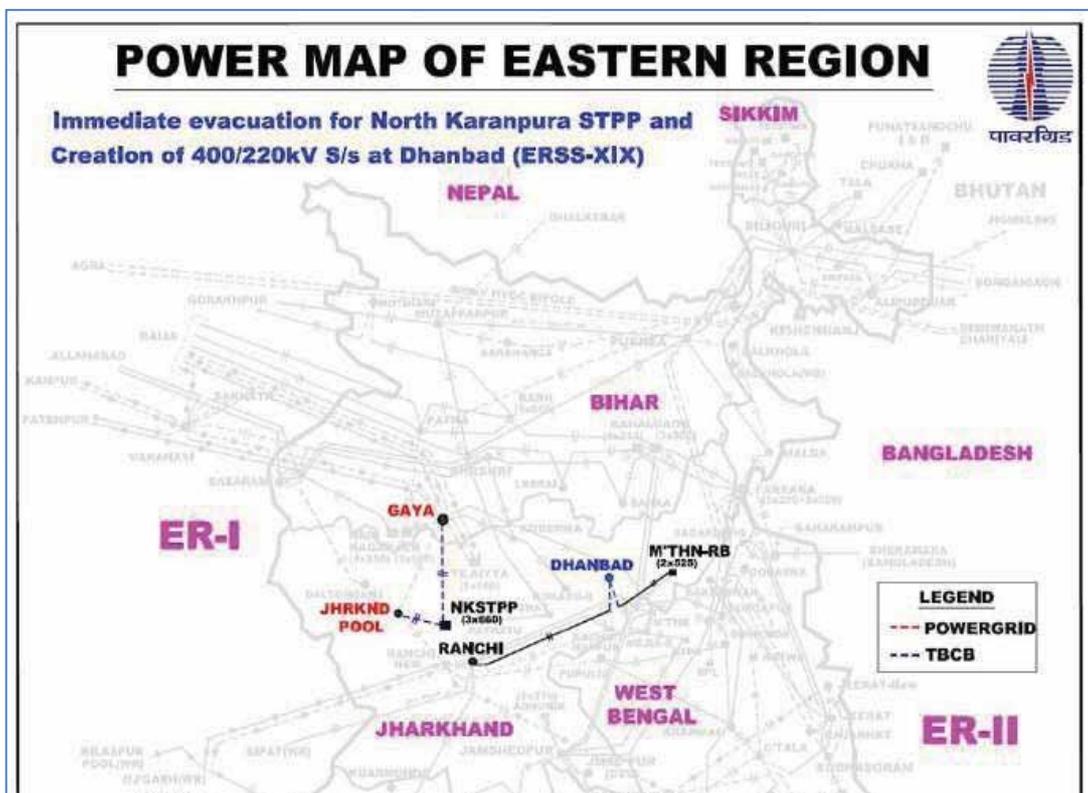
Sr. No.	Description	Tentative Line Length (km)
1.	400 kV D/C (Quad Moose) Karanpura – Chandwa Transmission Line	38.068

d) Power Map

- Jharkhand



e) SLD of Transmission Line



1.2 Geographical Information

1.2.1 Climate

Jharkhand experiences a moderate type of climate. The State witnesses cold weather from November to February. March to mid-June is hot with May being the hottest month. Hot winds blow during the day time. Mid-June to October is the time when the state experiences heavy rainfall. The rainfall ranges from 1,000 mm (in the west central part) to around 1,500 mm in the southwest regions. Maximum rainfall is during the months of July and August. The temperature in Jharkhand, during winters, ranges from 10 degree Celsius to 22 degree Celsius. During summer months, the temperature here varies from 20 degree Celsius to 37 degree Celsius.

1.2.2 Area

Jharkhand is encircled by the Indian states of West Bengal (east), Uttar Pradesh (west), Chhattisgarh (west), Bihar (north) and Odisha (south). Jharkhand is 'the land of forests' - endowed with rich flora and fauna. The state is spread out across 30,778 square Kilometres. Ranchi is the state's prime capital. Tropic of Cancer passes through Kanke, few kilometres away from Ranchi, the capital of Jharkhand, making it the only state in India touched by Tropic of Cancer.

1.2.3 Topography

The topography of Jharkhand is rich in minerals. The abundance in minerals also enhances the prospects of the industries in Jharkhand. It is noteworthy that although being an industrial belt, Jharkhand also provides enough scope for cultivation of crops, such as wheat, paddy, pulses, maize, etc. within the territory. Agriculture and industries flourish side by side within the territory of Jharkhand.

Soil and land resources help to plan for sustainable management of these natural resources. Red soil, black soil, sandy soil, micaceous soil, laterite soils are found in Jharkhand. The soil has been formed from disintegration of stones and rocks. Agro forestry and horticulture, plantation of trees, measures like terracing, bunding, trenching etc. have been resorted to for soil and water conservation. The fertility status of soil depends on nature of vegetation, topography, texture of soil, climate and decomposition rate of organic matter.

1.3 Transport

1.3.1 Roads

The JTDC (Jharkhand Tourism Development Corporation), which

is a state-owned organization, offers regular bus services to different parts of the state. Privately owned operators also run bus services.

The total length of State Highways is about 4,662 km. A two-lane road project between Govindpur (near Dhanbad) and Sahebganj is nearing completion. There are 12 National Highways in the state. The total length of National Highways in Jharkhand is 1,805 km. The National Highways running through the state are: NH-2,NH-6,NH-23,NH-31,NH-32,NH-33,NH-75,NH-78,NH-80,NH-98,NH-99,NH-100.NH-33 and NH-23 pass through Ranchi.

Buses ply regularly from Ranchi to other cities of Jharkhand. Three flyovers are coming up for smooth movement of traffic in the city. Most of the National Highways and other roads are being widened to 6 lanes or 8 lanes.

1.3.2 Rail network

The state of Jharkhand is situated in the eastern part of the country. The entire railway-route length in Jharkhand is 1,955 km. Ranchi is one of the most profitable stations in South-Eastern Railways. Goods-handling facilities are available in Ranchi, Dhanbad, Bokaro and Jamshedpur stations. There are various trains to reach the cities in Jharkhand from all over the country. Jharkhand has an extensive line of railway network including 97 main railway stations and many railway junctions. Some of the important railway stations in the state of Jharkhand include Barharwa Junction, Chandil Junction, Katrasgarh, Bokaro Steel City, Dhanbad Junction, Ranchi, Madhupur Junction, Tatanagar Junction, etc.

1.3.3 Air Ports

Jharkhand has two operational airports at Ranchi & Jamshedpur and One private airport at Bokaro. Birsa Munda Airport is a public domestic airport serving the city of Ranchi and is managed by Airports Authority of India. It is located in Hinoo locality, approximately 7 km (4.3 mi) from the centre of the city. It is the 37th busiest airport in India. Sonari Airport is a public airport located in Jamshedpur. Bokaro Airport is a private airport located in Bokaro Steel City. It is situated on National Highway-23 (Also known as the Bokaro-Chas road). There are no scheduled flights into this airport. Further, Tata Steel has proposed a new airport for city of Jamshedpur on 600 acres in the Adityapur - Seraikela area. The airport is to have a 7,000 feet long runway and will be able to handle Airbus A320 flights.

1.4 Methodology/ Philosophy of Route Selection

In order to execute such transmission system, precise planning, costing, scheduling etc. were required. Optimum deployment of resources also was of prime target in implementing this transmission system. It is essential that at the planning stage itself various alternative routes and technical solutions for transmission lines be examined in detail.

For undertaking such studies, one of the major requirements is obtaining adequate information regarding physical constrains, environmental factors etc. along the route so that optimum solutions are identified. Subsequently, during implementation of the project, it is required to obtain elaborate details about terrain, soil conditions, constraints etc. of the route for proper resource planning, costing etc. as well as reduction in implementation time.

Presently, conventional methods of survey like walk over survey, preliminary survey and detailed survey are carried out at various stages from conceptualization of the project to implementation, which are time consuming tasks. There are new means available which is used to conduct route survey using Google, DGPS based survey etc.

Following are the major factors taken into account while deciding the line route of the project as per the provisions of the acts and rules –

- Major habitation & settlement area avoided.
- Wild Life Sanctuary's, Biosphere's, dense forest avoided.
- Minimum vegetation / tree cutting in the line route
- Minimum no of River Crossings, Railway Crossings, Highway Crossings, and Power Line Crossings are considered.
- Lowest minimum forest area demand in the proposed route
- Archaeological structures, defense sites, airport area, etc. are avoided.
- Accessibility of approach road to the project site.
- Rich gardens, plantations, notified industrial area, etc. to be avoided.
- Economic viability of the route

1.4.1 Preliminary & Route Alignment Survey

Preliminary Survey included the following steps:

- Map study
- Walkover survey

Route survey was carried out for following benefits:

- To select optimal route from the alternatives for ease of construction followed by O&M with economy.

- Maintenance & additional construction cost can be brought to the minimum.
- Material Estimation and procurement can be done fairly on realistic basis.
- Limited Reserve/Protected/Private Forest Area.
- Proper planning can be done for networks keeping provision for future routes etc.
- Approvals from Railways, Civil Aviation, Forest authorities etc. can be obtained faster.
- Preparation of Master Network and fixing construction/erection targets can be done on realistic basis, which will help in the judicious planning of materials flow, cash flow and manpower requirements.
- Appreciable time can be saved during construction & maintenance of roads, if selection of Rivers, route along hill sections and power line etc., are properly made.

1.5 Map Study

- After drawing various routes of alignment network within the topo maps, a comparative study was made on the basis of the following data:
- Route length.
- Nos. and type of important road points in each indicating alignment of each road as measured on the map.
- Nature and number of major crossings.
- Mapping the industrial installations, structures, and important places for identification of Roads.
- Approach to the line in general for construction & maintenance.
- Reaches through protected or Reserved Forests
- Continuously long stretches in paddy fields.
- Close parallelism with Railway lines.
- Restricted areas such as civil and military airfield are avoided.
- Aircraft landing approaches are avoided.

Walkover Survey was carried out going over the area associated with the routes and collecting features observed other than those existing on the map. In addition the indications on following features are also checked.

- Communication lines
- Accessibility and smoother approach.
- Logistics of the route.
- Economic viability of the route.
- Existing and Present course of River

- Power lines (existing)
- Expanding villages and towns
- Rich gardens and plantations

- Reserved forests and high tree areas
- National Parks & Wild life sanctuaries
- Archeological monuments
- Aerodromes, radar centers etc.
- Steep sloping terrain, Areas prone to landslides, soil instability etc.
- Prohibited areas declared under statutory regulations

1.6 Remote Sensing

Remote Sensing is modern technique in mapping sciences. It is now a major tool to map any area on earth's surface for transmission of power. The planning for installation of large transmission towers needs proper planning. For this, updated base maps are required. Remote sensing imageries can help in updating of the available topographic maps. The recently launched satellites like IKONOS, IRS-1C, 1D (PAN) having its very good spatial resolution of 1mt and 5.8mts through digital image processing techniques; it is able to identify even small features with the resolution as given above.

To select site for putting new transmission towers and lines especially in hilly terrains, the density of trees, elevation differences has to be carefully studied in detail. In such cases, remote sensing is the main technology, plays a vital role for the preparation of database on landforms, land use / land cover and related database. Integrating these information in GIS platform, it is able to generate three dimensional terrain model (DTMs) of the area, which can be further updated with the multi dated satellite images and aerial photographs also. Digital Photogrammetry is the potential technology to provide the information's on terrain elevation which has to be studied before locating site for transmission towers and lines. This has found great success in many European countries but yet to be implemented in the developing countries like India.

1.7 Satellite Image (Google Map)

Satellite Images were used as most authoritative document to record latest topographical changes along the surveyed routes. This involved the initiations of the following activities.

- Transferring of images to studios for processing and detailed measurements.

- Ground Verification was undertaken to study the authenticity of the images.

Camera is supposed to see topographic details vividly, that is the only reason, why satellite images are used in detailed survey in comparison to the traditional field work. The ground profile in digital form could be obtained from satellite images, which in turn enable the user to estimate various types earthwork involved like benching, revetments etc. could be computed by using the relevant software.

Appropriate techniques for obtaining soil conditions, depth of ground water, terrain conditions etc. for correct estimation of civil works could be explored.

Due to “Shadow Effect”, some errors crop up in the satellite imageries, which affect the preliminary surveys, and it becomes difficult to differentiate between the forests and other greenery, consequently it becomes difficult to mark the forest boundaries etc.

- Proper resolution plays an important role in interpreting satellite images; higher resolution improves the quality of visual Context and may differentiate the ground realities closely.
- Relief data and subsoil data cannot be assessed from Satellite imageries.
- Digitization of Complete Zonal maps, rather selected features would provide a complete replica in integrated environment.
- Satellite data of resolution 1 – 5.8m will be preferable. However, the overall cost economy shall have to be worked out, as this data will be more costly, but will avoid field assignment in many places.
- Symbols of physical features in satellite imageries are not easily recognized by transmission line engineers.

1.8 Updating of Base map using Satellite Imageries

Digital maps prepared are subjected to refinement by using imagery. Details of Topography which might have undergone changes between the period of topographic survey and input of satellite imagery, like the rivers and nala courses, forestry and vegetation, highways and rail routes are re-incorporated in the digitized drawings, by using satellite imageries. The regions where the topography does not match with the imageries, ground verification survey is undertaken. IRS 1D PAN & LISS III images were procured from NRSA. The satellite imagery rectifications include Geo-referencing, ortho-rectification, transformation and projections. The images are rectified using ERDAS Imagine Software. The digitization process involves on screen digitization of imagery using AutoCAD Map and Map Info Software.

a) Satellite Data Selection

For updating of base maps NRSA Pan (5.88 m) and LISS-III (23.5 m) merged imagery are used.

b) Satellite Data Pre-Processing

This phase includes the standard operations of geometric correction and registration of the satellite images into the required Co-ordinate System. Ground control points (GCP's) on the satellite images and on the topographic/paper maps are identified and the linear geometric correction functions available in the ERDAS Images 8.3.1 are applied.

c) Satellite Data Classification

For unsupervised classification, the ISODATA methods are applied, and for supervised classification, the Maximum Likelihood Classification (MLC) is preferred. To identify the sample areas for supervised classification, specific procedures and information from topographic/paper maps are used together with thematic maps and expert knowledge of the terrain after field checking.

d) Satellite Data Interpretation and Vectorization of the Resulting Units

Interpretation and vectorization on the screen, available in Arc View shape format are preferred because polygons created have vector format and can be directly transformed to a land base maps. In order to update line features (railroads, roads, streams) the ERDAS Imagine's Edge Enhancement filter is used.

e) Classification

A Comprehensive and standardized classification system would be created for mapping exercises. The classification of features would use a set of criteria that would allow correlation with existing classifications and legends for creation of land base map.

f) Field Checking

Field visits would be undertaken in all areas under study to collect terrain information and interpretation keys useful for image interpretation. Later, field checking would be carried out to test accuracy of image interpretation at selected sites and to clarify interpretation assumptions. GPS would be used to precisely locate the ground sites investigated.

g) Composition of final Land Base Maps

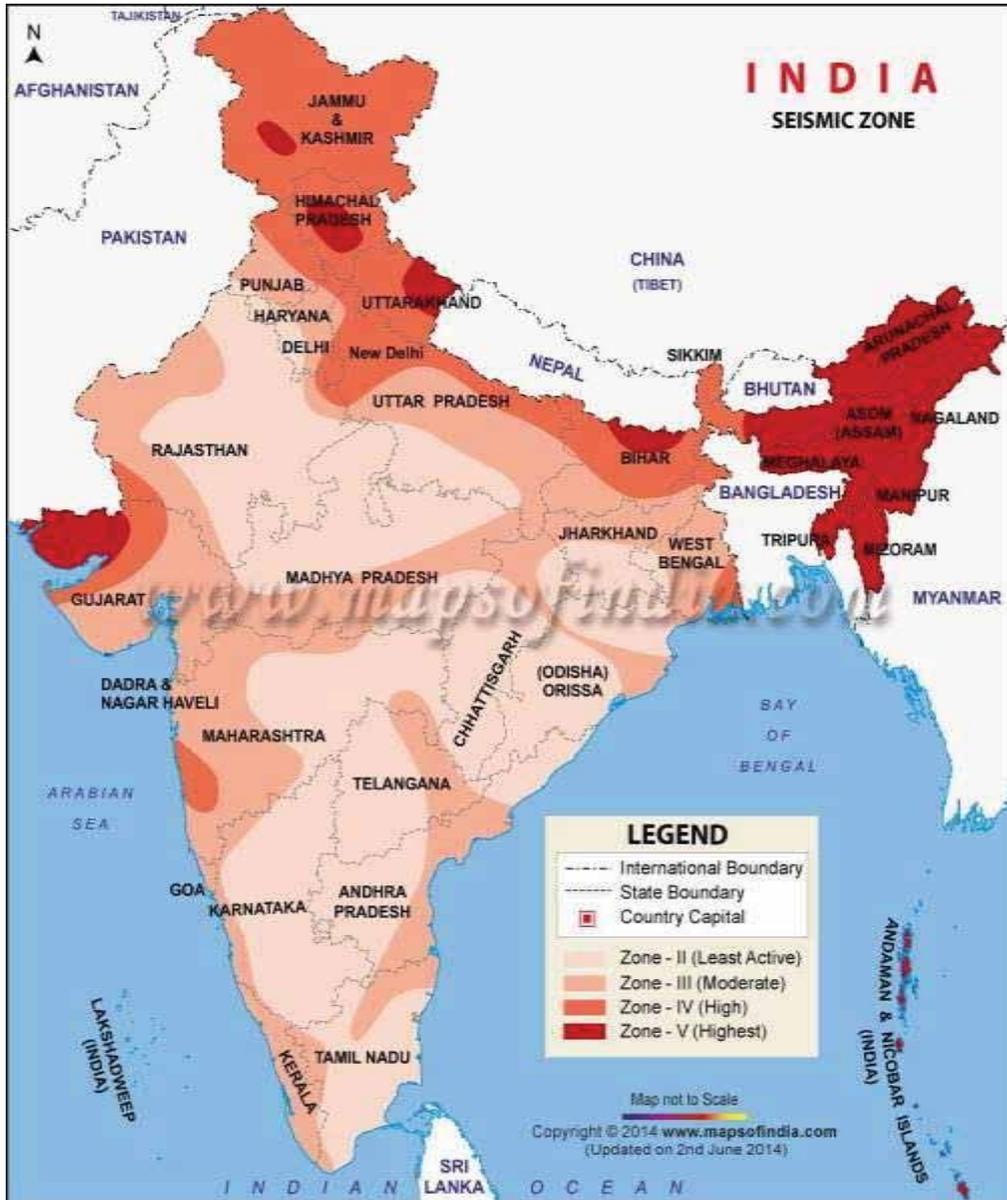
Vector shape files would be created manually, in Arc View using both the original image and the result of the supervised classification in the background to provide a basis for visual interpretation.

1.9 Seismic and Wind Zone Details



India has been divided into five seismic zones depending on the intensity of earthquake. Zone 1 represents the safest zone while the Zone 5 is the most vulnerable and prone to high intensity earthquakes.

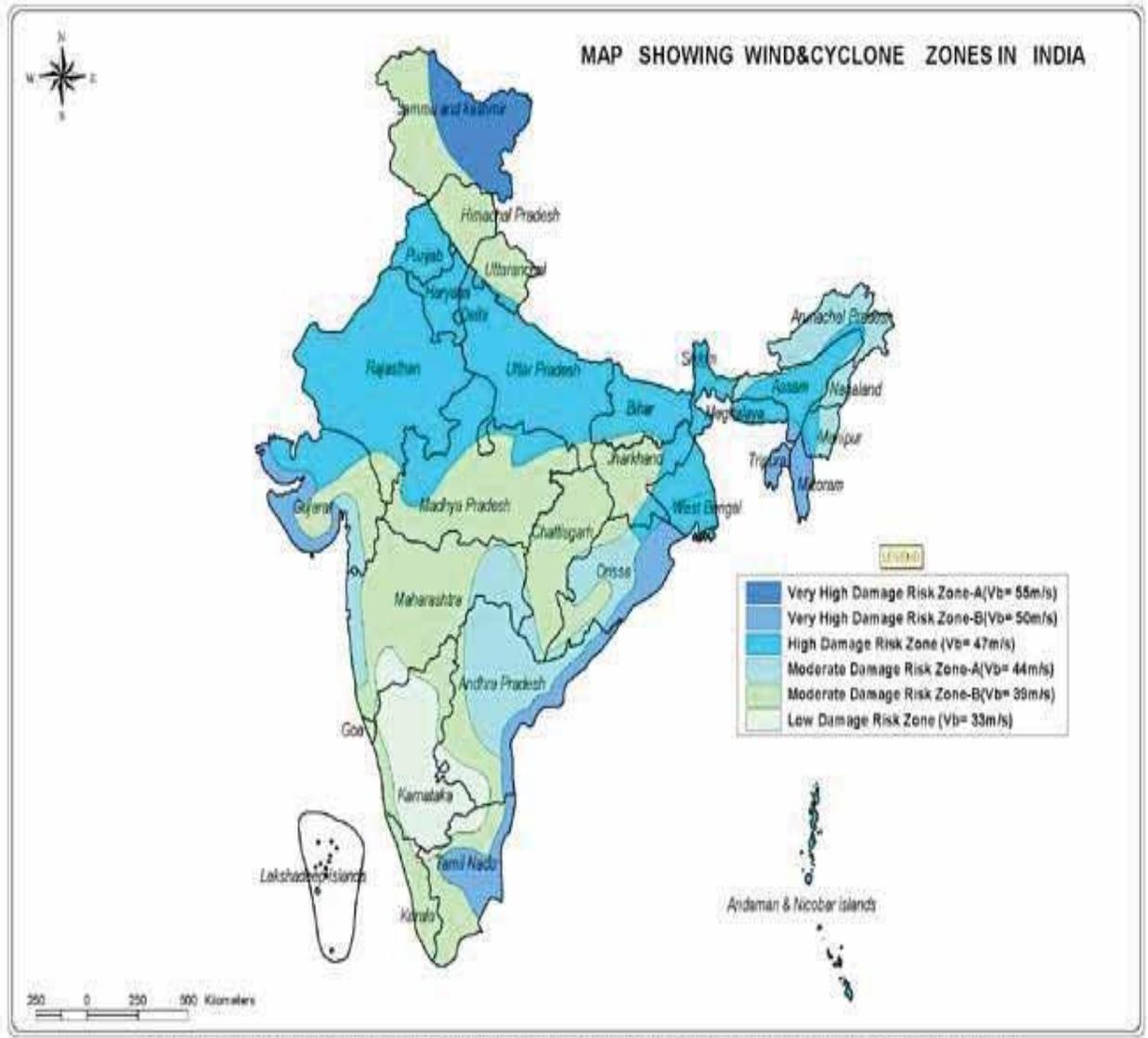
Location showing the Seismic zones of India is attached below:



1.10 Wind Zone Details

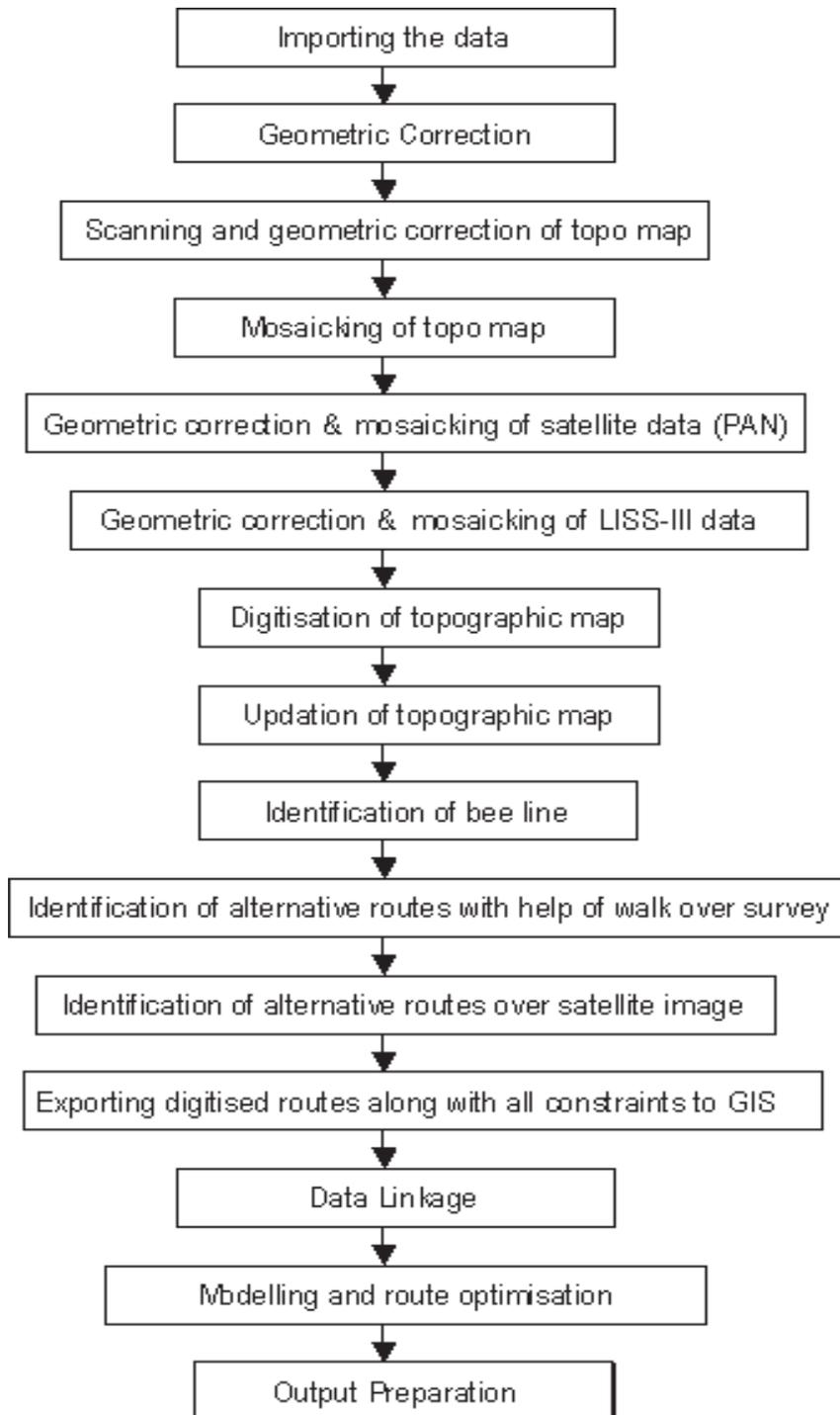
The proposed line routes passing through the following:

Location showing the Wind zones of India is attached below.



1.11 Methodology for Route Identification

Fig 9.1 Flow Chart of the Methodology for Route Identification



1.12 Route survey techniques

Three (3) alternate route alignments were carried out by help of satellite images available in google map. Physical walk over survey was conducted on all the three routes and GPS coordinates were collected at every 100 meters along with soil strata. Based on the information so collected, the best route was selected after evaluation of factors like, minimum forest coverage, angle points, river crossing, power line crossing, habitation etc.

The Infrastructural Details along the Routes are as follows:

1.12.1 400 kV D/C (Quad Moose) Karanpura–Chandwa Transmission Line

Name of Proposed Transmission line between	:	400 kV D/C (Quad Moose) Karanpura–Chandwa Transmission Line	
District	:	Chatra and Latehar	
Total No. Angle Points	:	51	
Total Route Length	:	38.068 km (bee length 29.789 km)	
Terminal Points		GE Karanpura : E :298131 N :2638959 GE Chandwa: E :298131 N :-2638959	
Major Crossings along the route :			
Total H.T. Line	:	Total = 3 Nos 220kV D/C (2 Nos.) and 400 kV D/C(1 nos)	
Total Railway Line	:	1 nos. Under Construction	
National Highway (NH)	:	2 NOS	
State Highway (SH)	:	1 no	
River Crossing	:	Major River :	NIL
	:	Minor River:	NIL
Forest /Sanctuary	:	12.092 Kms (PF & GM Jungle Jhari)	

Towns, Cities & villages along the route	:	The route alignment is avoiding towns/inhabitants	
Minerals in the route corridor	:	Nil	
Type of Crops, Fruits, Forest Land, Hill are along the route	:	a) Crops	Rice, Aarahar, Maize, Sugarcane and Wheat etc.
	:	b) Soil	Normal Dry, Wet, Wet Paddy, Wet, PS, FS, DFR & Hard Rock. Soil Investigation report shall be furnished on later date
	:	c) land	Plain (100%)
	:	d) Hill	HILL (0%)
Land involvement	:	Combination of Sparse Open Scrub, Govt. Land, Forest Land, barren and agriculture land	
Climate	:	Seasons	Summer= March to June, Rain = July to September, Winter = October to February
	:	a) Maximum Temperature	46°C
	:	b) Minimum Temperature	19 C
Specific features	:	This alternative route-1 is more suitable for construction as well O&M prospective compared to route-2 & 3. Hence, Route-1 is recommended.	

1.12.2 Legal Frame Work

It is proposed to execute the above entire transmission system as per provisions contained in the Indian Electricity Act 2003 and the rules made there under and the Electricity (Supply) Act 1910 and 1948, so far as these are applicable.

The following regulatory and Government approval will be taken. :-

1. Transmission License from CERC.
2. Approval of under section 68 of Indian Electricity Act 2003.
3. Approval of under section 164 of Indian Electricity Act 2003.
4. Tariff Adoption from CERC.

2.0 ENVIRONMENTAL IMPACT ASSESSMENT

2.1 Forest involvement / Clearance

As per the practice, preliminary route selection is done based on such documents as the Forest Atlas and the survey of India maps using “bee” line method followed by field clarification through walk over survey. All possible steps are taken to avoid the route alignment through forest. In case where it becomes unavoidable due to the geography of terrain, the alignment is made in such a way that the route through the forest is the barest minimum.

2.1.1 For selection of optimum routes following points are taken into consideration

- The route of the transmission line does not involve any human rehabilitation.
- Any monument of culture or historical importance is not getting affected.
- The route does not create any threat to the survival of any community with special reference to tribal.
- It does not affect any Public Utility Services like Play Ground, School, other Establishment, etc.
- It does not pass through any sanctuaries, Nation Park etc. if any alternative route is feasible.
- It does not infringe with areas of natural resources.
- Away from major towns to account for future urban expansion

In case where it becomes unavoidable due to the geography of terrain, the alignment is made in such a way that the bare minimum line route through forest is selected.

Name of Transmission line	Forest – Involvement (Approx. length in km)
400 kV D/C Karanpura–Chandwa Transmission Line	12.092 Kms

3.0 PROJECT COST

The total project cost including taxes and duties for the said transmission line works out to INR **104** crores.

4.0 Features & Methodology of DGPS survey

Differential Global Positioning System (DGPS) is an enhancement

to Global Positioning System that uses a network of fixed, ground-based reference stations to broadcast the difference between the positions indicated by the satellite systems and the known fixed positions. These stations broadcast the difference between the measured satellite pseudo ranges and actual (internally computed) pseudo ranges, and receiver stations may correct their pseudo ranges by the same amount.

Differential Positioning

- It is possible to determine the position of Rover 'B' in relation to Reference 'A' provided.
 - The coordinates of the Reference Station (A) are known
 - Satellites are tracked simultaneously
- Differential Positioning
 - eliminates errors in the sat. and receiver clocks
 - minimizes atmospheric delays
 - Accuracy 0.5 cm - 5 m A - B

The survey work has done with the help of Differential Global Positioning System survey. Starting DGPS Survey by making Two permanent reference point (Base Stations) by setting up, initialization of all the parameters of BASE Unit. One BASE point has been established. Than Initialization of the ROVER Unit in the same manner and each boundary pillars was established and fixed after 15 Minutes of reading on static mode and that's how 104 boundary points and two ground control points has been fixed. After the successful completion of the survey, All the RAW data collected from the field will be post process in the GNSS software, than Validation of the collected data by several methods & Geo-referencing of Cadastral map/Forest Compartment maps using software. Superimposition of output files on Geo-referenced Vectorized Cadastral map/Forest Compartment maps, SOI Toposheets.

5.0 APPROVALS AND CLEARANCES

Following approvals and clearances need to be obtained from the various authorities at the different stages of the project. Close follow up will be exercised for the timely approval of the below items.

Sl. No.	Statutory Clearances	Concerned Authority	Remarks
A	Required prior to construction		
1	Approval Under section 68 of E.A 2003	MoP	Shall be handed over by Bid Process Coordinator at the time of SPV takeover
2	Approval Under section 164 of E.A 2003	CEA	
3	Transmission License	CERC	
4	Tariff Adoption	CERC	
B	Required during/after construction		
5	Forest Approval	MoEF	During Construction. Required for particular stretch of line passing through forest.
6	Aviation	AAI	Before Charging of Line.
7	PTCC clearance	PTCC	Before Charging of line
8	Power Line Crossing	Concern Utility	During Construction. Required for particular crossing span.
9	Railway Crossing	Railway Authority	During Construction. Required for particular crossing span.
10	National Highway Crossing	NHAI	During Construction. Required for particular crossing span.
11	Final Charging Clearance approval	CEA	Before Charging of System

6.0 NOTIFICATION & DGPS SURVEY MAPS:



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



0.25 0.125 0 0.25 Kilometers

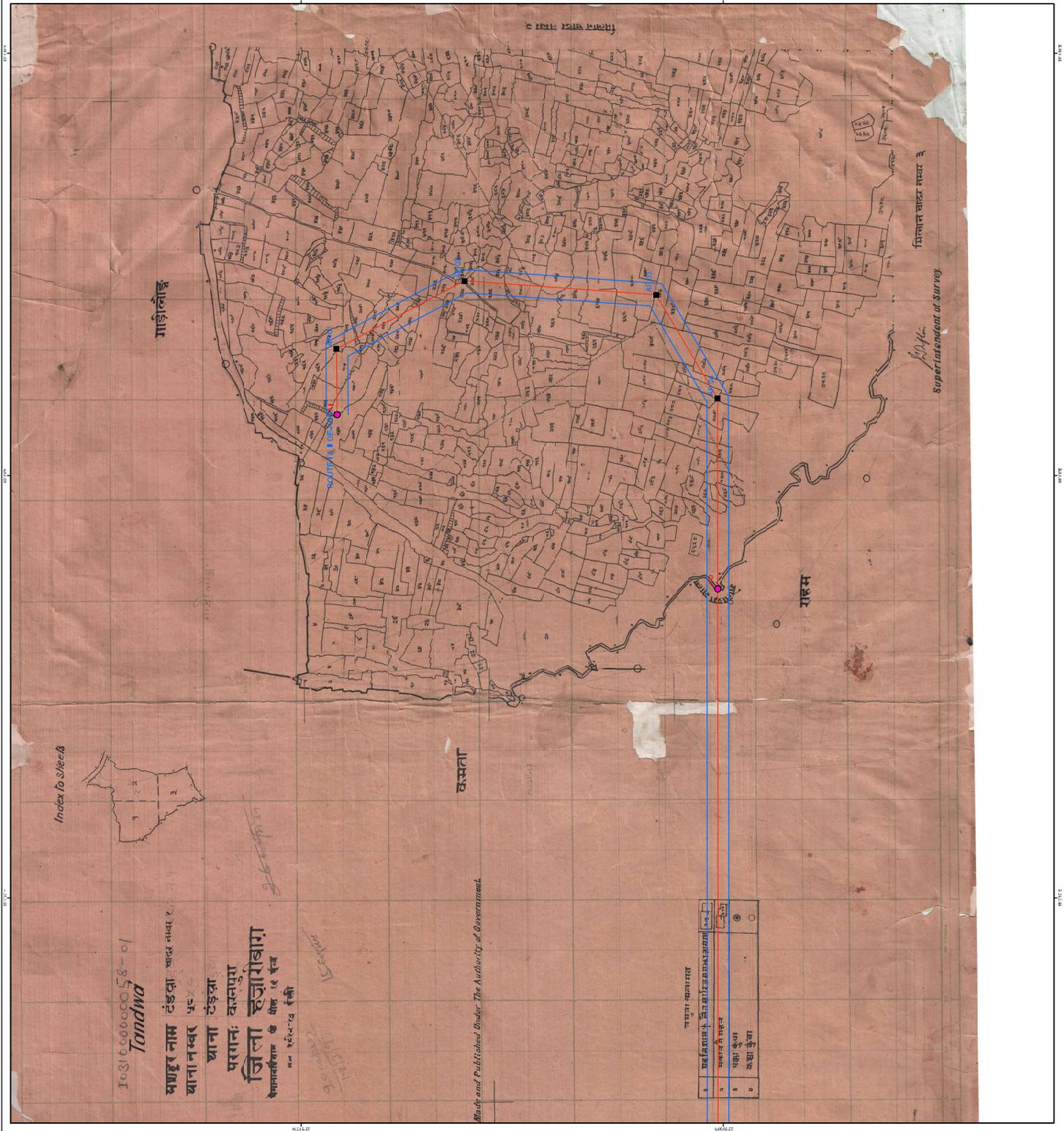
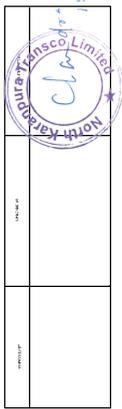
Legend

- TOWER LOCATION
- IN & OUT COORDINATES
- TRANSMISSION LINE

GEOREFERENCED COORDINATES POINT

COORDINATES ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
A1	85°14.18' E 23°50'57.419" N	45N2981332689552 UTM
A2	85°21.55' E 23°50'58.359" N	45N2977272629125 UTM

DATE: 15/07/2019





GEOREFENCED COORDINATES POINT OF FOREST

COORDINATES ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
A1	85°0'47.079"E 23°50'30.39"N	45N2976342638127 UTM
A 0	85°0'37.374"E 23°50'30.387"N	45N2975292638131 UTM
1	85°0'30.903"E 23°50'29.621"N	45N2971762638110 UTM
2	85°0'31.142"E 23°50'30.218"N	45N2971832638128 UTM
3	85°0'30.925"E 23°50'30.261"N	45N2971762638130 UTM
4	85°0'30.609"E 23°50'29.621"N	45N2971672638110 UTM
5	85°0'20.51"E 23°50'29.617"N	45N2968812638114 UTM
6	85°0'20.428"E 23°50'29.697"N	45N2968792638117 UTM
7	85°0'20.068"E 23°50'29.617"N	45N2968892638114 UTM

- Legend**
- TOWER LOCATION
 - FOREST COORDINATES
 - 1:1 AMP
 - TRANSMISSION LINE



AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO	PLOT NO	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
RAJAHMUNDRY	RAJAHMUNDRY	RAJAHMUNDRY	03	796	1:1 AMP	0.017366	0.017366

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L

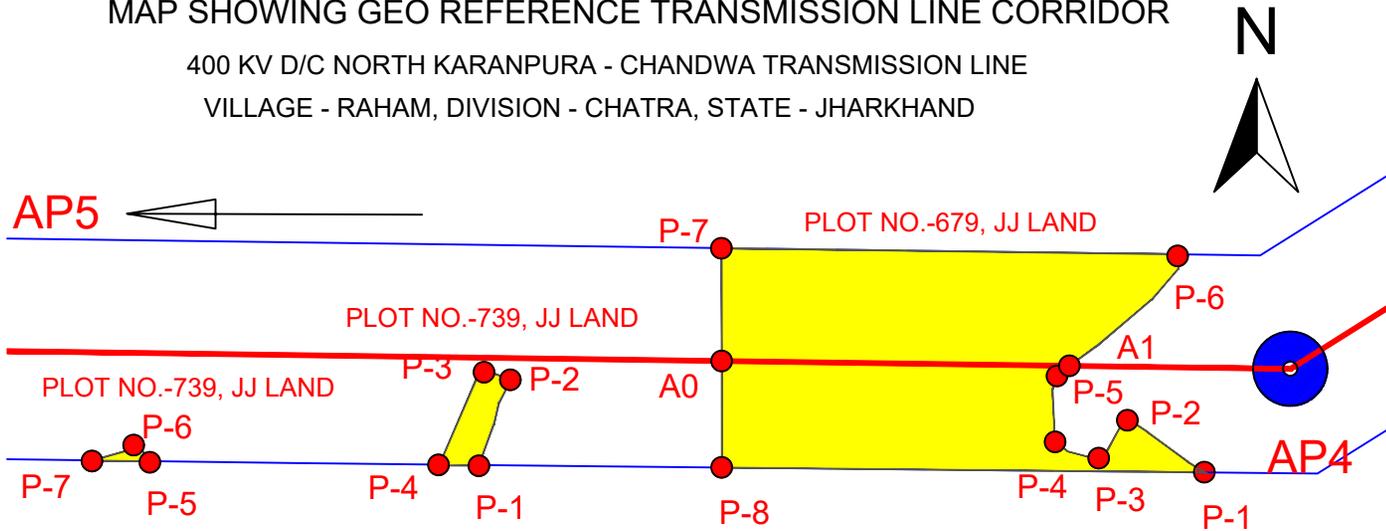
1:1 AMP

APPROVED BY	DATE	SCALE
		1:1 AMP

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - RAHAM, DIVISION - CHATRA, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

PLOT NO.-679, JJ LAND

Point No.	Easting	Northing
A1	297780.00	2638125.00
A0	297633.00	2638127.00
1	297797.00	2638102.00
2	297780.00	2638114.00
3	297774.00	2638105.00
4	297765.00	2638109.00
5	297765.00	2638121.00
6	297791.00	2638148.00
7	297633.00	2638151.00
8	297633.00	2638104.00
AP4	298154.19	2638120.68

PLOT NO.-739, JJ LAND

Point No.	Easting	Northing
1	297176.00	2638110.00
2	297183.00	2638128.00
3	297176.00	2638130.00
4	297167.00	2638110.00
5	296881.00	2638114.00
6	296879.00	2638117.00
7	296869.00	2638114.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area

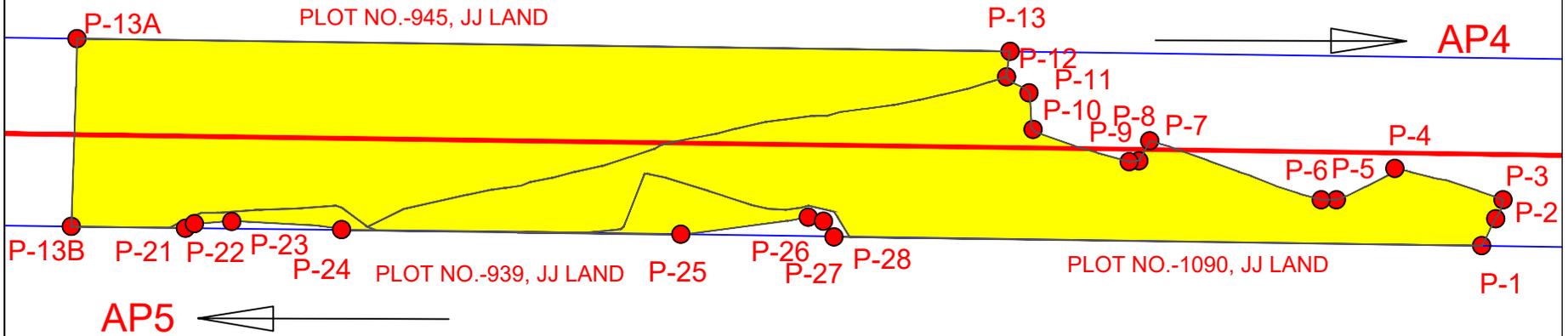


Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Chatra South					District : Chatra				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Raham	Tandwa	679				6776.000	Jungle Jhari	0.6776	1.2854
		739				167.000		0.0167	
Total						6943.000		0.6943	1.2854

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - KAMTA, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	297048.00	2638112.00
2	297053.00	2638120.00
3	297053.00	2638123.00
4	297026.00	2638131.00
5	297011.00	2638123.00
6	297007.00	2638123.00
7	296965.00	2638138.00
8	296962.00	2638133.00

Point No.	Easting	Northing
9	296960.00	2638133.00
10	296936.00	2638140.00
11	296935.00	2638150.00
12	296929.00	2638154.00
13	296930.00	2638160.00
13A	296696.00	2638163.00
13B	296695.00	2638117.00
21	296724.00	2638116.00

Point No.	Easting	Northing
22	296736.00	2638118.00
23	296757.00	2638117.00
24	296763.00	2638116.00
25	296847.00	2638115.00
26	296880.00	2638119.00
27	296883.00	2638118.00
28	296886.00	2638114.00

Legend

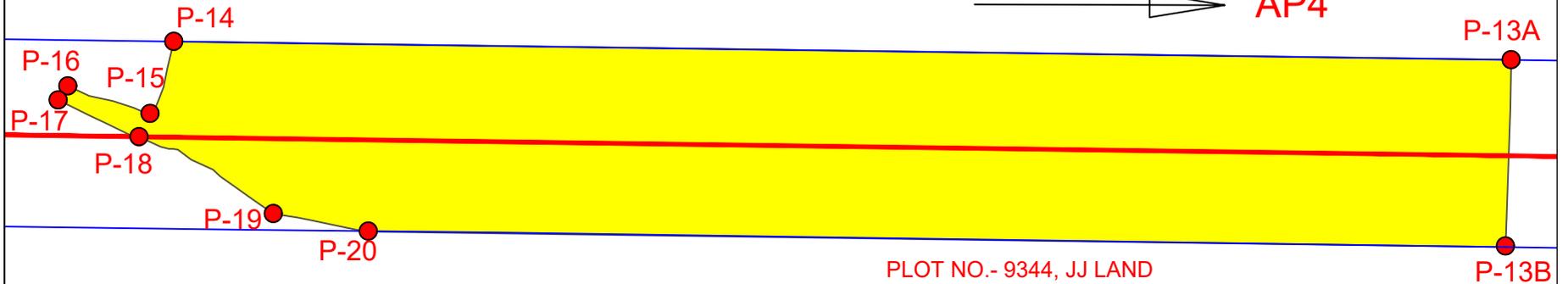
-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - KAMTA, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



AP4 →



← AP5

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

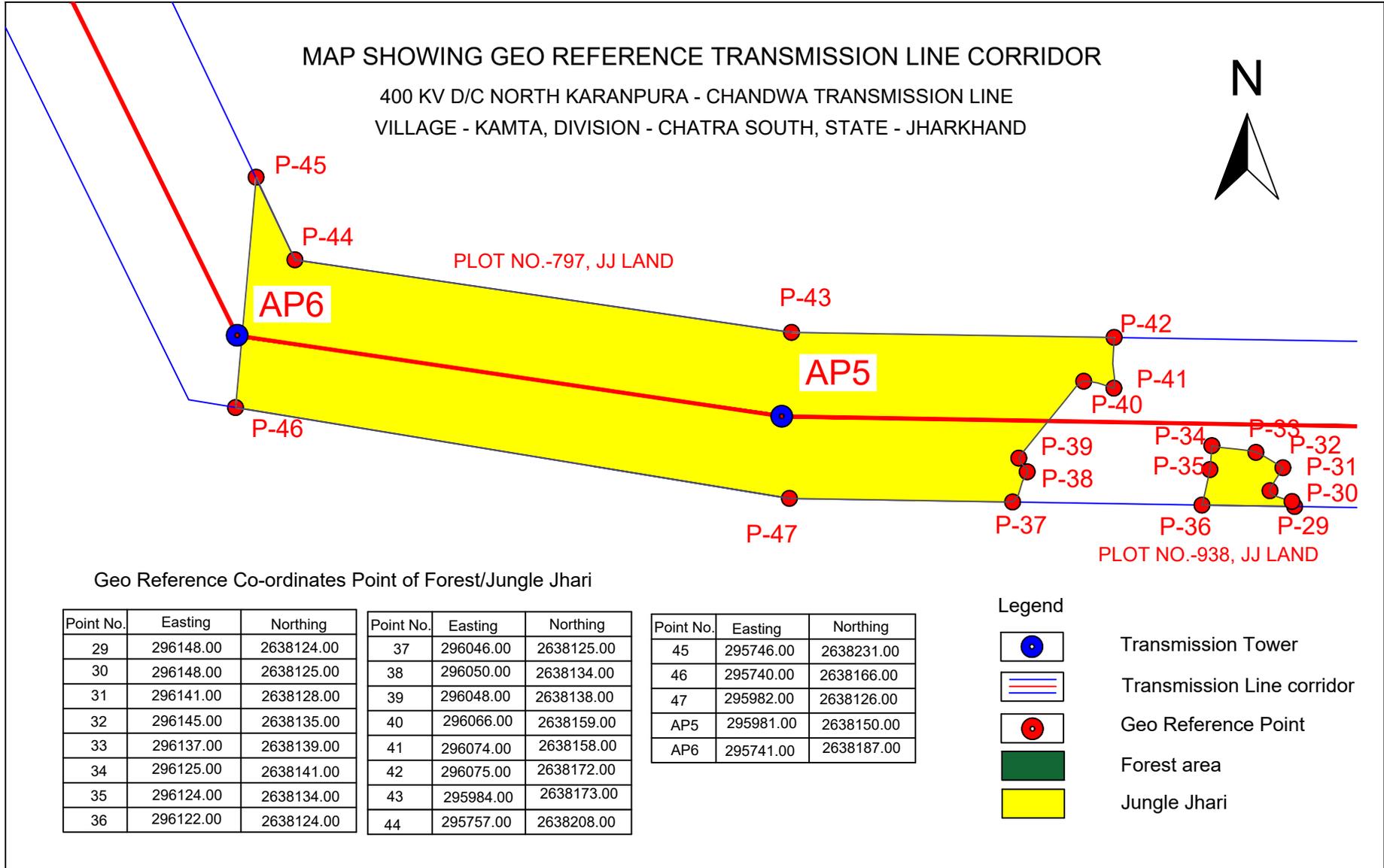
Point No.	Easting	Northing
13B	296695.00	2638117.00
13A	296696.00	2638163.00
14	296360.00	2638168.00
15	296355.00	2638150.00
16	296333.00	2638157.00
17	296331.00	2638153.00
18	296358.00	2638141.00
19	296385.00	2638125.00
20	296407.00	2638120.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - KAMTA, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
29	296148.00	2638124.00
30	296148.00	2638125.00
31	296141.00	2638128.00
32	296145.00	2638135.00
33	296137.00	2638139.00
34	296125.00	2638141.00
35	296124.00	2638134.00
36	296122.00	2638124.00

Point No.	Easting	Northing
37	296046.00	2638125.00
38	296050.00	2638134.00
39	296048.00	2638138.00
40	296066.00	2638159.00
41	296074.00	2638158.00
42	296075.00	2638172.00
43	295984.00	2638173.00
44	295757.00	2638208.00

Point No.	Easting	Northing
45	295746.00	2638231.00
46	295740.00	2638166.00
47	295982.00	2638126.00
AP5	295981.00	2638150.00
AP6	295741.00	2638187.00

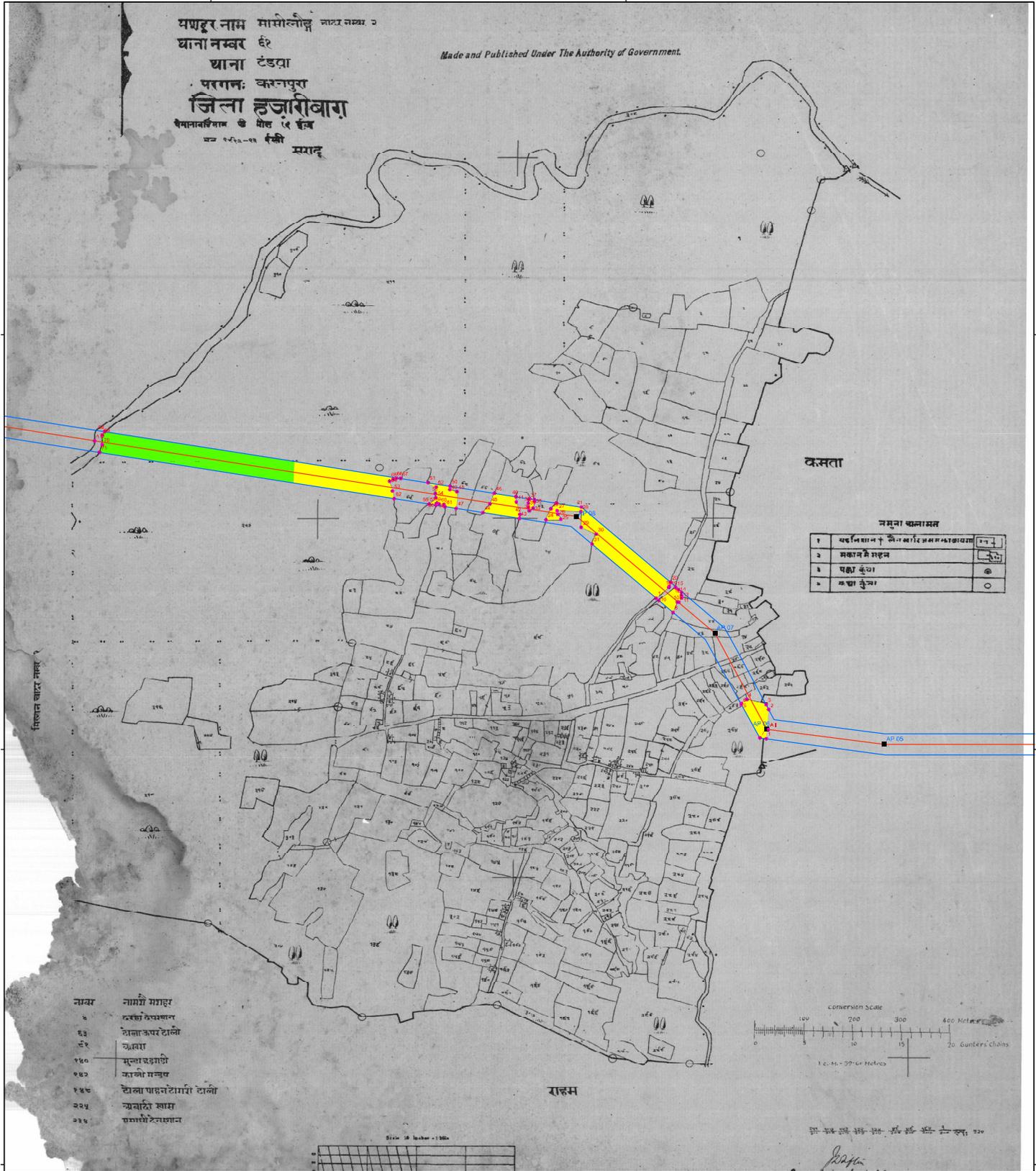
Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Chatra South					District : Chatra				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Kamta	Tandwa	1090				5376.0000	Jungle Jhari	0.5376	3.0393
		797				14779.0000		1.4779	
		934				15624.0000		1.5624	
		938				310.0000		0.0310	
		939				588.0000		0.0588	
		945				7210.0000		0.7210	
Total						43887.0000		4.3887	3.0393

पञ्चद्वार नाम मासोलोड्ड नगर नम्बर ३
 धाना नम्बर ६२
 धाना टंडवा
 परगना: करनपुरा
 जिला हजारीबाग
 पैमाना/दिशा/दि. मीटर १२ इंच
 म.सं. १२२-११
 ई.सी. मराठ

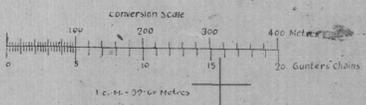
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नमूना धाना माल

१	धरनिघान के नि.न.का.दि.प्र.स.म.का.का.वा.मा.	म.सं.
२	मकान में मरुद	म.सं.
३	पक्षा बिंदा	म.सं.
४	कक्षा कुंदा	म.सं.

नमूना	नामगो माराह
६	दरवाजे करनपुरा
६३	धाना उपर टाली
६२	धाना
११६	मुला रक्षमणि
११२	काजी मन्थर
११३	टाली पाहन टोमरो टाली
२२५	न्यादादी खास
२२६	चामागे देवस्थान



GEOREFENCED COORDINATES POINT OF FOREST

COORDINATE	COORDINATE	COORDINATE	COORDINATE	COORDINATE	COORDINATE
82	83	84	85	86	87
88	89	90	91	92	93
94	95	96	97	98	99
100	101	102	103	104	105
106	107	108	109	110	111
112	113	114	115	116	117
118	119	120	121	122	123
124	125	126	127	128	129
130	131	132	133	134	135
136	137	138	139	140	141
142	143	144	145	146	147
148	149	150	151	152	153
154	155	156	157	158	159
160	161	162	163	164	165
166	167	168	169	170	171
172	173	174	175	176	177
178	179	180	181	182	183
184	185	186	187	188	189
190	191	192	193	194	195
196	197	198	199	200	201
202	203	204	205	206	207
208	209	210	211	212	213
214	215	216	217	218	219
220	221	222	223	224	225
226	227	228	229	230	231
232	233	234	235	236	237
238	239	240	241	242	243
244	245	246	247	248	249
250	251	252	253	254	255
256	257	258	259	260	261
262	263	264	265	266	267
268	269	270	271	272	273
274	275	276	277	278	279
280	281	282	283	284	285
286	287	288	289	290	291
292	293	294	295	296	297
298	299	300	301	302	303
304	305	306	307	308	309
310	311	312	313	314	315
316	317	318	319	320	321
322	323	324	325	326	327
328	329	330	331	332	333
334	335	336	337	338	339
340	341	342	343	344	345
346	347	348	349	350	351
352	353	354	355	356	357
358	359	360	361	362	363
364	365	366	367	368	369
370	371	372	373	374	375
376	377	378	379	380	381
382	383	384	385	386	387
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424	425	426	427	428	429
430	431	432	433	434	435
436	437	438	439	440	441
442	443	444	445	446	447
448	449	450	451	452	453
454	455	456	457	458	459
460	461	462	463	464	465
466	467	468	469	470	471
472	473	474	475	476	477
478	479	480	481	482	483
484	485	486	487	488	489
490	491	492	493	494	495
496	497	498	499	500	501
502	503	504	505	506	507
508	509	510	511	512	513
514	515	516	517	518	519
520	521	522	523	524	525
526	527	528	529	530	531
532	533	534	535	536	537
538	539	540	541	542	543
544	545	546	547	548	549
550	551	552	553	554	555
556	557	558	559	560	561
562	563	564	565	566	567
568	569	570	571	572	573
574	575	576	577	578	579
580	581	582	583	584	585
586	587	588	589	590	591
592	593	594	595	596	597
598	599	600	601	602	603
604	605	606	607	608	609
610	611	612	613	614	615
616	617	618	619	620	621
622	623	624	625	626	627
628	629	630	631	632	633
634	635	636	637	638	639
640	641	642	643	644	645
646	647	648	649	650	651
652	653	654	655	656	657
658	659	660	661	662	663
664	665	666	667	668	669
670	671	672	673	674	675
676	677	678	679	680	681
682	683	684	685	686	687
688	689	690	691	692	693
694	695	696	697	698	699
700	701	702	703	704	705
706	707	708	709	710	711
712	713	714	715	716	717
718	719	720	721	722	723
724	725	726	727	728	729
730	731	732	733	734	735
736	737	738	739	740	741
742	743	744	745	746	747
748	749	750	751	752	753
754	755	756	757	758	759
760	761	762	763	764	765
766	767	768	769	770	771
772	773	774	775	776	777
778	779	780	781	782	783
784	785	786	787	788	789
790	791	792	793	794	795
796	797	798	799	800	801
802	803	804	805	806	807
808	809	810	811	812	813
814	815	816	817	818	819
820	821	822	823	824	825
826	827	828	829	830	831
832	833	834	835	836	837
838	839	840	841	842	843
844	845	846	847	848	849
850	851	852	853	854	855
856	857	858	859	860	861
862	863	864	865	866	867
868	869	870	871	872	873
874	875	876	877	878	879
880	881	882	883	884	885
886	887	888	889	890	891
892	893	894	895	896	897
898	899	900	901	902	903
904	905	906	907	908	909
910	911	912	913	914	915
916	917	918	919	920	921
922	923	924	925	926	927
928	929	930	931	932	933
934	935	936	937	938	939
940	941	942	943	944	945
946	947	948	949	950	951
952	953	954	955	956	957
958	959	960	961	962	963
964	965	966	967	968	969
970	971	972	973	974	975
976	977	978	979	980	981
982	983	984	985	986	987
988	989	990	991	992	993
994	995	996	997	998	999
1000	1001	1002	1003	1004	1005

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO.	PLOT NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
CHHATRA	TANDWA	MASHAUNGA	261	781	FOREST	1.3808	1.3808
				332	0.8170		
				40	0.1326		
				69	1.1448		
				71	0.0048		
				86	0.0073		
				278	0.0064		
80	0.1786						
				333 GRANT		1.0451	

Legend
 ■ TOWER LOCATION
 ■ FOREST COORDINATES
 ■ FOREST AREA
 ■ LAND
 — TRANSMISSION LINE

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L

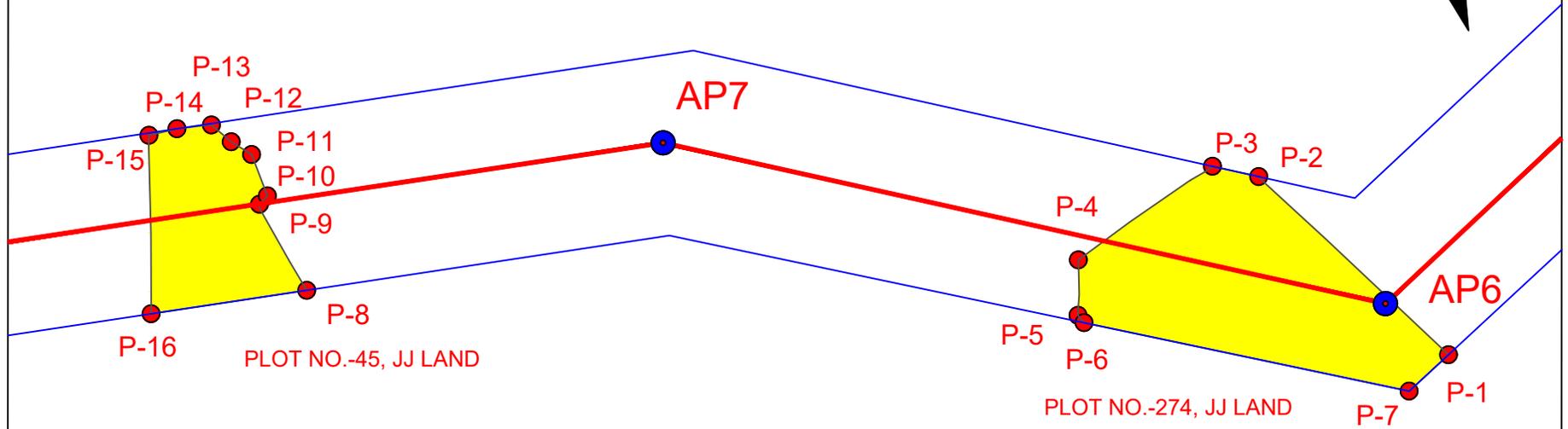
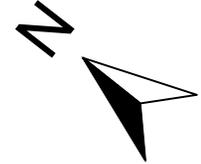


APPROVED BY: _____
 DATE: 15/11/18

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - MASILAUNG, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	295740.00	2638166.00
2	295746.00	2638231.00
3	295741.00	2638242.00
4	295702.00	2638254.00
5	295690.00	2638245.00
6	295690.00	2638243.00
7	295727.00	2638168.00
8	295553.00	2638450.00

Point No.	Easting	Northing
9	295563.00	2638473.00
10	295566.00	2638472.00
11	295571.00	2638482.00
12	295571.00	2638488.00
13	295571.00	2638495.00
14	295565.00	2638501.00
15	295559.00	2638505.00
16	295524.00	2638477.00

Point No.	Easting	Northing
AP6	295741.00	2638187.00
AP7	295638.00	2638403.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area

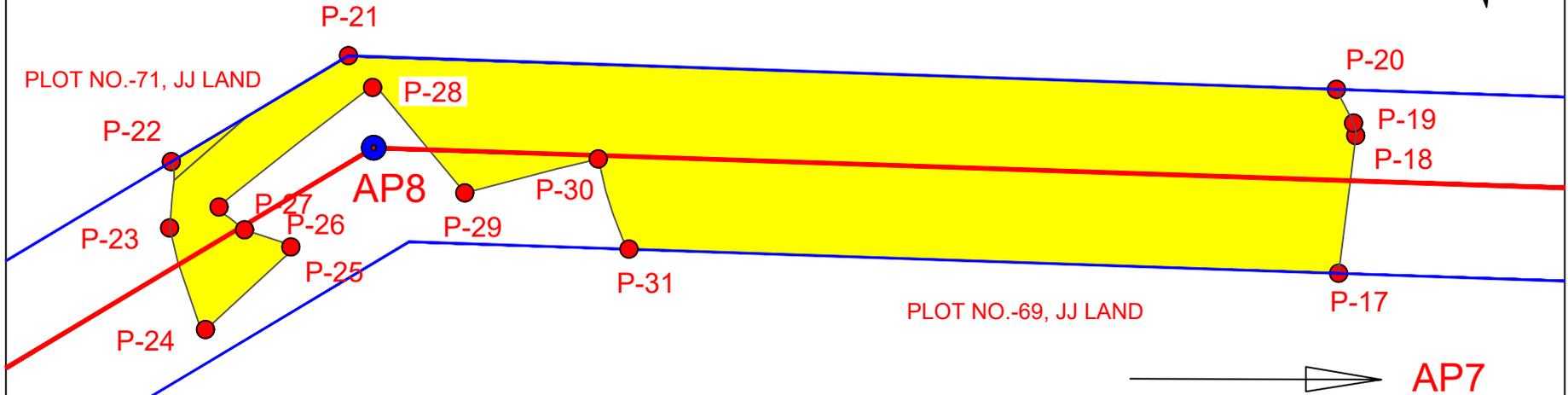
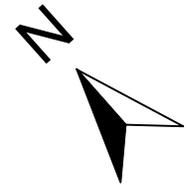


Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - MASILAUNG, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
17	295519.00	2638482.00
18	295545.00	2638506.00
19	295547.00	2638508.00
20	295549.00	2638517.00
21	295369.00	2638687.00
22	295318.00	2638696.00
23	295307.00	2638684.00
24	295296.00	2638660.00

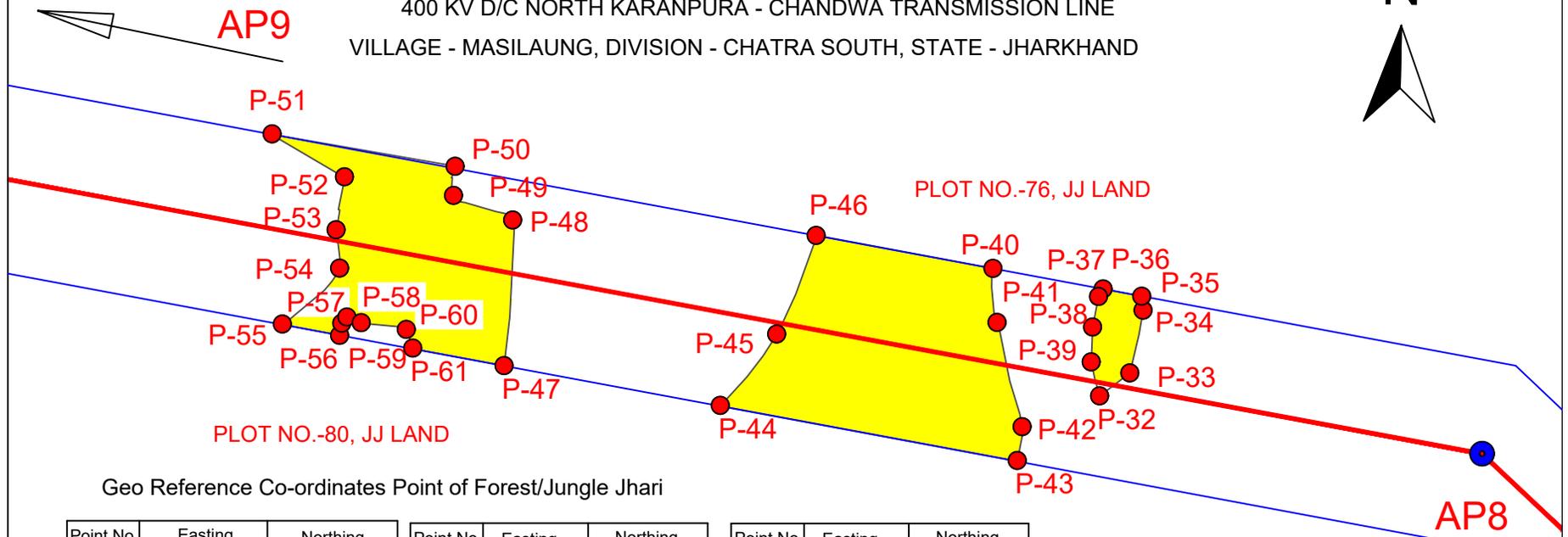
Point No.	Easting	Northing
25	295327.00	2638660.00
26	295321.00	2638671.00
27	295319.00	2638680.00
28	295368.00	2638677.00
29	295368.00	2638642.00
30	295399.00	2638626.00
31	295390.00	2638604.00
AP8	295359.00	2638666.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - MASILAUNG, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
32	295263.00	2638680.00
33	295270.00	2638686.00
34	295273.00	2638701.00
35	295273.00	2638705.00
36	295263.00	2638707.00
37	295262.00	2638705.00
38	295261.00	2638697.00
39	295260.00	2638688.00
40	295236.00	2638712.00
41	295236.00	2638700.00
42	295243.00	2638673.00

Point No.	Easting	Northing
43	295242.00	2638664.00
44	295167.00	2638677.00
45	295182.00	2638696.00
46	295192.00	2638720.00
47	295113.00	2638688.00
48	295115.00	2638725.00
49	295101.00	2638730.00
50	295101.00	2638737.00
51	295056.00	2638746.00
52	295073.00	2638736.00
53	295071.00	2638721.00

Point No.	Easting	Northing
54	295072.00	2638712.00
55	295058.00	2638698.00
56	295072.00	2638695.00
57	295072.00	2638698.00
58	295074.00	2638700.00
59	295078.00	2638698.00
60	295088.00	2638697.00
61	295090.00	2638692.00
AP8	295359.00	2638666.00

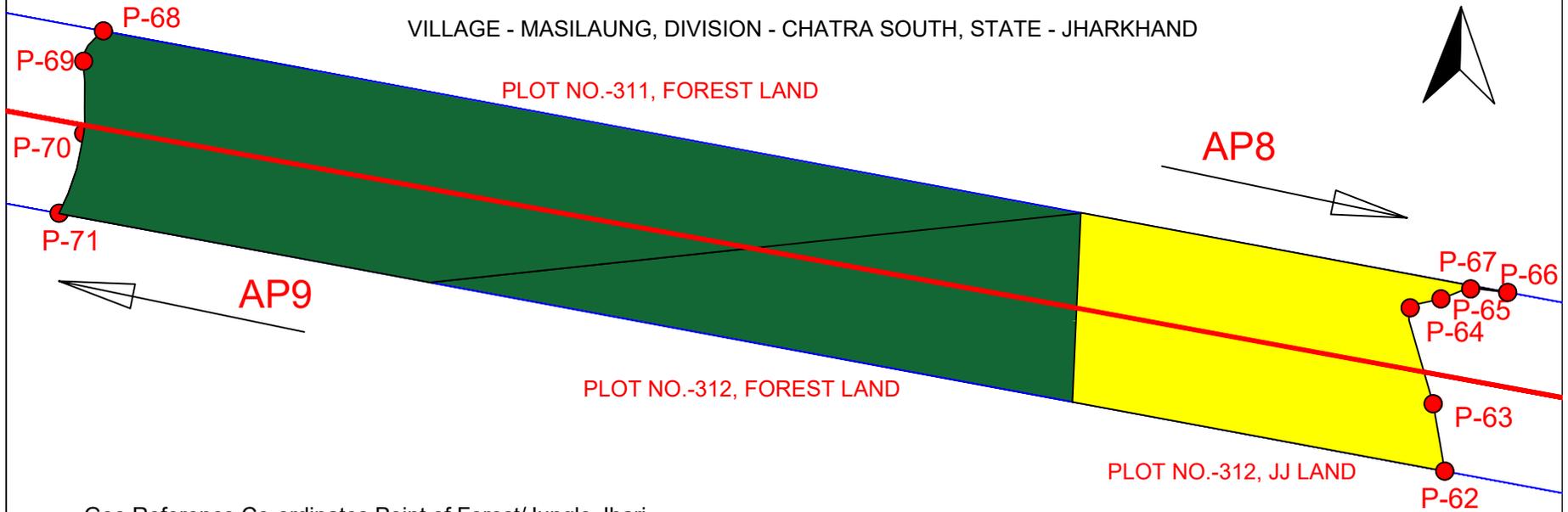
Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - MASILAUNG, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
62	294986.00	2638711.00
63	294983.00	2638728.00
64	294977.00	2638750.00
65	294985.00	2638754.00
66	294992.00	2638757.00
67	295000.00	2638756.00
68	294396.00	2638869.00
69	294391.00	2638861.00

Point No.	Easting	Northing
70	294391.00	2638840.00
71	294386.00	2638823.00

Legend

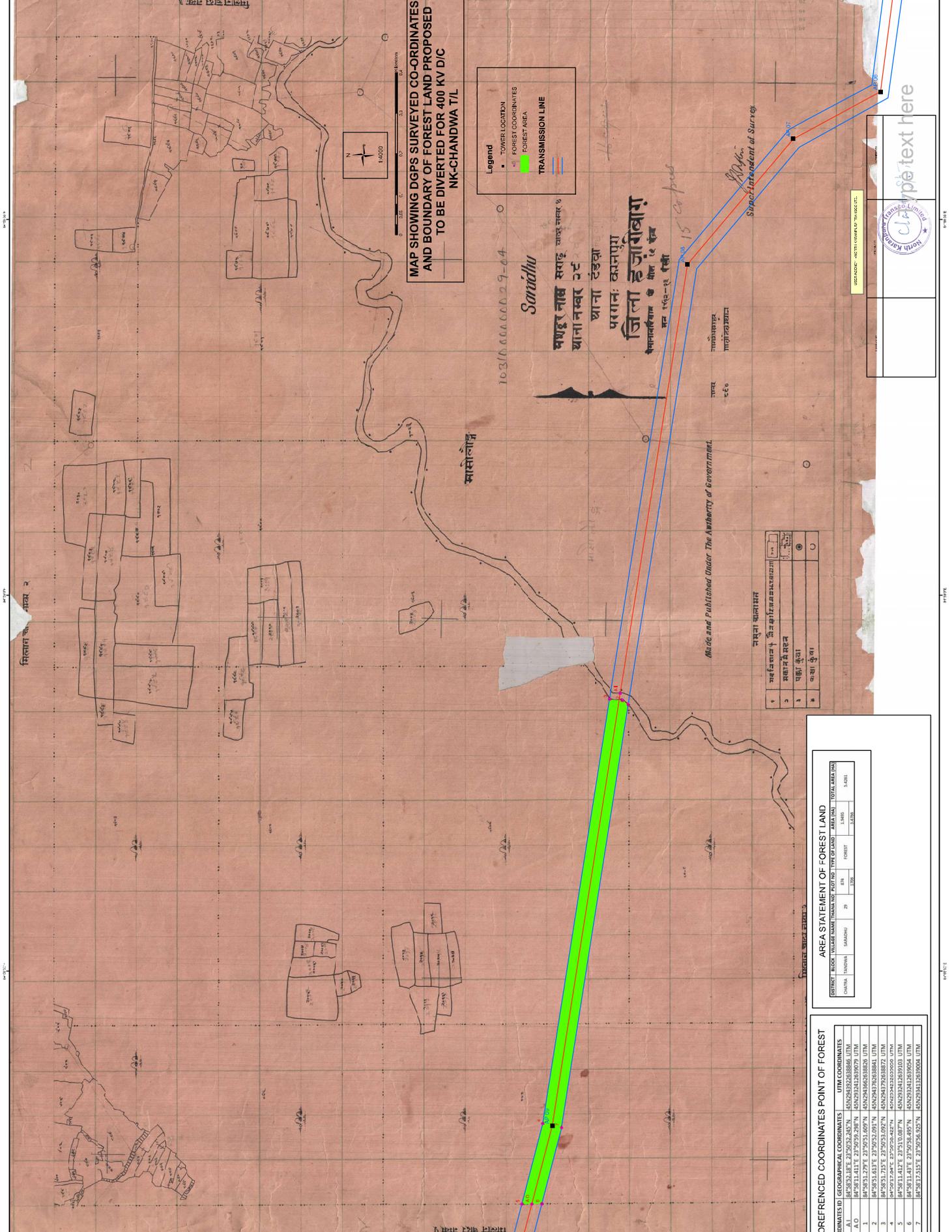
-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Chatra South					District : Chatra				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Masilaung	Tandwa	274				2883.0000	Jungle Jhari	0.2883	2.5322
		312				10450.0000		1.0450	
		45				1307.0000		0.1307	
		69				11146.0000		1.1146	
		71				48.0000		0.0048	
		76				2971.0000		0.2971	
		80				1786.0000		0.1786	
		311				11868.0000	Protected Forest	1.1868	
		312				6170.0000	Protected Forest	0.6170	
Total					48629.0000		4.8629	2.5322	

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L

Legend

- TOWER LOCATION
- FOREST COORDINATES
- FOREST AREA
- TRANSMISSION LINE



महानगर सयद्ध
 याना नखर रट
 थाना देडवा
 परगना: कनपुरा
 जिला: हजारीबाग
 भारत 741002

103/10.000.000.29-04
 Saridhu

15
 Superintendent of Survey

Made and Published Under The Authority of Government.

सर्वेक्षण कालावधि

1	सर्वेक्षण का दिनांक	10/03/2015
2	सर्वेक्षण का स्थान	103/10.000.000.29-04
3	प्लॉट नं.	103/10.000.000.29-04
4	कच्चा क्षेत्र	103/10.000.000.29-04

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	TANKA NO.	POST NO.	TYPE OF LAND	AREA	TOTAL AREA (HA)
CHANDA	TANDWA	SARIDHU	29	103	FOREST	1.4021	1.4021

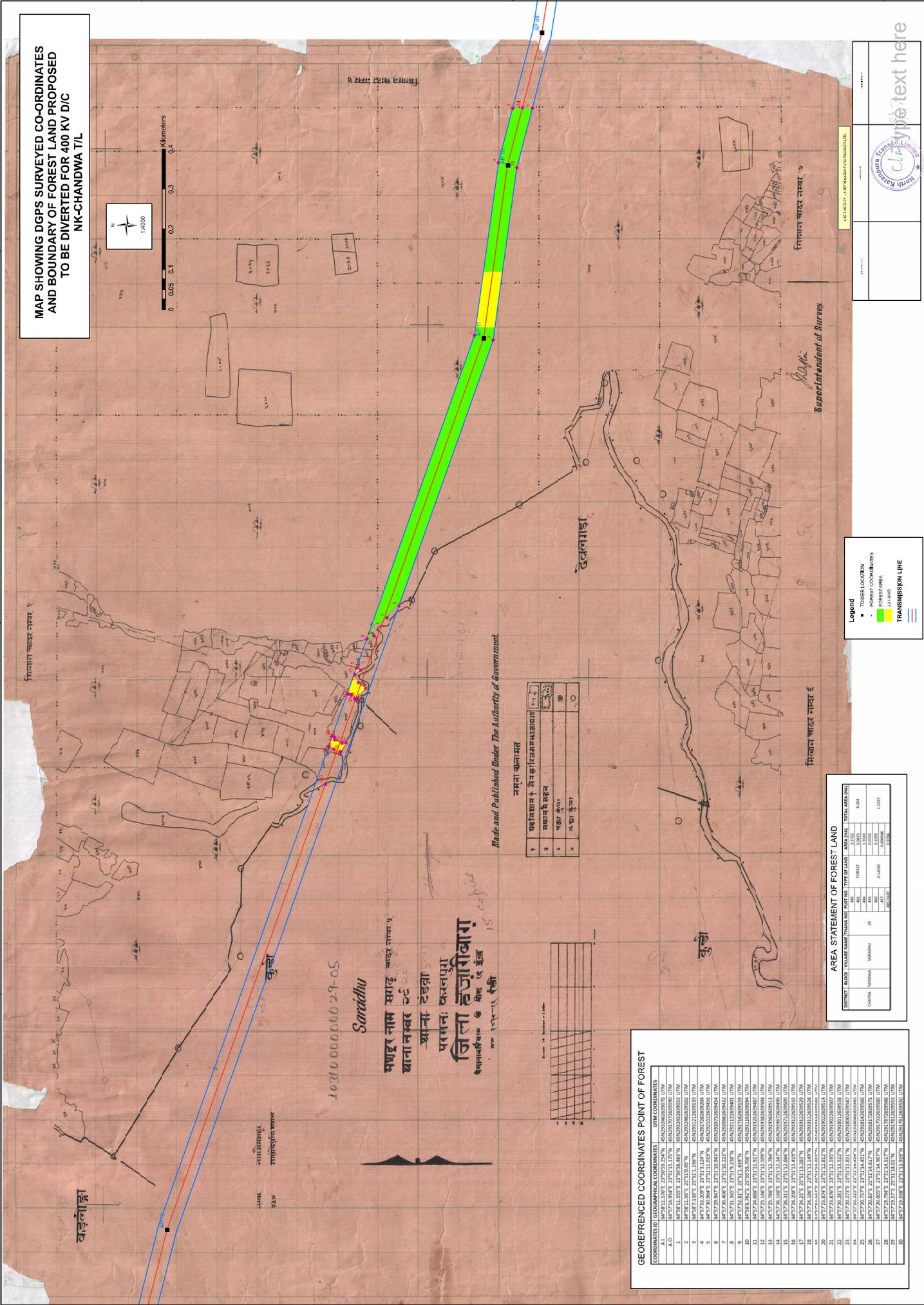
COORDINATED COORDINATES POINT OF FOREST

COORDINATES ID	GEOREFERENCE COORDINATES	UTM COORDINATES
A0	84°58'11.411"E 23°50'52.240"N	45N292324.1263886 UTM
1	84°58'11.411"E 23°50'52.240"N	45N292324.1263886 UTM
2	84°58'51.279"E 23°50'51.697"N	45N292437.6265884 UTM
3	84°58'51.279"E 23°50'51.697"N	45N292437.6265884 UTM
4	84°58'11.411"E 23°50'52.240"N	45N292324.1263886 UTM
5	84°58'11.411"E 23°50'52.240"N	45N292324.1263886 UTM
6	84°58'11.411"E 23°50'52.240"N	45N292324.1263886 UTM
7	84°58'11.411"E 23°50'52.240"N	45N292324.1263886 UTM

North Korea
 Infraco Limited
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MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



LISTED IN THE 1ST PART OF THE PROPOSAL.

Surveyed by: _____

Checked by: _____

Approved by: _____

Surveyed on: _____

Legend

- BEEL LOCATION
- FOREST COORDINATES
- FOREST AREA
- JI LAND
- TRANSMISSION LINE

Made and Published Under The Authority of Government.

नमन आनासत

1	अर्ध नमाना	1	अर्ध नमाना
2	मकाना के स्थान	2	मकाना के स्थान
3	पहाडी कुंआ	3	पहाडी कुंआ
4	अ. खा. कुंआ	4	अ. खा. कुंआ

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO.	POST NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
CHHATTISGARH	TANTAWA	SARADHU	29	465	FOREST	0.0071	4.854
					JI LAND	0.0004	1.837
GRAND TOTAL						0.0075	6.691

GEOREFERENCED COORDINATES POINT OF FOREST

COORDINATE ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
A1	84730.11579°E 23°52'59.254"N	45N293246209078.UTM
A2	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
1	84730.11579°E 23°52'59.254"N	45N293246209078.UTM
2	84730.11579°E 23°52'59.254"N	45N293246209078.UTM
3	84730.11579°E 23°52'59.254"N	45N293246209078.UTM
4	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
5	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
6	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
7	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
8	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
9	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
10	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
11	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
12	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
13	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
14	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
15	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
16	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
17	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
18	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
19	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
20	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
21	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
22	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
23	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
24	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
25	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
26	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
27	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
28	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
29	84729.8594°E 23°53'13.175"N	45N293246209550.UTM
30	84729.8594°E 23°53'13.175"N	45N293246209550.UTM

1031000000029-05

Saradhu

मण्डल नाम मण्डल चण्डर नमर ५

ग्रामा नमर २८

ग्रामा टंडव्रा

परगना: कतनपुरा

जिला हजारीबाग

भारत गणराज्य के क्षेत्र के अन्तर्गत

दिनांक 15/05/2015



Superintendent of Survey

मिशन चण्डर नमर ६

मिशन चण्डर नमर ७

कडलीडा

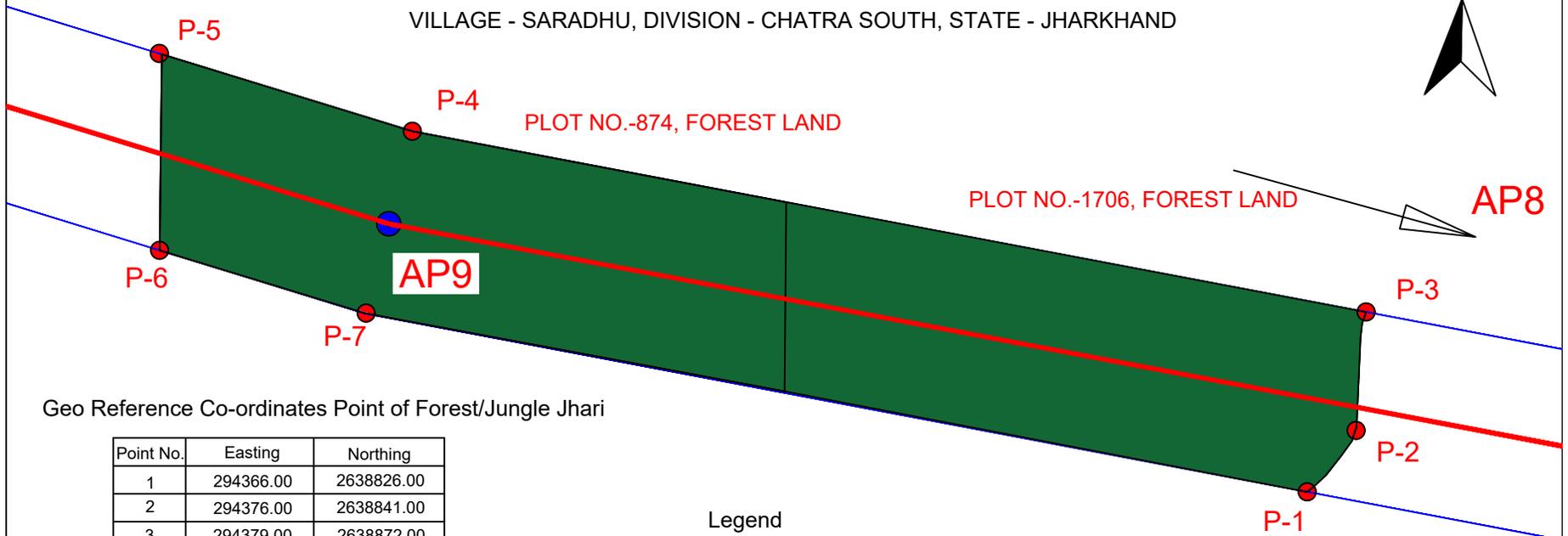
नाम: _____

पद: _____

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - SARADHU, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	294366.00	2638826.00
2	294376.00	2638841.00
3	294379.00	2638872.00
4	293423.00	2639050.00
5	293241.00	2639103.00
6	293241.00	2639054.00
7	293413.00	2639004.00
AP9	293417.00	2639027.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



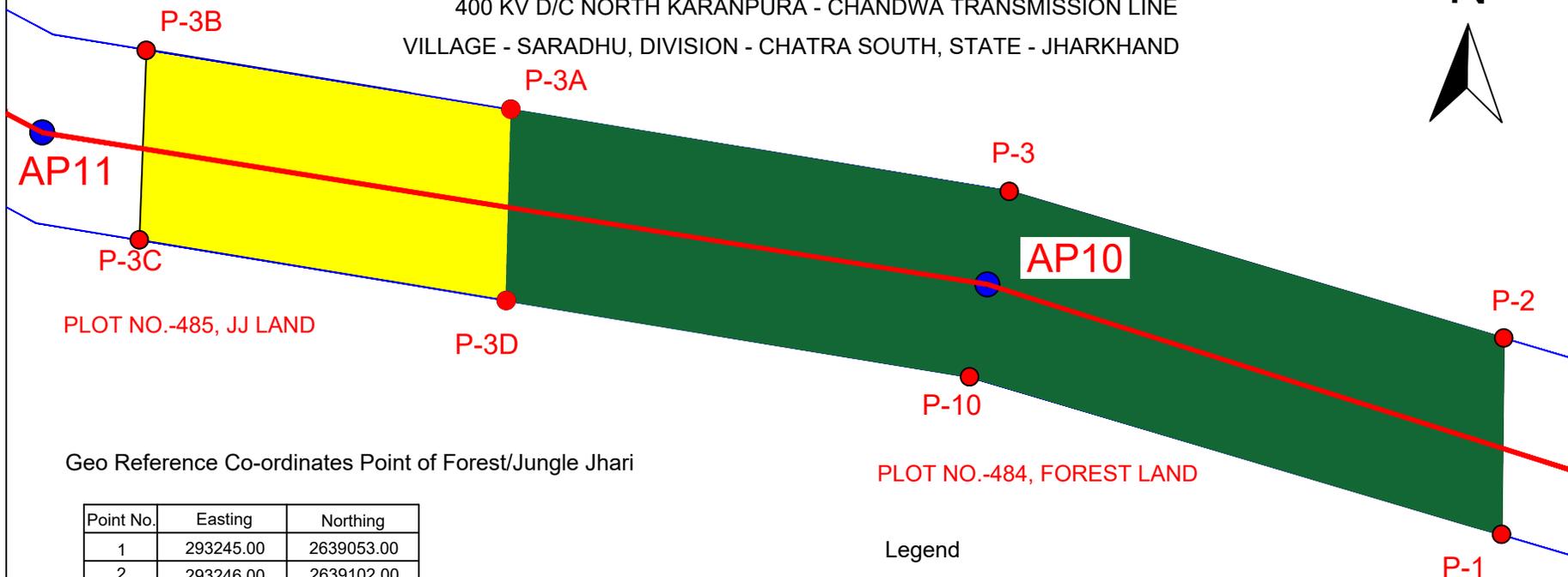
Forest area



Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - SARADHU, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

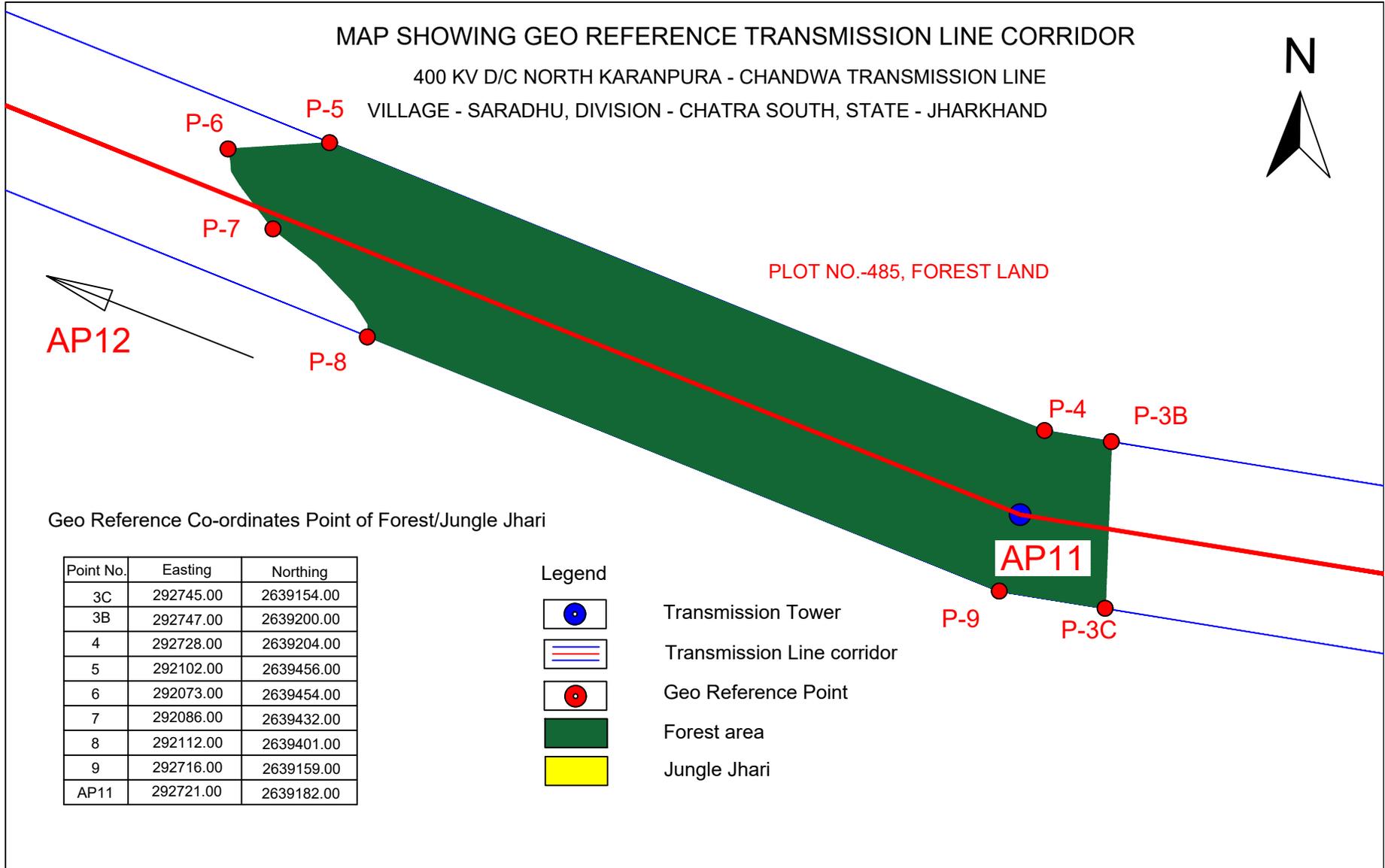
Point No.	Easting	Northing
1	293245.00	2639053.00
2	293246.00	2639102.00
3	293121.00	2639139.00
3A	292873.00	2639179.00
3B	292747.00	2639200.00
3C	292745.00	2639154.00
3D	292872.00	2639132.00
10	293110.00	2639094.00
AP10	293115.00	2639117.00
AP11	292721.00	2639182.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - SARADHU, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



PLOT NO.-485, FOREST LAND

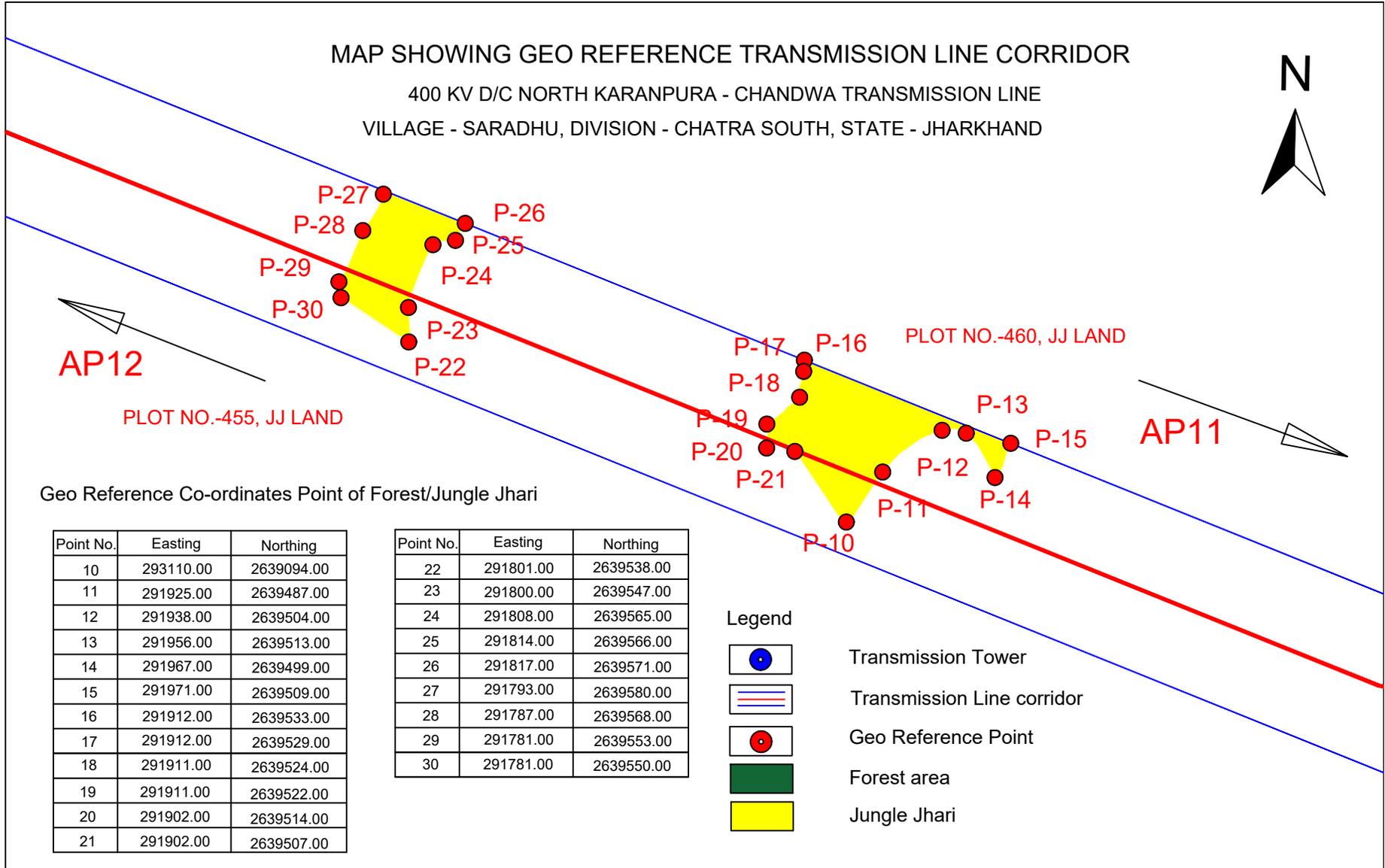
Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
3C	292745.00	2639154.00
3B	292747.00	2639200.00
4	292728.00	2639204.00
5	292102.00	2639456.00
6	292073.00	2639454.00
7	292086.00	2639432.00
8	292112.00	2639401.00
9	292716.00	2639159.00
AP11	292721.00	2639182.00

- Legend**
-  Transmission Tower
 -  Transmission Line corridor
 -  Geo Reference Point
 -  Forest area
 -  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - SARADHU, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
10	293110.00	2639094.00
11	291925.00	2639487.00
12	291938.00	2639504.00
13	291956.00	2639513.00
14	291967.00	2639499.00
15	291971.00	2639509.00
16	291912.00	2639533.00
17	291912.00	2639529.00
18	291911.00	2639524.00
19	291911.00	2639522.00
20	291902.00	2639514.00
21	291902.00	2639507.00

Point No.	Easting	Northing
22	291801.00	2639538.00
23	291800.00	2639547.00
24	291808.00	2639565.00
25	291814.00	2639566.00
26	291817.00	2639571.00
27	291793.00	2639580.00
28	291787.00	2639568.00
29	291781.00	2639553.00
30	291781.00	2639550.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Chatra South					District : Chatra				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Saradhu	Tandwa	874				19495.000	Protected Forest	1.9495	1.2067
		1706				34766.000		3.4766	
		485				23722.000		2.3722	
		481				672.000		0.0672	
		484				19183.000		1.9183	
		455				732.000	Jungle Jhari	0.0732	
		460				1059.000		0.1059	
		457				1.000		0.0001	
		485				9766.000		0.9766	
Total							109396.000	10.9396	1.2067

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Scale: 1:4000

Legend

- TOWER LOCATION
- FOREST COORDINATES
- FOREST AREA
- TRANSMISSION LINE

GEOREFENCED COORDINATES POINT OF FOREST

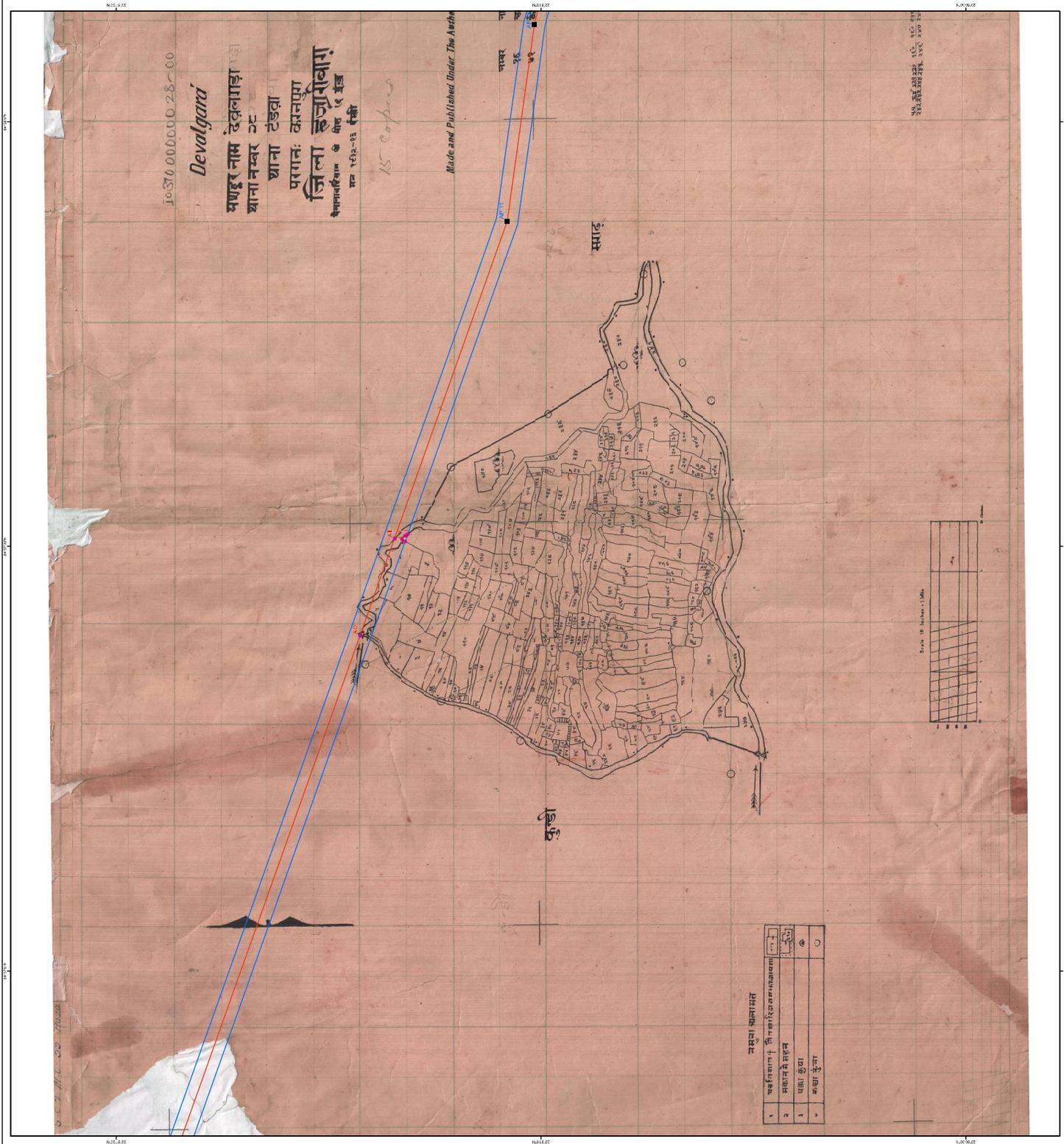
COORDINATES ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
1	84°57'20.897"E 23°51'3.865"N	45N292092693807 UTM
2	84°57'20.294"E 23°51'3.866"N	45N292092693813 UTM
3	84°57'20.544"E 23°51'3.887"N	45N292092693843 UTM
4	84°57'20.897"E 23°51'10.159"N	45N292092693946 UTM
A.O.	84°57'23.897"E 23°51'12.297"N	45N29218927893514 UTM

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	TOWNSHIP NO.	POST NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA(HA)
CHANDWA	CHANDWA	CHANDWA	28	239	JI LAND	0.0000	0.0000

Prepared by: S. S. Kulkarni, Surveyor, Chandwa, Dist. Chandwa, M.S.

Signature and Stamp of S. S. Kulkarni, Surveyor, Chandwa, Dist. Chandwa, M.S.



अनुमति प्रस्तावना

1	वर्तमान स्थिति	○
2	समाप्त स्थिति	●
3	पहाट स्थिति	○
4	अन्य स्थिति	○

Scale 1:50000

0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
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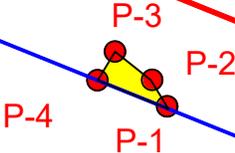
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - DEVALGARA, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



AP12

AP11



PLOT NO.-120, GM JJ LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	292099.00	2639407.00
2	292095.00	2639413.00
3	292088.00	2639419.00
4	292084.00	263941300

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Chatra South					District : Chatra				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Devalgara	Tandwa	120				69.000	Jangle Jhari	0.0069	0.4487
Total						69.000		0.0069	0.4487

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

- TOWER LOCATION
- FOREST COORDINATES
- FOREST AREA
- LI LAND
- TRANSMISSION LINE

GEOREFERENCED COORDINATES POINT OF FOREST

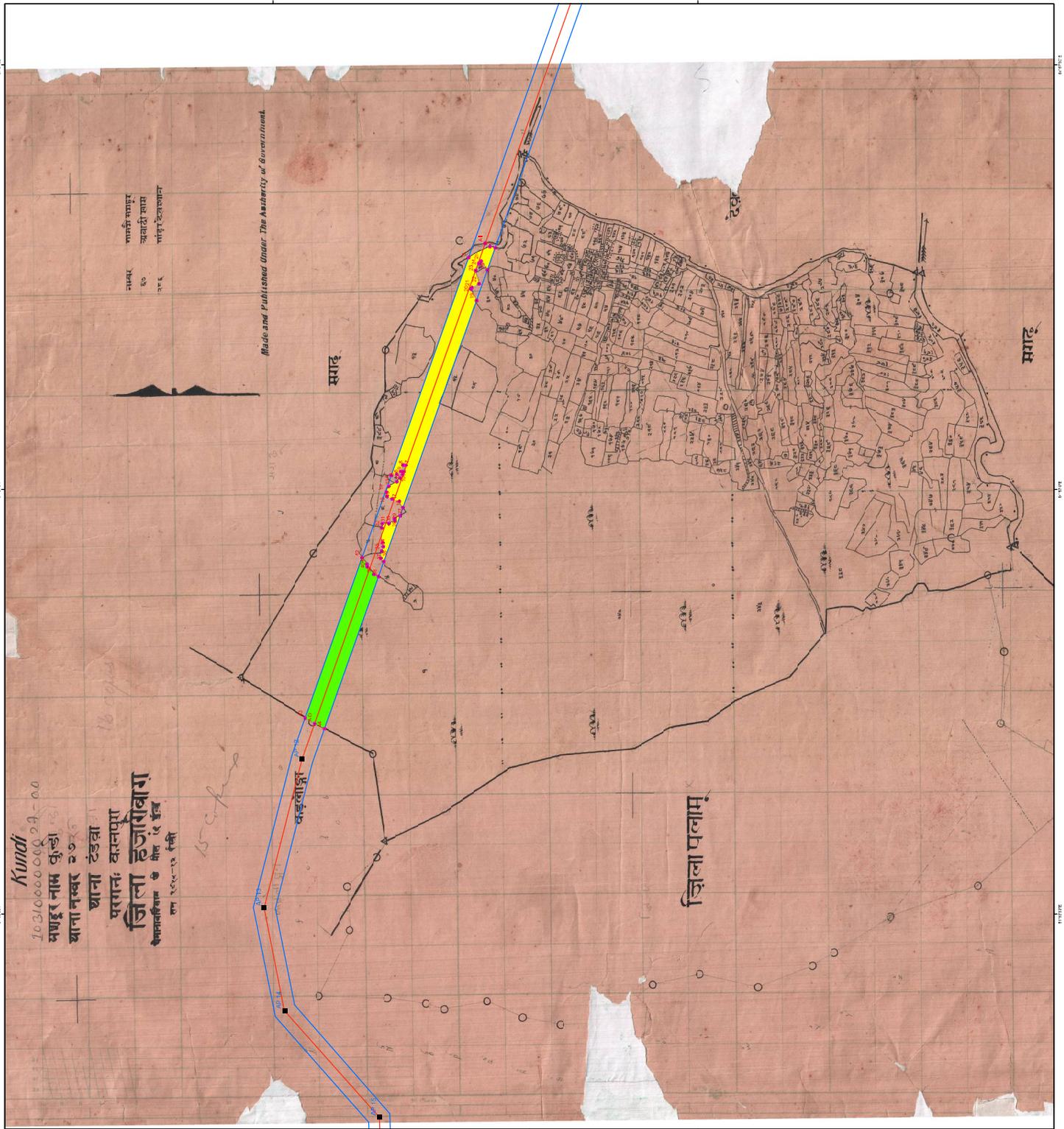
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99	845733.0000, 237212.0000
100	845733.0000, 237212.0000

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO.	PGT NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
CHANDWA	CHANDWA	KUNDI	27	1	FOREST	3.251	3.251
					LI LAND	1.4752	1.4752
					LI LAND	1.329	1.329

Scale: 1:4000

North Kadam
Survey & Mapping Limited
Citytype Text



Kundi
10310000000024-00
समूह नाम कुन्डी
थाना नम्बर २७
थाना टडवा
परगना: चन्दापुरा
जिला हजारीबाग
भारत

Made and Published Under The Authority of Government

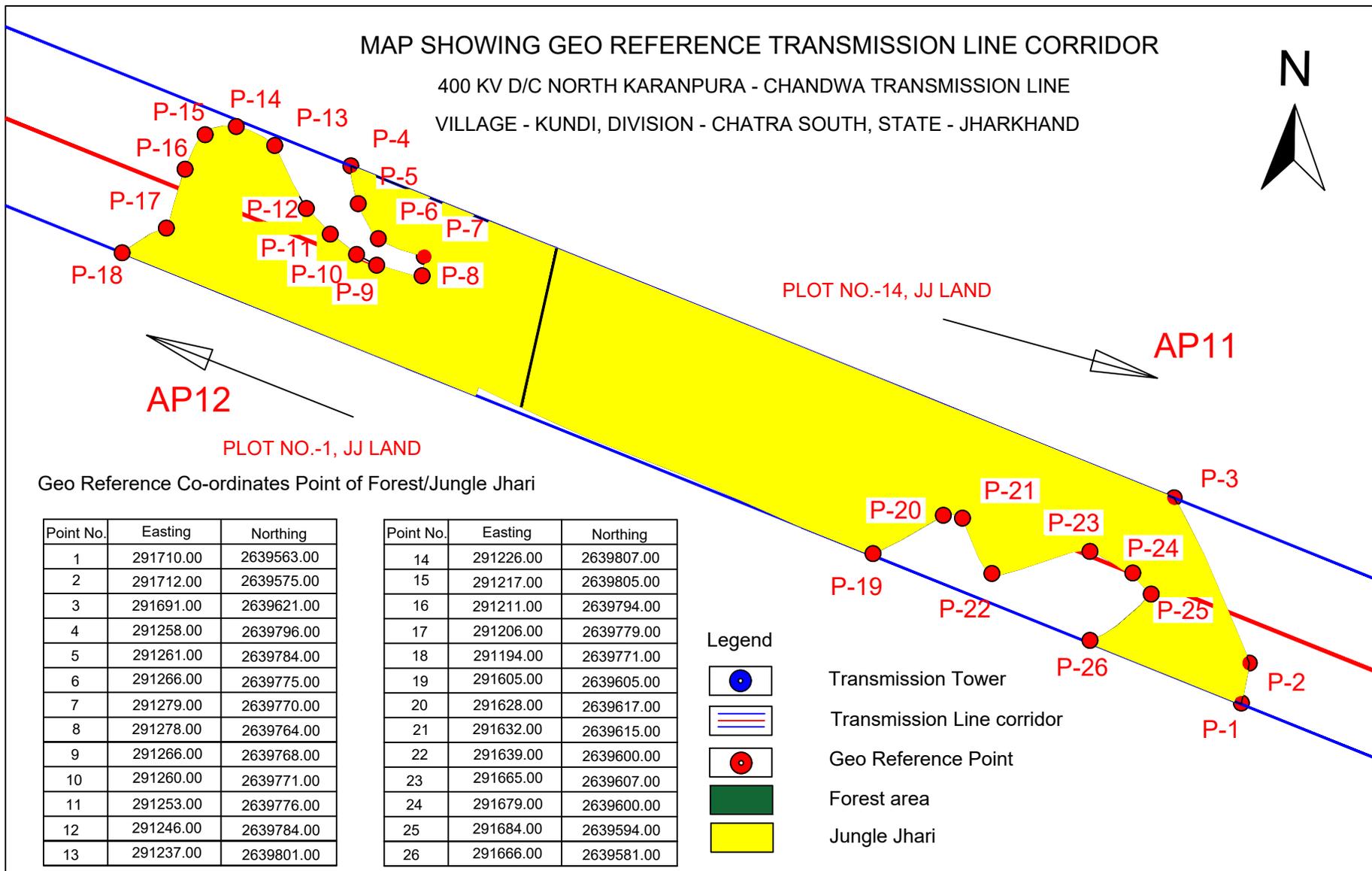
सरा

जिला पनाम

सरा

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - KUNDI, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



PLOT NO.-1, JJ LAND

PLOT NO.-14, JJ LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	291710.00	2639563.00
2	291712.00	2639575.00
3	291691.00	2639621.00
4	291258.00	2639796.00
5	291261.00	2639784.00
6	291266.00	2639775.00
7	291279.00	2639770.00
8	291278.00	2639764.00
9	291266.00	2639768.00
10	291260.00	2639771.00
11	291253.00	2639776.00
12	291246.00	2639784.00
13	291237.00	2639801.00

Point No.	Easting	Northing
14	291226.00	2639807.00
15	291217.00	2639805.00
16	291211.00	2639794.00
17	291206.00	2639779.00
18	291194.00	2639771.00
19	291605.00	2639605.00
20	291628.00	2639617.00
21	291632.00	2639615.00
22	291639.00	2639600.00
23	291665.00	2639607.00
24	291679.00	2639600.00
25	291684.00	2639594.00
26	291666.00	2639581.00

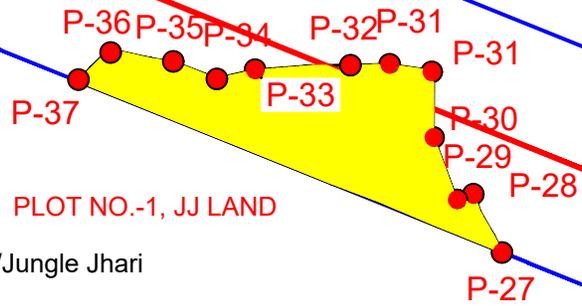
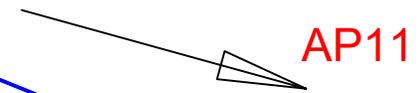
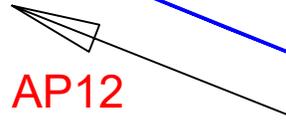
Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - KUNDI, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
27	291177.00	2639778.00
28	291171.00	2639790.00
29	291168.00	2639789.00
30	291163.00	2639802.00
31	291163.00	2639816.00
32	291154.00	2639818.00
33	291125.00	2639816.00
34	291116.00	2639815.00
35	291107.00	2639818.00
36	291093.00	2639821.00
37	291087.00	2639814.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



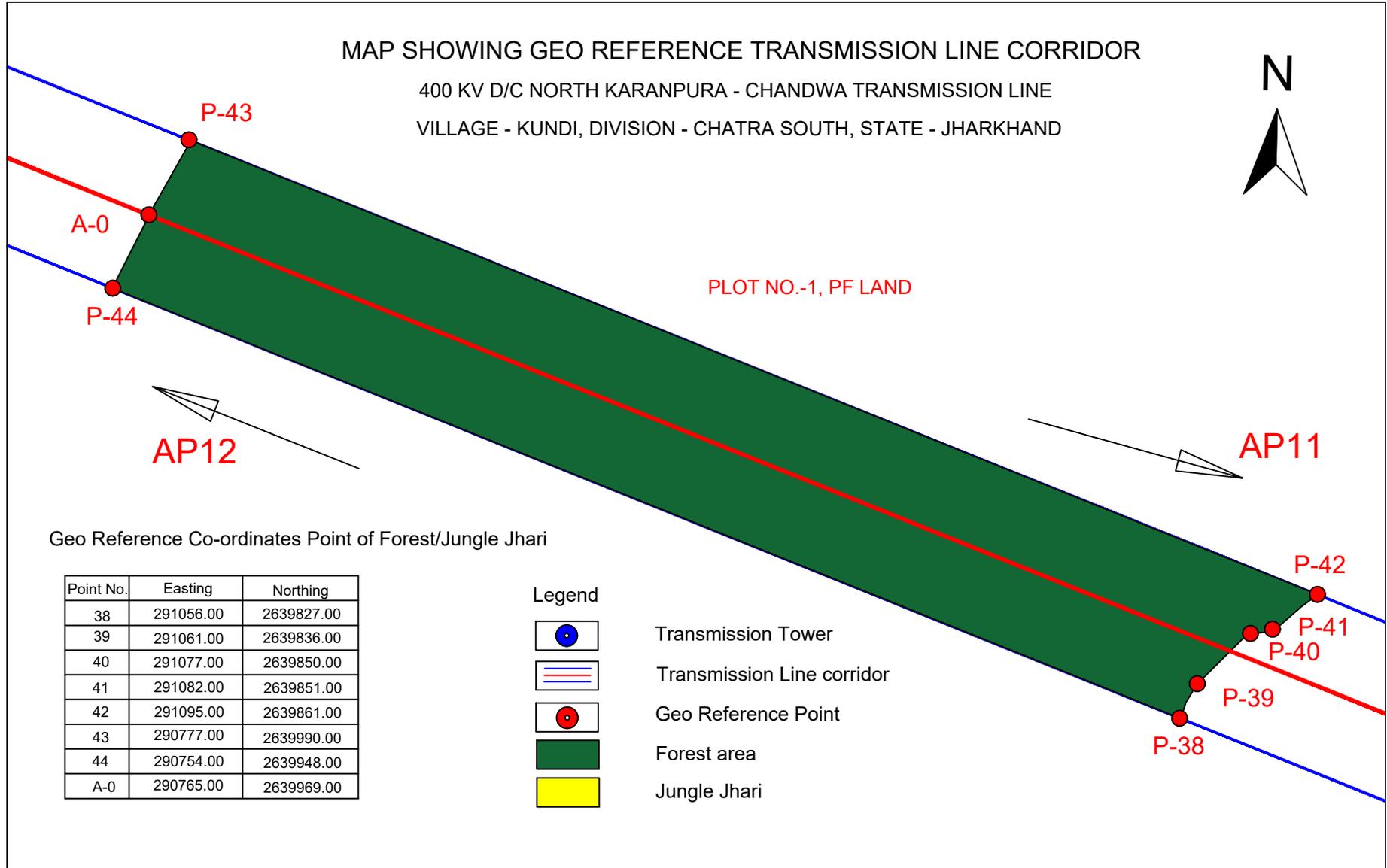
Forest area



Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

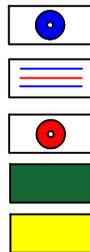
400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - KUNDI, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
38	291056.00	2639827.00
39	291061.00	2639836.00
40	291077.00	2639850.00
41	291082.00	2639851.00
42	291095.00	2639861.00
43	290777.00	2639990.00
44	290754.00	2639948.00
A-0	290765.00	2639969.00

Legend



- Transmission Tower
- Transmission Line corridor
- Geo Reference Point
- Forest area
- Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Chatra South

District : Chatra

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Kundi	Tandwa	1				12510.000	Protected Forest	1.2510	0.7864
		1				14792.000	Jungle Jhari	1.4792	
		14				13085.000		1.3085	
Total						40387.000		4.0387	0.7864

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

- TOWER LOCATION
- FOREST COORDINATES
- FOREST AREA
- TRANSMISSION LINE

GEOREFERENCED COORDINATES POINT OF FOREST

COORDINATES ID	GEOREFERENCED COORDINATES	UTM COORDINATES
1	84°50'42.28"E 23°51'23.04"N	45N292731003550 UTM
2	84°50'43.77"E 23°51'27.76"N	45N292732659950 UTM
3	84°50'43.88"E 23°51'28.87"N	45N292732660000 UTM
4	84°50'42.29"E 23°51'29.87"N	45N292731003600 UTM
5	84°50'42.29"E 23°51'29.87"N	45N292731003600 UTM
6	84°50'42.51"E 23°51'28.25"N	45N292731003500 UTM
7	84°50'42.51"E 23°51'27.60"N	45N292731003400 UTM
8	84°50'42.58"E 23°51'28.87"N	45N292732660000 UTM
9	84°50'40.54"E 23°51'29.89"N	45N292732660000 UTM
10	84°50'40.77"E 23°51'27.23"N	45N292732659975 UTM
A.O	84°50'42.16"E 23°51'28.30"N	45N292732660016 UTM
A.L	84°50'43.64"E 23°51'27.14"N	45N292732659981 UTM

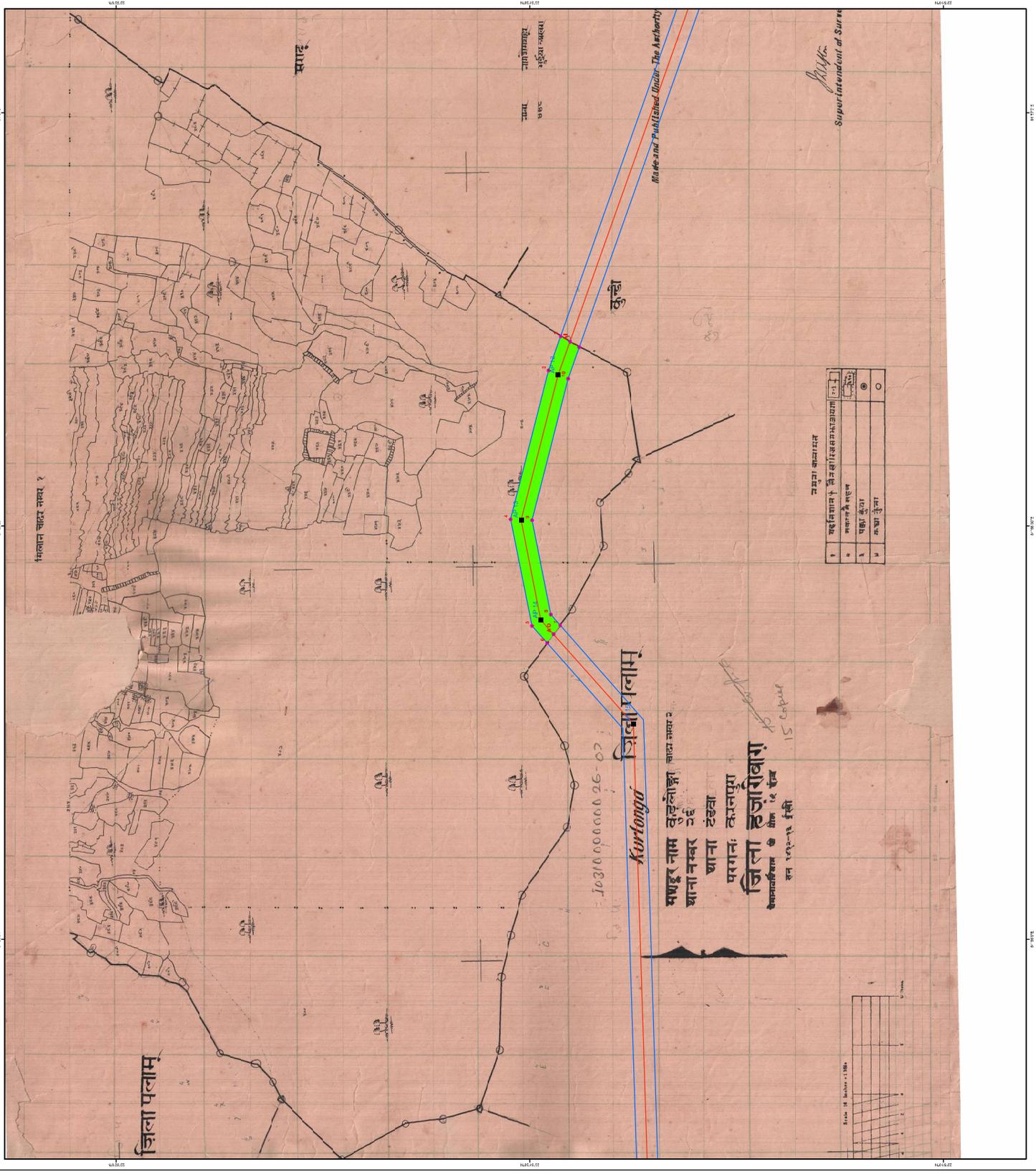
AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	TANKA NO.	PLOT NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
CHANDIA	INDRANOLI		27	200	FOREST	2.214	2.2002

INDRANOLI, CHANDIA, DISTRICT, NAKHODI, M.P.

MADE AND PUBLISHED UNDER THE AUTHORITY OF THE SUPERINTENDENT OF SURVEY

1971 Type text



सर्वेक्षण कागजात

क्र.	सर्वेक्षण कागजात	दिनांक
1	सर्वेक्षण कागजात	15/07/2015
2	सर्वेक्षण कागजात	15/07/2015
3	सर्वेक्षण कागजात	15/07/2015
4	सर्वेक्षण कागजात	15/07/2015

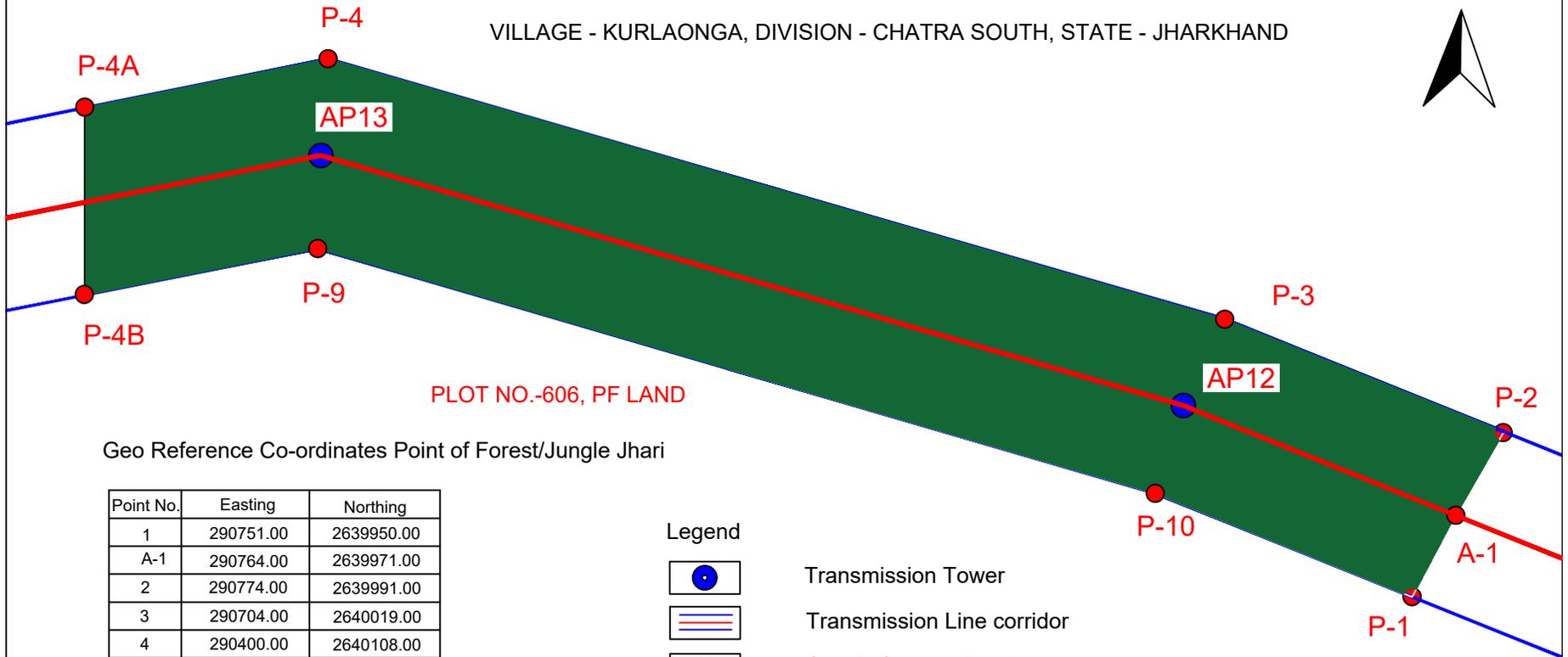
मण्डल नाम कुन्ही
खाना नम्बर 2
खाना टंडवा
परगना कानपुरा
जिला हजारीबाग
 विभागाध्यक्ष के निजी 14 इंच
 सन 1972-73 ईस्वी



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - KURLAONGA, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



PLOT NO.-606, PF LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	290751.00	2639950.00
A-1	290764.00	2639971.00
2	290774.00	2639991.00
3	290704.00	2640019.00
4	290400.00	2640108.00
4A	290310.00	2640089.00
4B	290309.00	2640042.00
9	290397.00	2640060.00
10	290687.00	2639975.00
AP12	290694.65	2639998.25
AP13	290398.43	2640084.63

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area

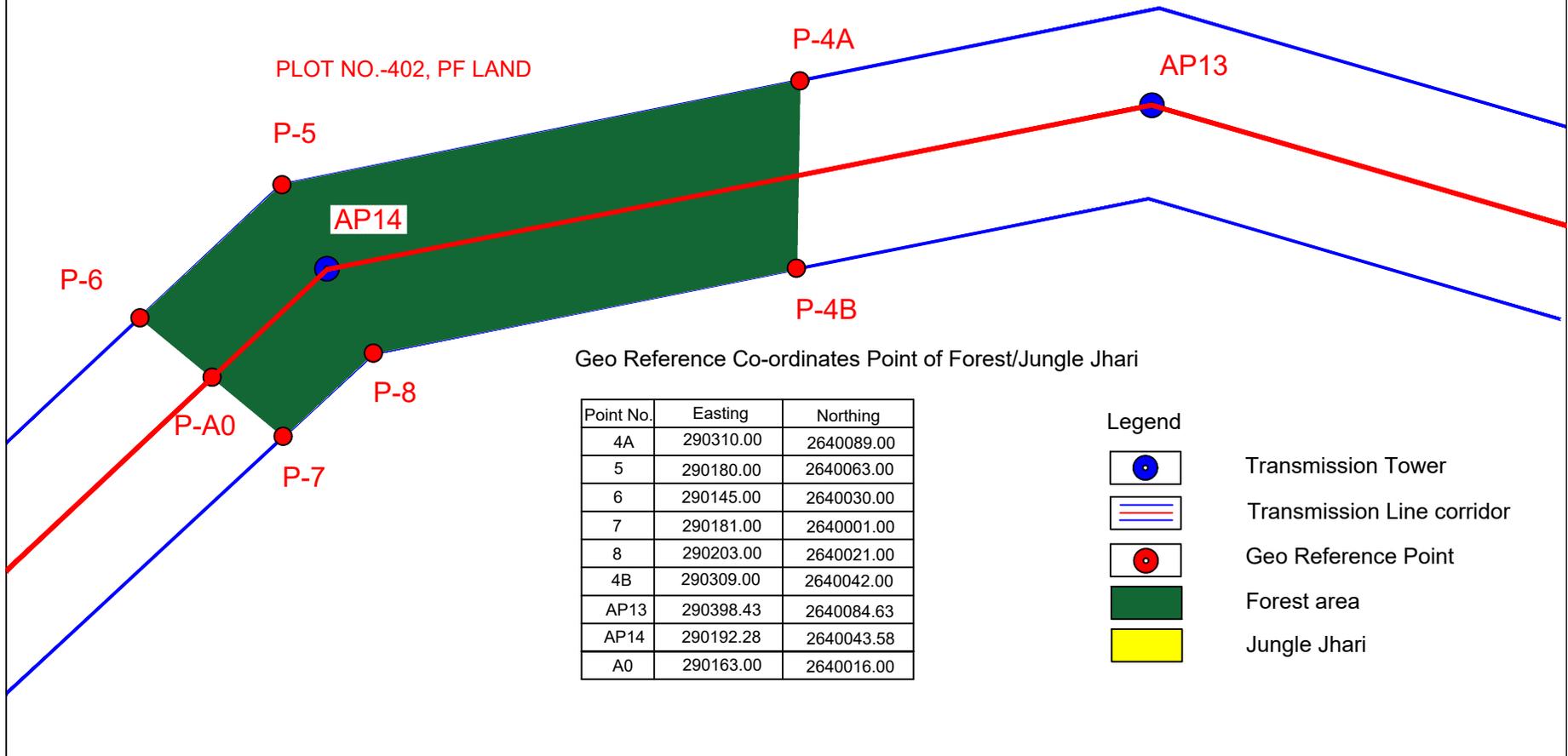


Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - KURLAONGA, DIVISION - CHATRA SOUTH, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
4A	290310.00	2640089.00
5	290180.00	2640063.00
6	290145.00	2640030.00
7	290181.00	2640001.00
8	290203.00	2640021.00
4B	290309.00	2640042.00
AP13	290398.43	2640084.63
AP14	290192.28	2640043.58
A0	290163.00	2640016.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Chatra South

District : Chatra

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Kurlaonga	Tandwa	402				6945.000	Protected Forest	0.6945	0
		606				22137.000		2.2137	
Total						29082.000		2.9082	0

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

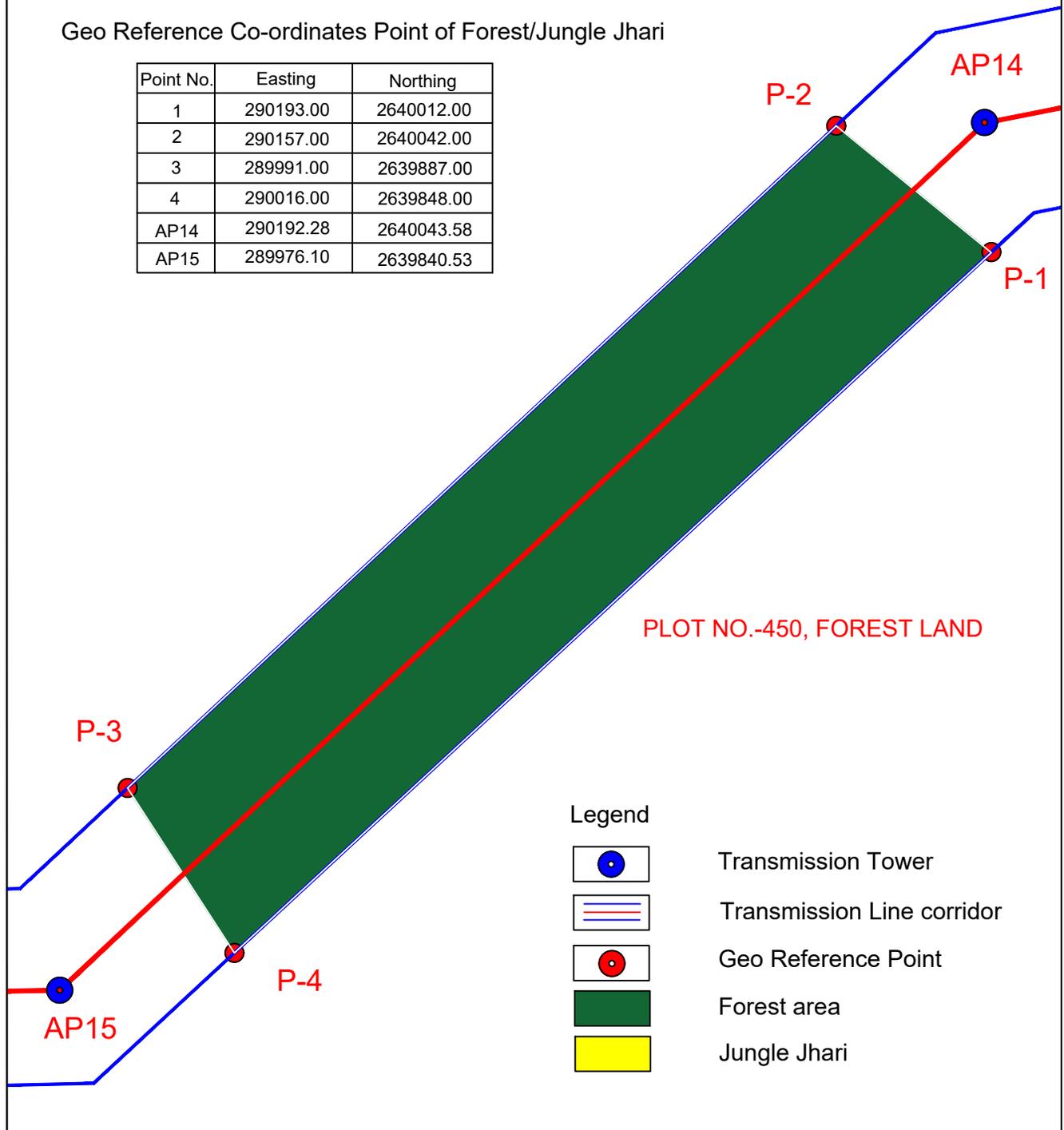
400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - ARA, DIVISION - LATEHAR, STATE - JHARKHAND

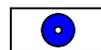


Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	290193.00	2640012.00
2	290157.00	2640042.00
3	289991.00	2639887.00
4	290016.00	2639848.00
AP14	290192.28	2640043.58
AP15	289976.10	2639840.53



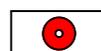
Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

District : Latehar

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Ara	Balumath	450				10308.000	Protected Forest	1.0308	3.9393
Total						10308.000		1.0308	3.9393

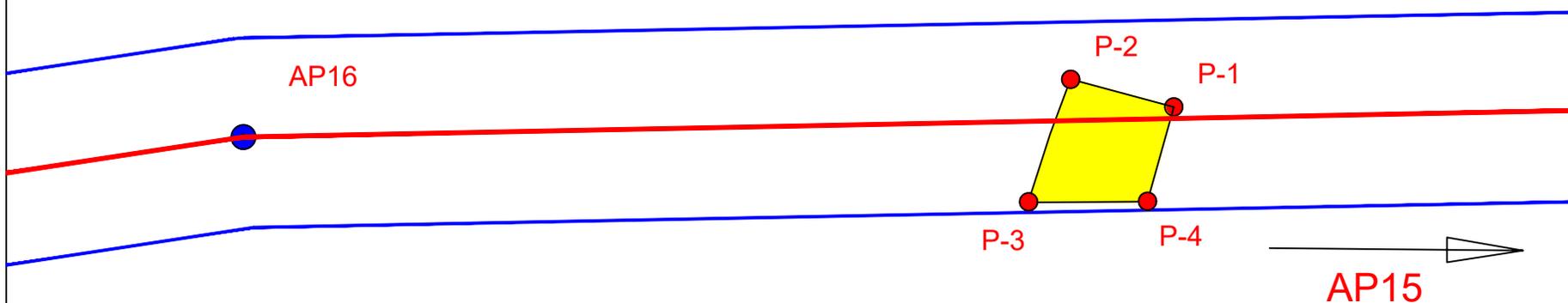
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - CHAMATU, DIVISION - LATEHAR, STATE - JHARKHAND



PLOT NO.-157, JJ LAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	288640.00	2639838.00
2	288602.00	2639807.00
3	288616.00	2639837.00
4	288633.00	2639805.00
AP16	288405.48	2639809.99

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

District : Latehar

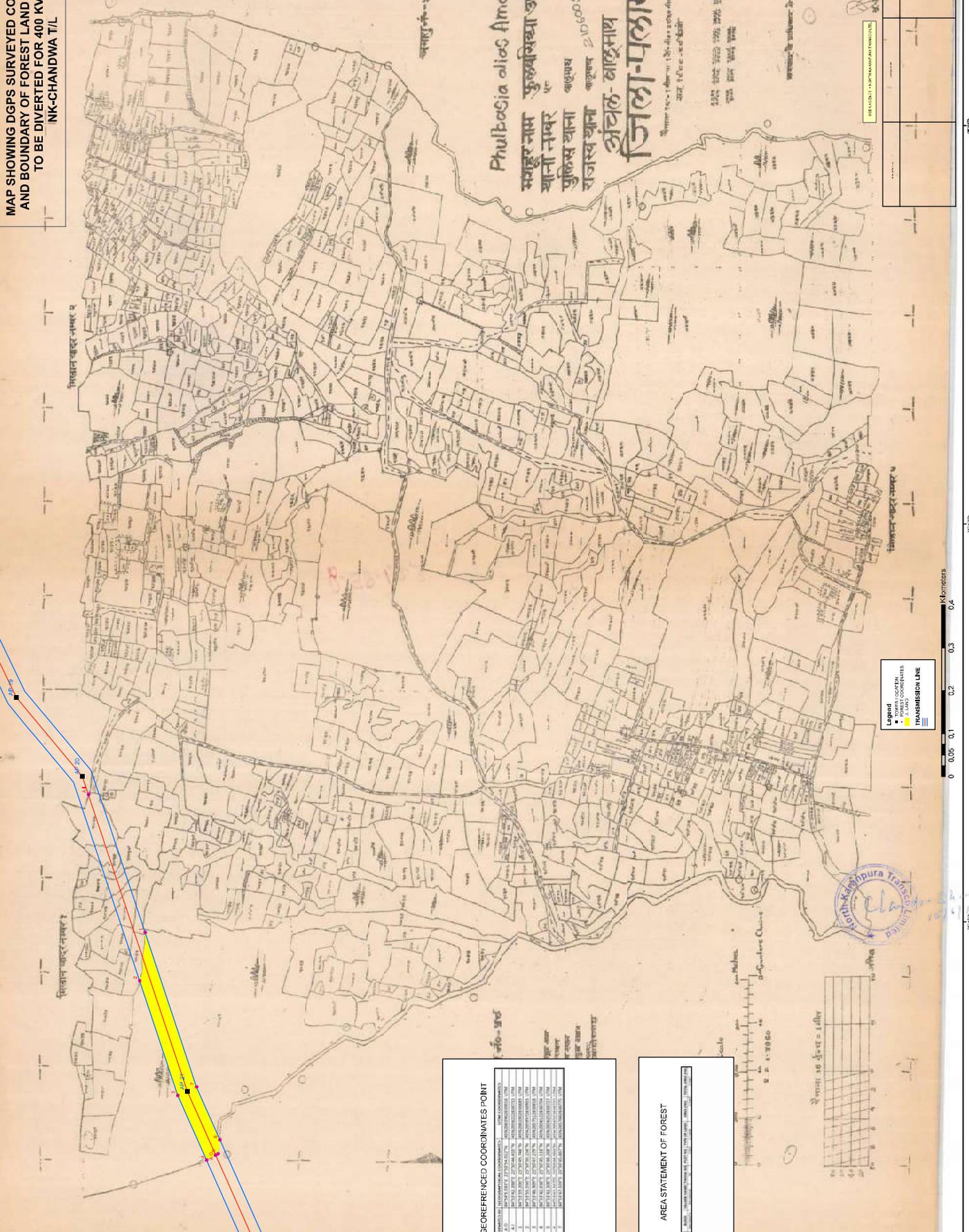
Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required			Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.	
			Comp. No.	Length(m)	Width(m)				Area in Sq. M
Chamatu	Balumath	157				79.000	Jungle Jhari	0.0079	4.6134
Total						79.000		0.0079	4.6134

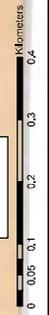
MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Phulbagia alias Amarwadhi
 गाविस नम्बर फुलबगिया अर्को अमावडीह
 पुर्णिस थाना वलुपथ
 राजस्व थाना वलुपथ 2100008-03
अंचल-बाजुरा
जिला-पलामु
 क्षेत्रफल १२००० वर्ग मीटर
 १२००० वर्ग मीटर १२००० वर्ग मीटर १२००० वर्ग मीटर
 १२००० वर्ग मीटर १२००० वर्ग मीटर १२००० वर्ग मीटर



Legend
 • FOREST COORDINATES
 • D.G.P.S. COORDINATES
 ■ LAND
 — TRANSMISSION LINE



GEOREFENCED COORDINATES POINT

COORDINATES	POINT NAME	POINT NO.	POINT TYPE
27.123456	POINT 1	1	FOREST
27.123457	POINT 2	2	FOREST
27.123458	POINT 3	3	FOREST
27.123459	POINT 4	4	FOREST
27.123460	POINT 5	5	FOREST
27.123461	POINT 6	6	FOREST
27.123462	POINT 7	7	FOREST
27.123463	POINT 8	8	FOREST
27.123464	POINT 9	9	FOREST
27.123465	POINT 10	10	FOREST

AREA STATEMENT OF FOREST

Sl. No.	Area (Hectares)	Remarks
1	120.00	Forest Area
2	120.00	Forest Area
3	120.00	Forest Area
4	120.00	Forest Area
5	120.00	Forest Area
6	120.00	Forest Area
7	120.00	Forest Area
8	120.00	Forest Area
9	120.00	Forest Area
10	120.00	Forest Area

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - PHULBASIA AMARWADIH, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	288109.00	2639741.00
2	288116.00	2639789.00
3	288056.00	2639780.00
4	288067.00	2639734.00
5	287807.00	2639694.00
6	287791.00	2639740.00

Point No.	Easting	Northing
7	287787.00	2639739.00
8	287790.00	2639732.00
9	287764.00	2639717.00
10	287779.00	2639700.00
11	287786.00	2639691.00
A1	286619.00	2639187.00

Legend

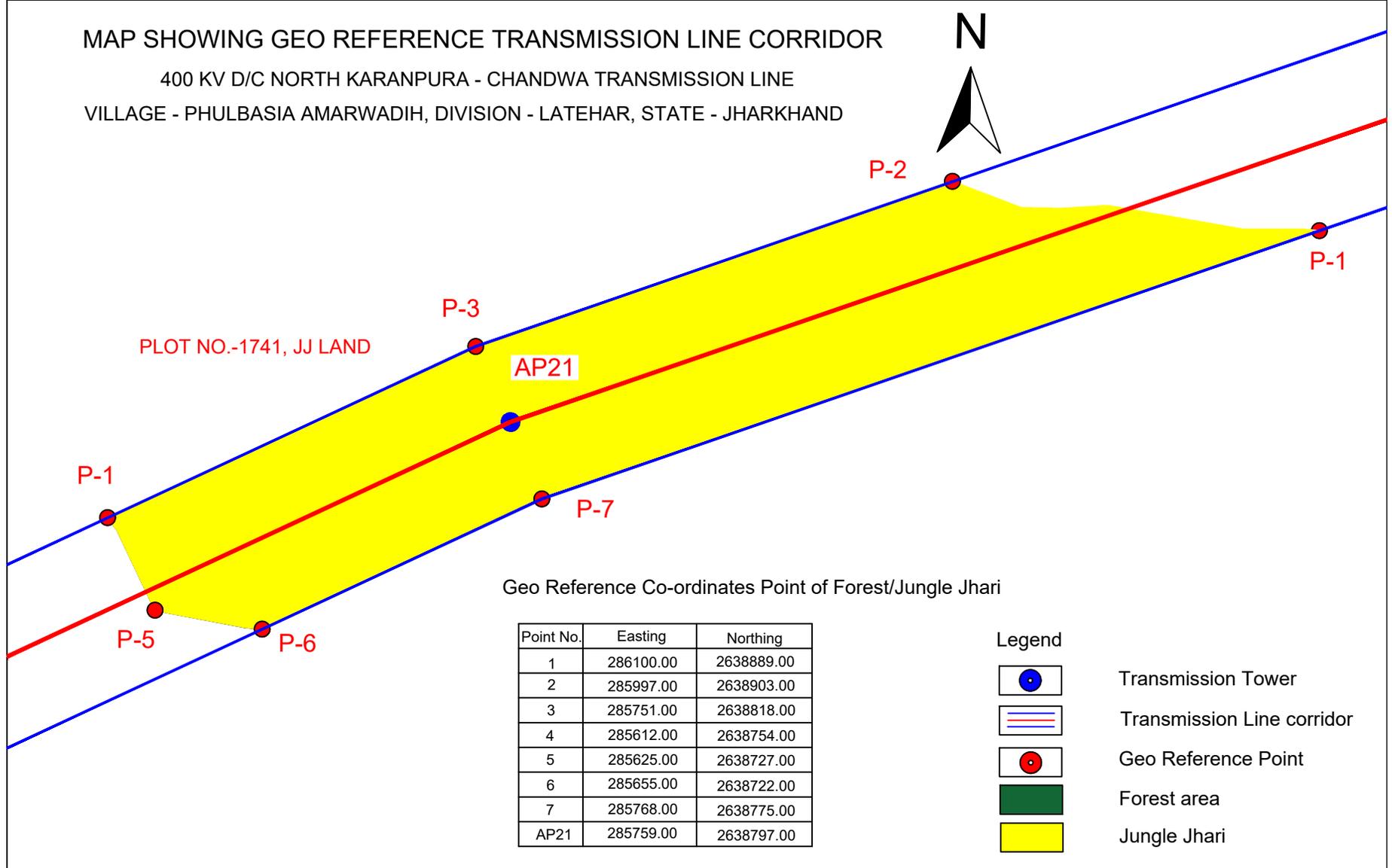
-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - PHULBASIA AMARWADIH, DIVISION - LATEHAR, STATE - JHARKHAND

N



PLOT NO.-1741, JJ LAND

P-3

AP21

P-2

P-1

P-1

P-7

P-5

P-6

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	286100.00	2638889.00
2	285997.00	2638903.00
3	285751.00	2638818.00
4	285612.00	2638754.00
5	285625.00	2638727.00
6	285655.00	2638722.00
7	285768.00	2638775.00
AP21	285759.00	2638797.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Phulbasia Amarwadi h	Bariyatu	2979				223.000	Protected Forest	0.0223	10.1582
		916				6260.000		0.626	
		433				6160.000		0.616	
		917				2847.000	Jungle Jhari	0.2847	
		915				155.000		0.0155	
		420				1000.000		0.1000	
		1741				21046.000		2.1046	
Total						37691.000		3.7691	10.1582

Chetar
 चेतर
 सशाहर नाम चेतर
 आचार्य नाम
 पुलिस आचार्य
 राजस्व थाना
 जिला पलामु

विमाना १६" = १ किलोमीटर
 सन् १९८६-८७ ईस्वी

नम्बर	निर्देश	सशाहर नाम
५७	-	अन्वयोन्वय
२६२	-	देवस्थान
५०६	-	देवस्थान
६६७	-	देवस्थान
७८७	-	मंडर स्थान

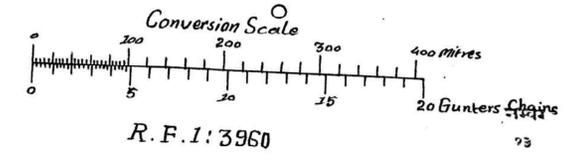
सैरगाडानं-६०

चडरा नं-५४
 चडरा

चडरा नं-५४

चडरा नं-५४

चादर निर्देशिका



नाम	मामूला
७३	गावामा
६०	पुरवा देवस्थान
५४६	देवस्थान
५०६	अन्वयोन्वय
५६८	देवस्थान
६६७	देवस्थान
७८७	मंडर स्थान

पैमाना १६" = १ मील

क्र.सं.	विवरण
१	पट्टा निर्देशिका
२	मामूला नम्बर
३	पट्टा नम्बर
४	फसला कुवा

COORDINATES ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
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A 1	84°53'42.416"E 23°50'44.432"N	45N2856222638733 UTM
1	84°53'41.809"E 23°50'45.011"N	45N2856052638751 UTM
4	84°53'39.324"E 23°50'43.897"N	45N2855342638718 UTM
5	84°53'40.331"E 23°50'42.654"N	45N2855622638679 UTM
6	84°53'41.539"E 23°50'43.192"N	45N2855972638695 UTM
7	84°53'41.193"E 23°50'43.61"N	45N2855872638708 UTM
8	84°53'42.533"E 23°50'44.048"N	45N2856252638721 UTM
9	84°53'43.319"E 23°50'43.987"N	45N2856482638719 UTM
10	84°53'39.334"E 23°50'42.217"N	45N2855342638666 UTM
11	84°53'38.76"E 23°50'43.654"N	45N2855182638710 UTM
12	84°53'19.471"E 23°50'35.066"N	45N2849692638454 UTM
13	84°53'20.847"E 23°50'34.95"N	45N2850082638450 UTM
14	84°53'20.719"E 23°50'33.938"N	45N2850032638419 UTM
15	84°53'20.468"E 23°50'33.82"N	45N2849962638416 UTM
16	84°53'19.335"E 23°50'34.135"N	45N2849642638426 UTM
17	84°53'19.191"E 23°50'33.235"N	45N2849602638398 UTM

DISTRICT	BLOCK	VILLAGE NAME	THANA NO	PLOT NO	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
LATEHAR	CHANDWA	CHETAR	59	237	FOREST LAND	1.3147	2.1258
				560		0.6755	
				566		0.1356	
				568	JJ LAND	0.8265	
				558	0.1306		

Legend

- TOWER LOCATION
- FOREST COORDINATES
- JJ LAND
- FOREST AREA
- TRANSMISSION LINE

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



USER AGENCY - NORTH KARANPURA TRANSCO LTD		
SURVEYED BY	CHECKED BY	SUBMITTED BY

फुलवाशिया उर्फ अमरवाडीह नं-५८
 फुलवाशिया उर्फ अमरवाडीह नं-५८

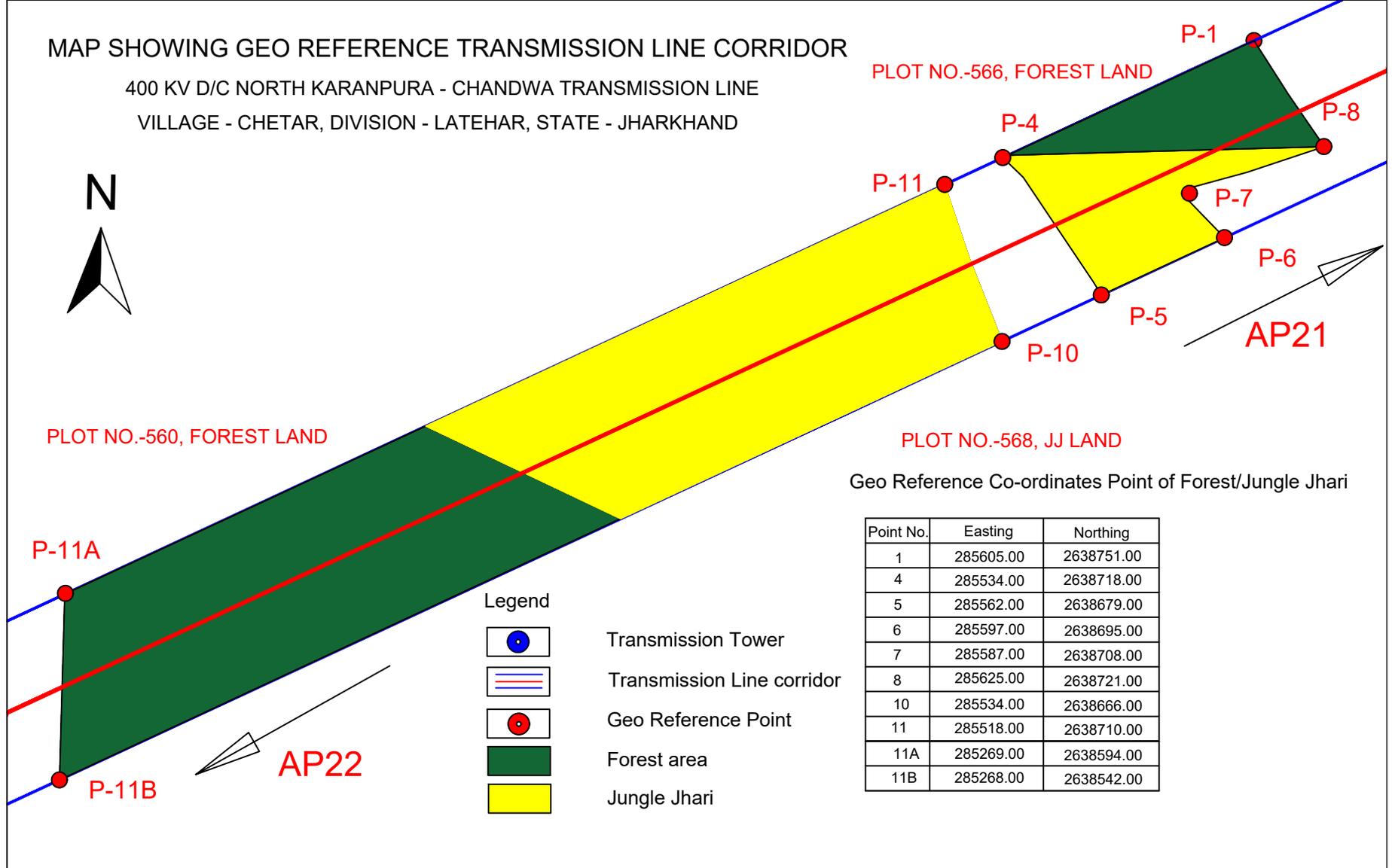
सरकार के अधिकार से निर्मित एवं प्रकृतित

ड्र-माप अधिकारी

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - CHETAR, DIVISION - LATEHAR, STATE - JHARKHAND



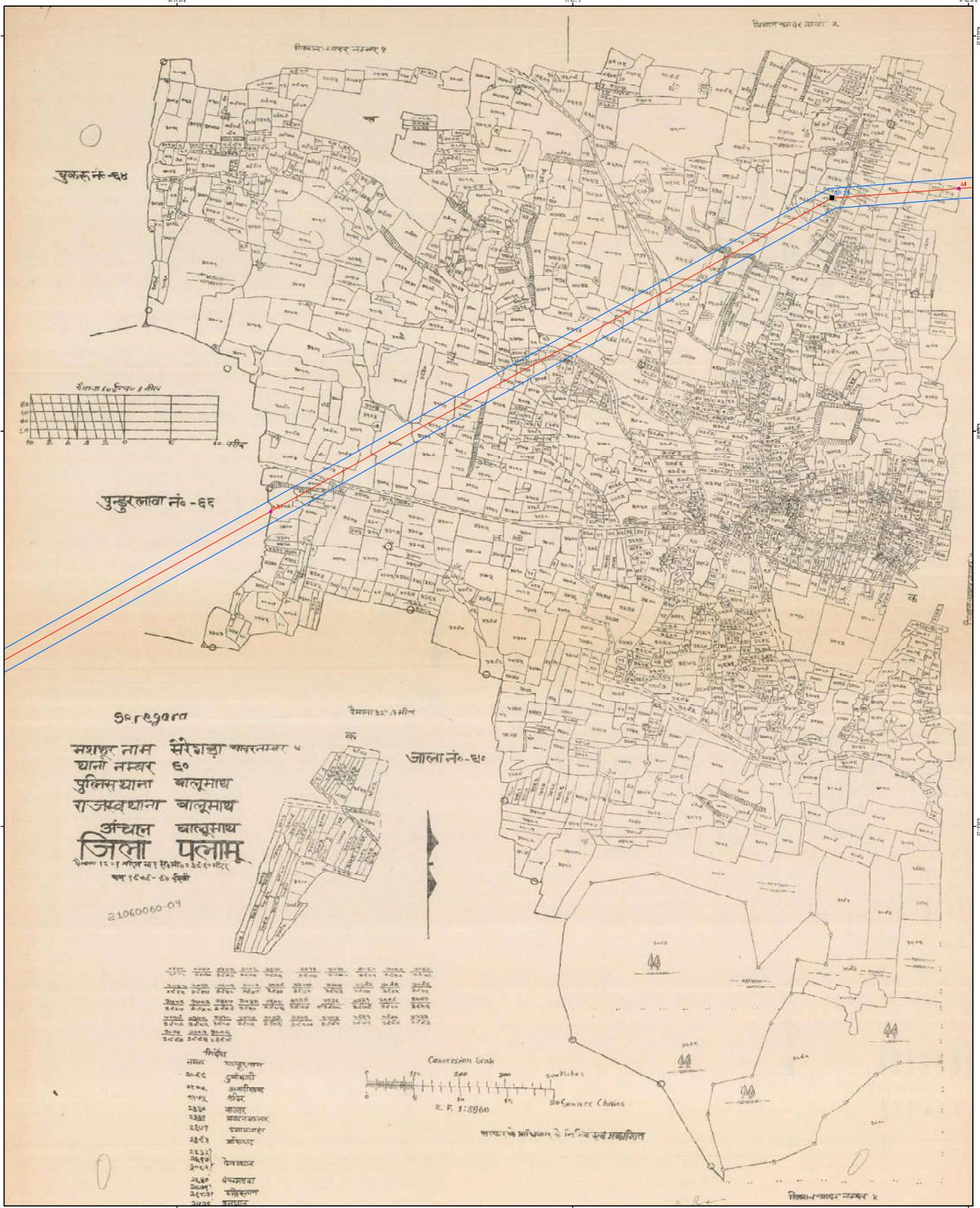
Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	285605.00	2638751.00
4	285534.00	2638718.00
5	285562.00	2638679.00
6	285597.00	2638695.00
7	285587.00	2638708.00
8	285625.00	2638721.00
10	285534.00	2638666.00
11	285518.00	2638710.00
11A	285269.00	2638594.00
11B	285268.00	2638542.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Chetar	Balumath	566				1356.000	Protected Forest	0.1356	5.6575
		560				6755.000		0.6755	
		237				13146.000		1.3146	
		568				8264.000	Jungle Jhari	0.8264	
		558				1305.000		0.1305	
Total					30826.000		3.0826	5.6575	



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

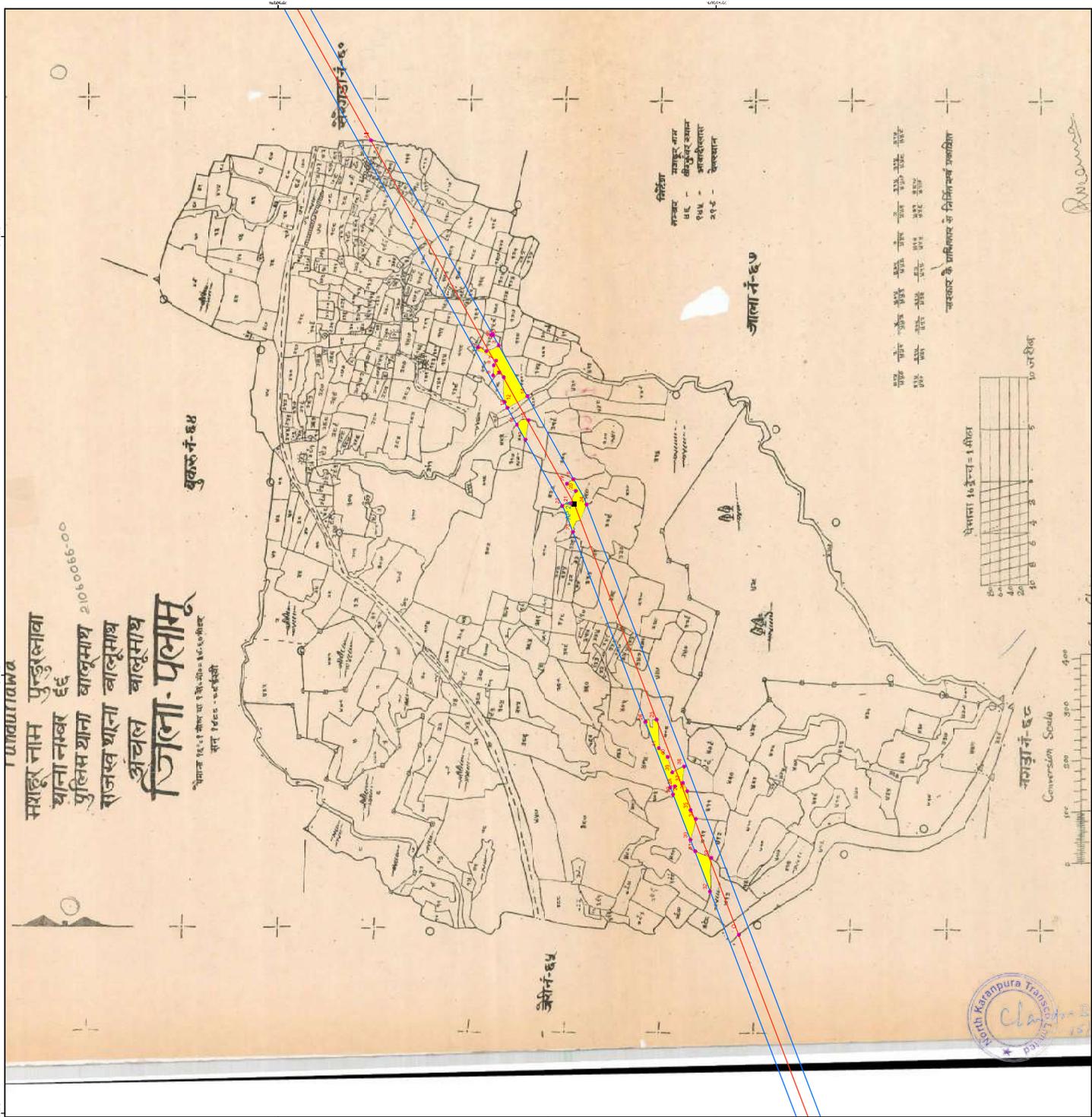
- FOREST CO-ORDINATES
- FOREST BOUNDARY
- TRANSMISSION LINE

GEOREFERENCED COORDINATES POINT

POINT NO.	X	Y
1	100000.00	100000.00
2	100000.00	100000.00
3	100000.00	100000.00
4	100000.00	100000.00
5	100000.00	100000.00
6	100000.00	100000.00
7	100000.00	100000.00
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96	100000.00	100000.00
97	100000.00	100000.00
98	100000.00	100000.00
99	100000.00	100000.00
100	100000.00	100000.00

AREA STATEMENT OF FOREST

Sl. No.	Area (Hectares)	Remarks
1	100000.00	Forest Area
2	100000.00	Forest Area
3	100000.00	Forest Area
4	100000.00	Forest Area
5	100000.00	Forest Area
6	100000.00	Forest Area
7	100000.00	Forest Area
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95	100000.00	Forest Area
96	100000.00	Forest Area
97	100000.00	Forest Area
98	100000.00	Forest Area
99	100000.00	Forest Area
100	100000.00	Forest Area



DATE	TIME	BY



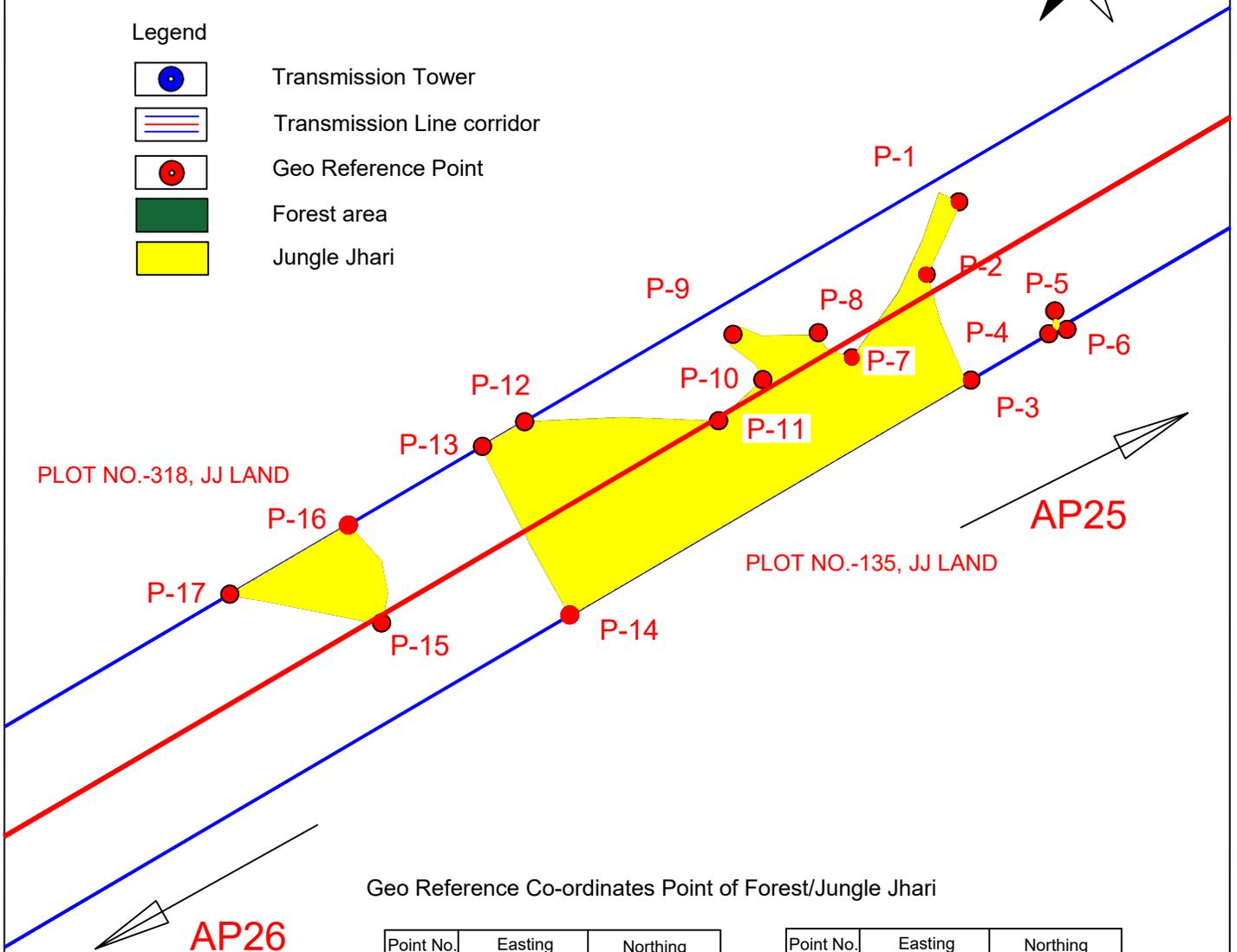
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - PUNDURLAWA, DIVISION - LATEHAR, STATE - JHARKHAND



Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari



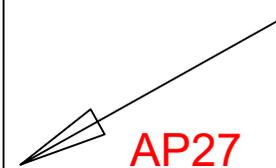
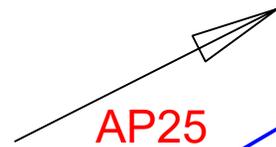
Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	280487.00	2636472.00
2	281626.00	2636986.00
3	281637.00	2636960.00
4	281659.00	2636973.00
5	281657.00	2636976.00
6	281657.00	2636972.00
7	281608.00	2636966.00
8	281598.00	2636971.00
9	281579.00	2636973.00
10	281585.00	2636960.00

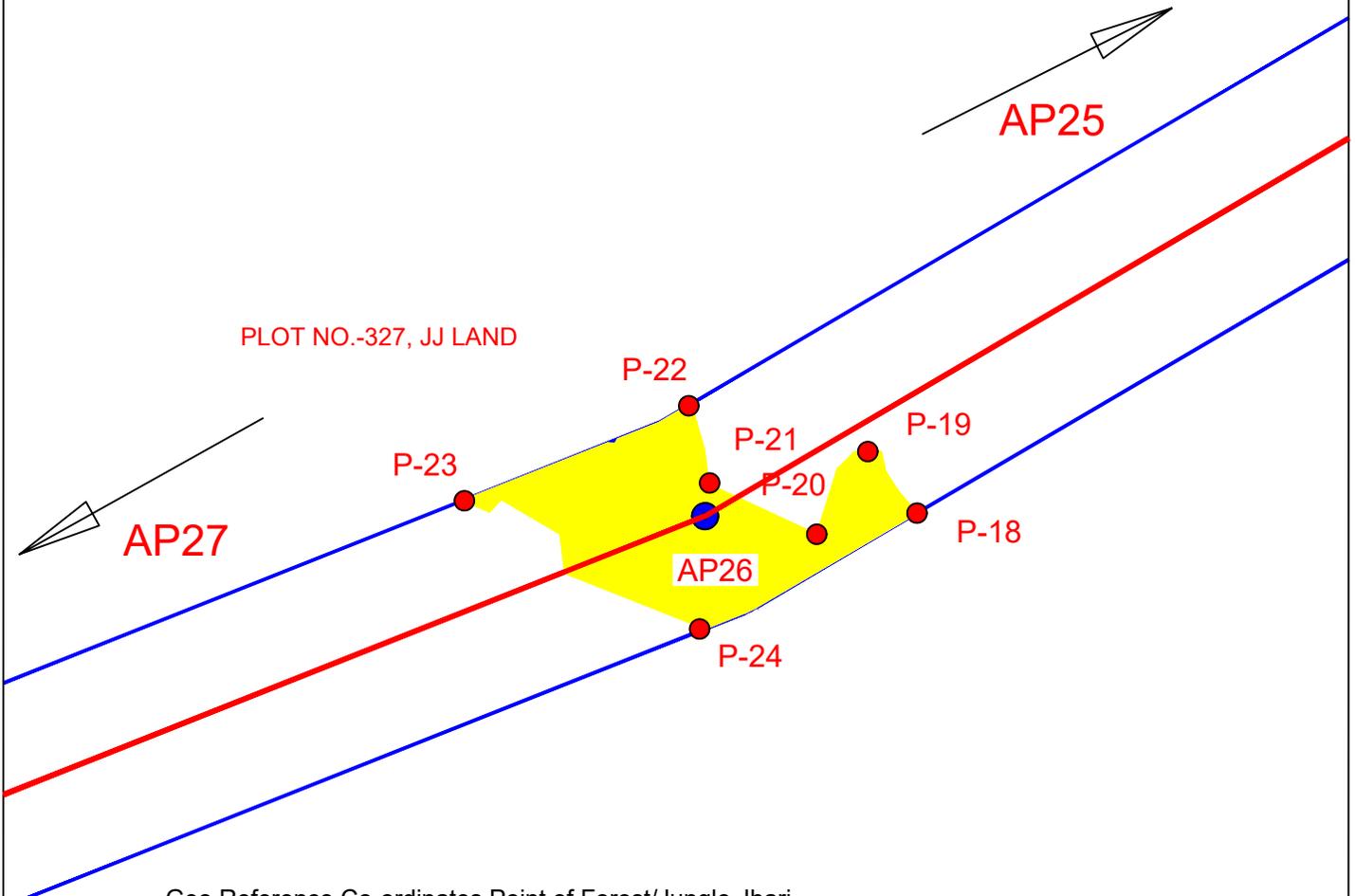
Point No.	Easting	Northing
11	281575.00	2636950.00
12	281527.00	2636950.00
13	281516.00	2636944.00
14	281538.00	2636901.00
15	281491.00	2636900.00
16	281482.00	2636924.00
17	281454.00	2636907.00

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - PUNDURLAWA, DIVISION - LATEHAR, STATE - JHARKHAND



PLOT NO.-327, JJ LAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
18	281375.00	2636807.00
19	281367.00	2636820.00
20	281353.00	2636803.00
21	281328.00	2636813.00
22	281324.00	2636831.00
23	281273.00	2636810.00
24	281326.00	2636780.00
AP26	281327.87	2636806.42

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



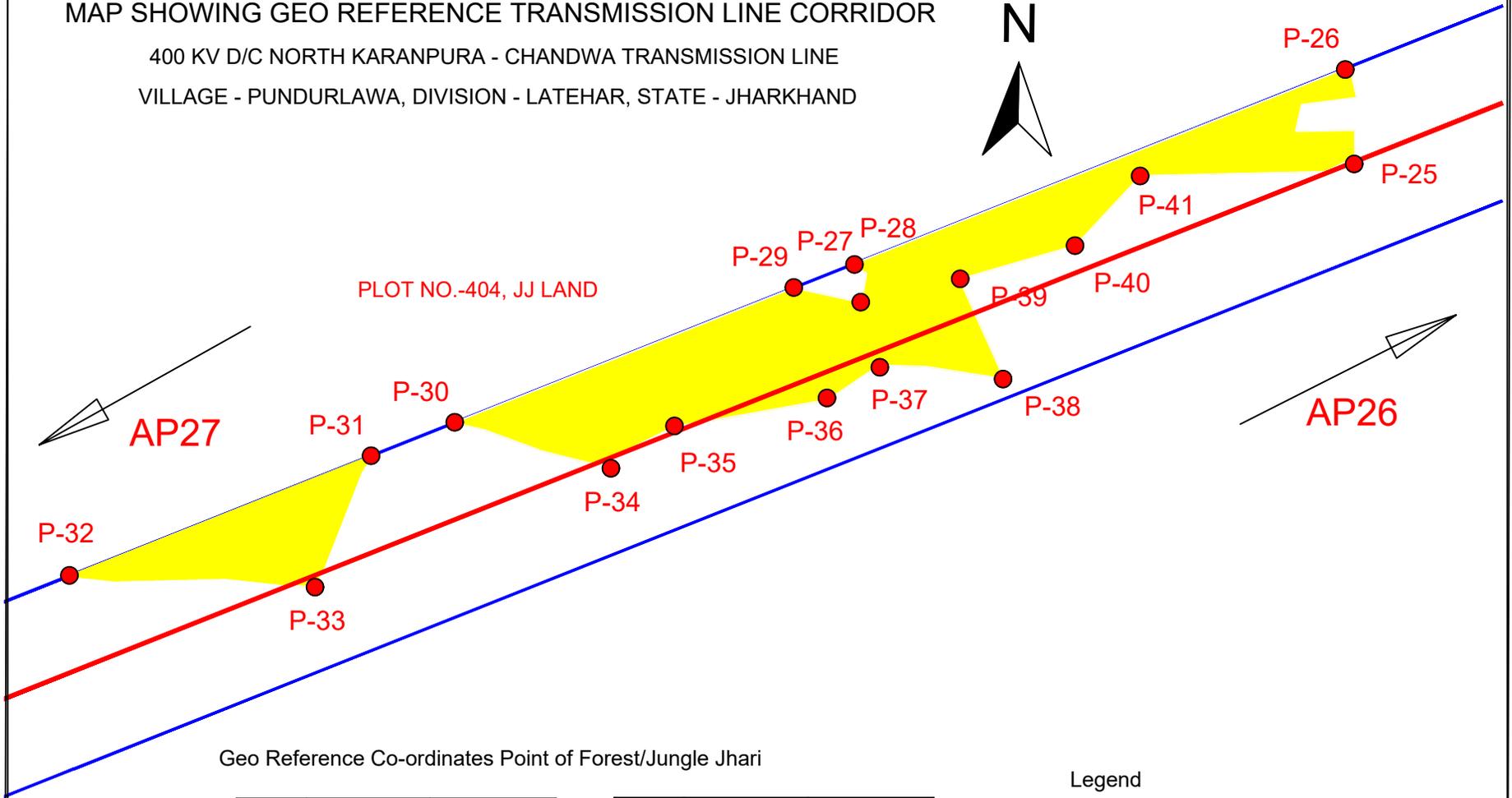
Forest area



Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - PUNDURLAWA, DIVISION - LATEHAR, STATE - JHARKHAND



PLOT NO.-404, JJ LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

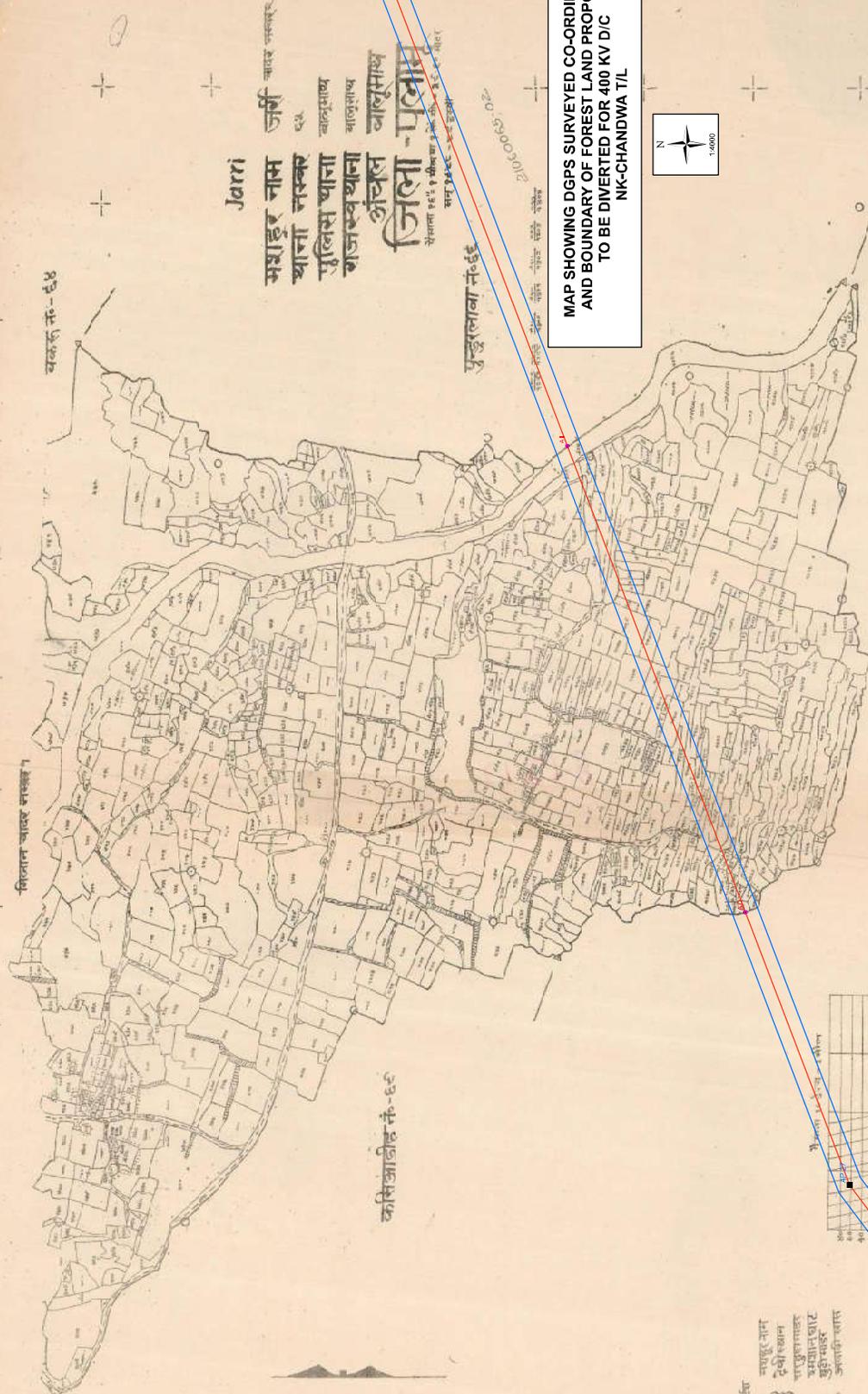
Point No.	Easting	Northing
25	280907.00	2636639.00
26	280903.00	2636663.00
27	280775.00	2636612.00
28	280777.00	2636602.00
29	280761.00	2636606.00
30	280672.00	2636571.00
31	280650.00	2636562.00
32	280572.00	2636532.00
33	280637.00	2636527.00

Point No.	Easting	Northing
34	280713.00	2636559.00
35	280730.00	2636570.00
36	280767.00	2636577.00
37	280783.00	2636586.00
38	280815.00	2636582.00
39	280804.00	2636607.00
40	280834.00	2636617.00
41	280851.00	2636635.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Pundurlawa	Balumath	135				3827.000	Jungle Jhari	0.3827	6.6381
		318				500.000		0.05	
		327				2235.000		0.2235	
		404				5883.000		0.5883	
Total					12445.000		1.2445	6.6381	



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L

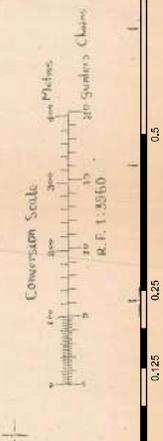


Legend

- TOWER LOCATION
- IN & OUT COORDINATES
- TRANSMISSION LINE

GEOREFERENCED COORDINATES POINT OF IN AND OUT

COORDINATE ID	GEOREFERENCED COORDINATES	UTM COORDINATES
IN	847053.247E 274426.117N	48QJ2789055358 UTM
OUT	847056.622E 274326.121N	48QJ2789055368 UTM



NO.	DATE	REMARKS



प्रमाणित
 सहायक सूर्य
 3006 देवीप्रसाद
 81009 पंचप्रसाद
 81009 पंचप्रसाद
 81009 पंचप्रसाद
 81009 पंचप्रसाद
 81009 पंचप्रसाद

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

- D/GPS POINT
- FOREST COORDINATE
- TRANSMISSION LINE

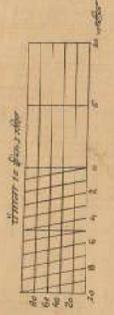
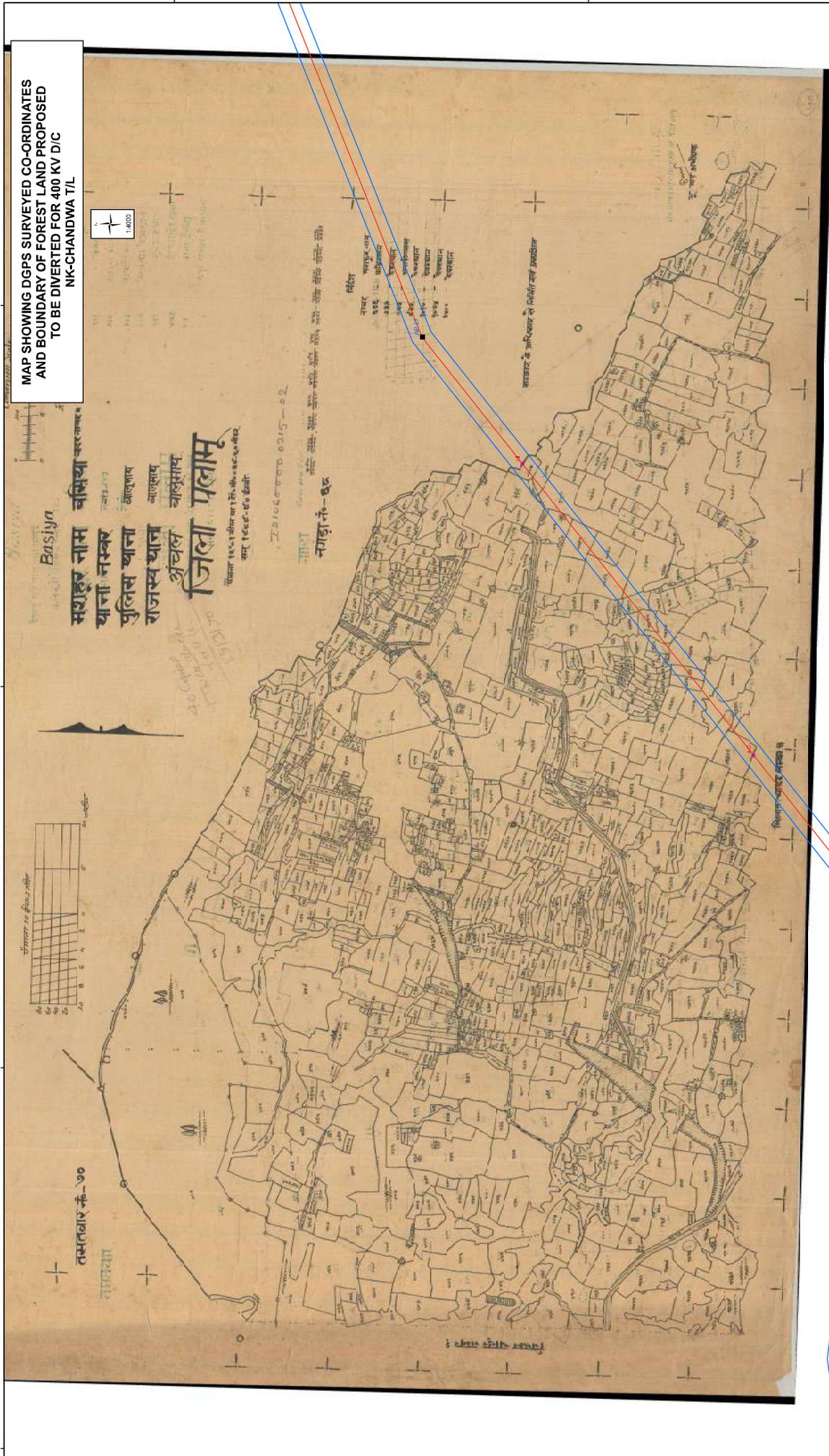
GEOREFERENCED COORDINATES POINT

COORDINATES ID	GEOREFERENCED COORDINATES	UTM COORDINATES
A1	88°56'15.97"E 22°42'12.26"N	49NCR1114000000 171M



USE ONLY FOR TRANSMISSION LINE

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



नागा-ने-३५
जिला पलामू



GEOREFENCED COORDINATES POINT

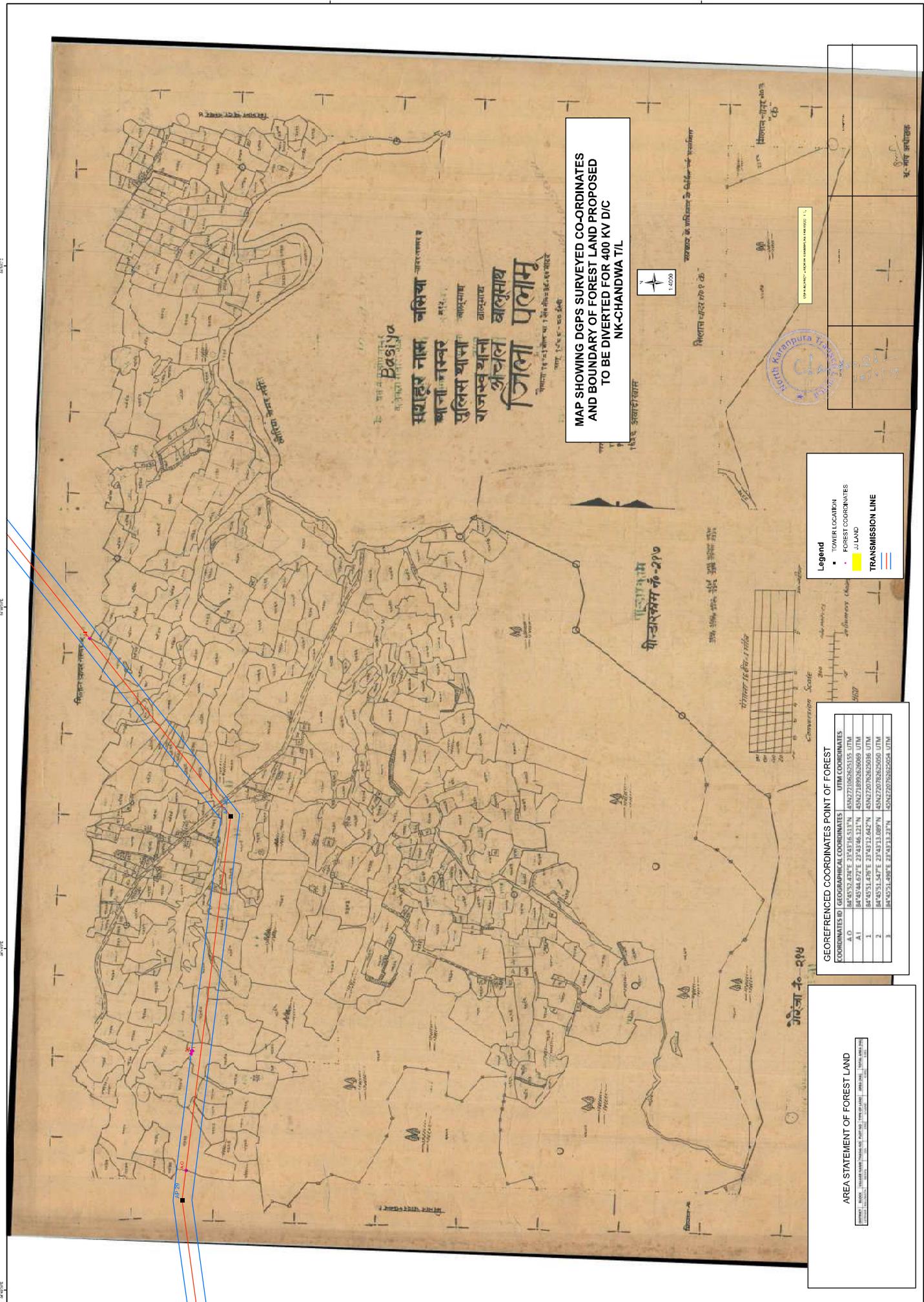
COORDINATES ID	LONGITUDE IN UTM (EASTING)	LATITUDE IN UTM (NORTHING)
4.0	4872894.807E	214514.286N
4.1	4872894.807E	214514.286N

Legend

- TOWER LOCATION
- IN OUT COORDINATES
- TRANSMISSION LINE

Digitized by: **North Chandrapur Transco**

15/11



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA TL

Basija
 मराठूर नाम नसिया
 बानो नस्वर नासिया
 पुलिस थाना नासिया
 राजस्व थाना नासिया
 अंचल जिला पलामू
 तालुका नासिया



1:5000

Legend

- TOWER LOCATION
- FOREST COORDINATES
- J-LAND
- TRANSMISSION LINE

GEOREFERENCED COORDINATES POINT OF FOREST

COORDINATES ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
A.O	84°53'42"E 29°43'16.51"N	45N2721062625155 UTM
A.1	84°53'46.67"E 29°43'46.121"N	45N2718992626069 UTM
1	84°53'14.87"E 29°43'11.642"N	45N27200782625036 UTM
2	84°53'14.87"E 29°43'11.087"N	45N27200782625036 UTM
3	84°53'14.88"E 29°43'13.27"N	45N27200782625054 UTM

AREA STATEMENT OF FOREST LAND

SR	AREA	PERCENTAGE	TOTAL AREA
1	1.00	100.00	1.00
2	1.00	100.00	1.00
3	1.00	100.00	1.00



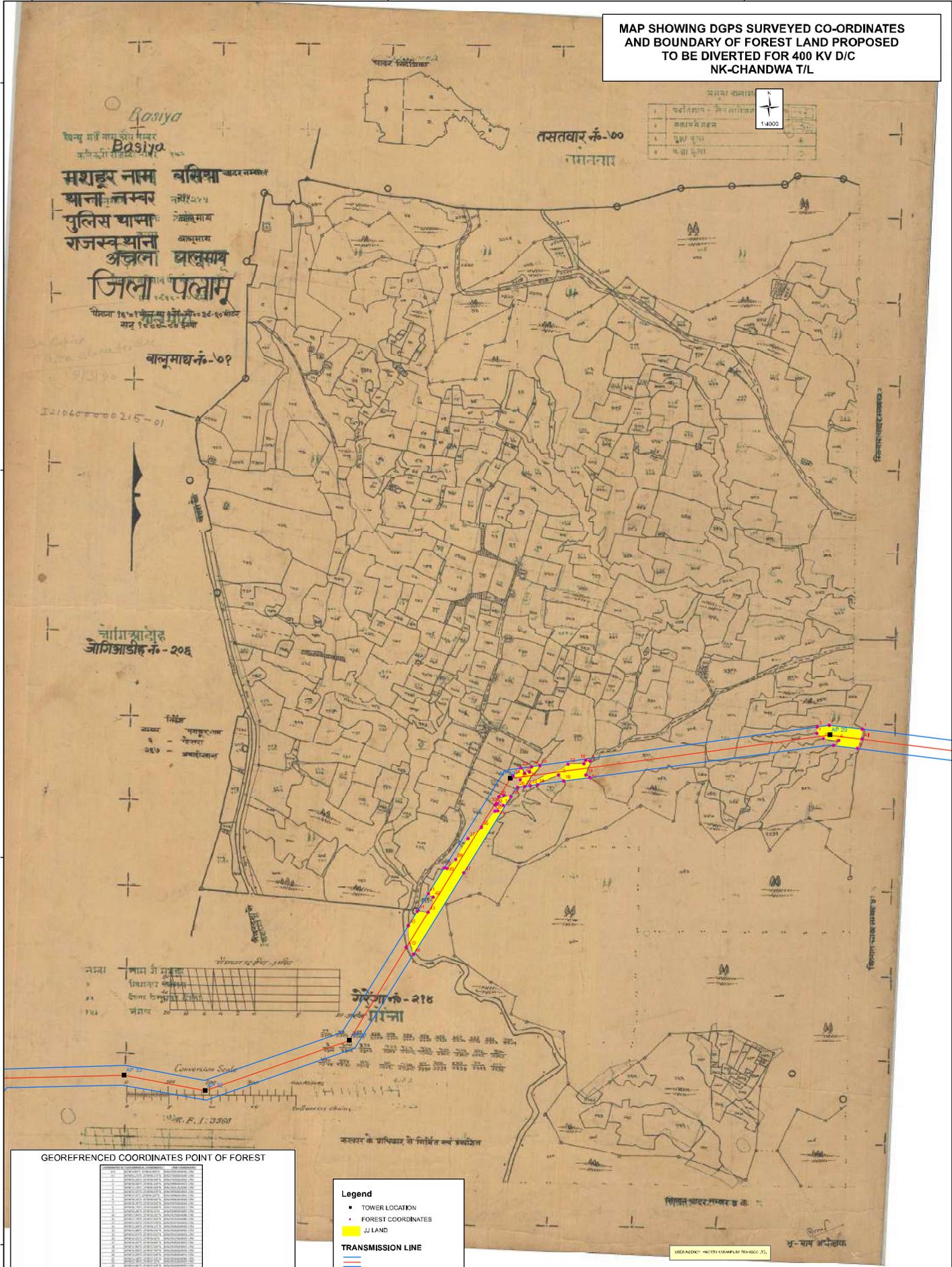
श्री नन्दराम नं-270

गवेजा नं-284

सर्वेक्षण संख्या: 100/2018/10000

कार्यवाही संख्या: 100/2018/10000

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



GEOREFENCED COORDINATES POINT OF FOREST

POINT NO.	Easting	Northing
1	485000.00	2000000.00
2	485000.00	2000000.00
3	485000.00	2000000.00
4	485000.00	2000000.00
5	485000.00	2000000.00
6	485000.00	2000000.00
7	485000.00	2000000.00
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80	485000.00	2000000.00
81	485000.00	2000000.00
82	485000.00	2000000.00
83	485000.00	2000000.00
84	485000.00	2000000.00
85	485000.00	2000000.00
86	485000.00	2000000.00
87	485000.00	2000000.00
88	485000.00	2000000.00
89	485000.00	2000000.00
90	485000.00	2000000.00
91	485000.00	2000000.00
92	485000.00	2000000.00
93	485000.00	2000000.00
94	485000.00	2000000.00
95	485000.00	2000000.00
96	485000.00	2000000.00
97	485000.00	2000000.00
98	485000.00	2000000.00
99	485000.00	2000000.00
100	485000.00	2000000.00

Legend

- TOWER LOCATION
- FOREST COORDINATES
- JJ LAND
- TRANSMISSION LINE

AREA STATEMENT OF FOREST LAND

SERIAL NO.	SECTION	SECTION NAME	TOTAL AREA (SQ. METRE)	AREA (HA)	TOTAL AREA (HA)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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89					
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92					
93					
94					
95					
96					
97					
98					
99					
100					

UDRAGADY - NORTH CHANDWA TRANSCO, LTD.

भू-चाप अभिलेख

North Chandwara Transco Limited

15/1/17

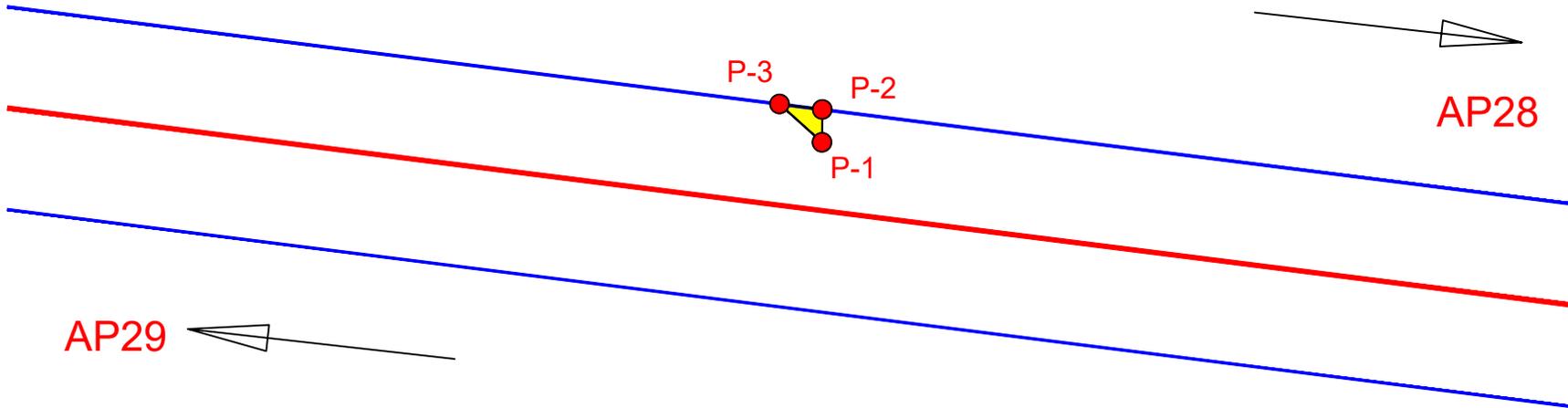
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - BASIYA, DIVISION - LATEHAR, STATE - JHARKHAND



PLOT NO.-1592, JJ LAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272076.00	2625036.00
2	272078.00	2625050.00
3	272076.00	2625054.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

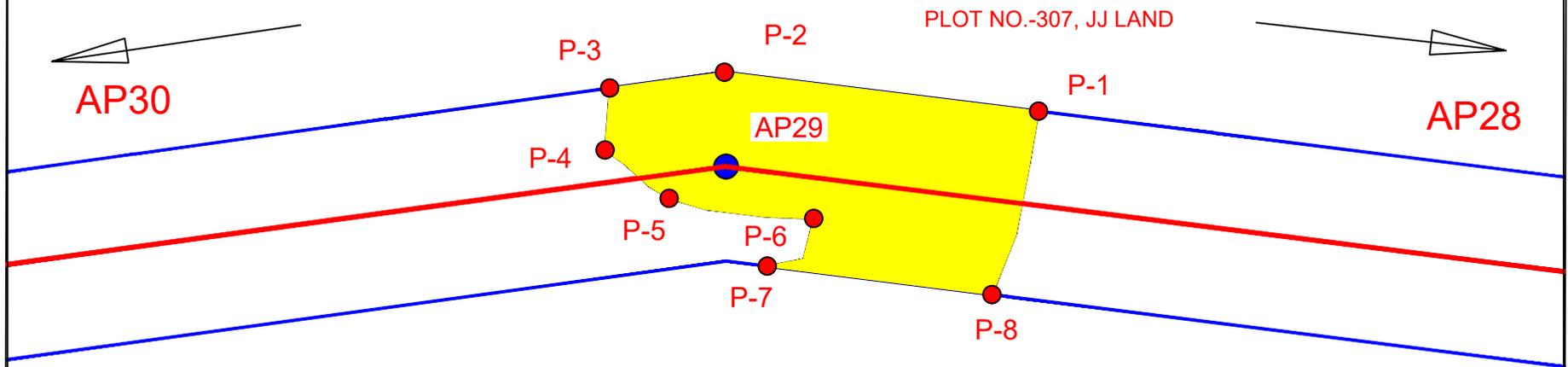
District : Latehar

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Basiya	Balumath	1592				9.000	0.0009	13.6045	
		249				4001.000	0.4001		
		252				13796.000	1.3796		
		307				4037.000	0.4037		
Total					21843.000	2.1843	13.6045		

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - BASIYA, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	277039.00	2635062.00
2	276960.00	2635072.00
3	276931.00	2635068.00
4	276930.00	2635053.00
5	276946.00	2635041.00
6	276982.00	2635036.00
7	276970.00	2635024.00
8	277026.00	2635017.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



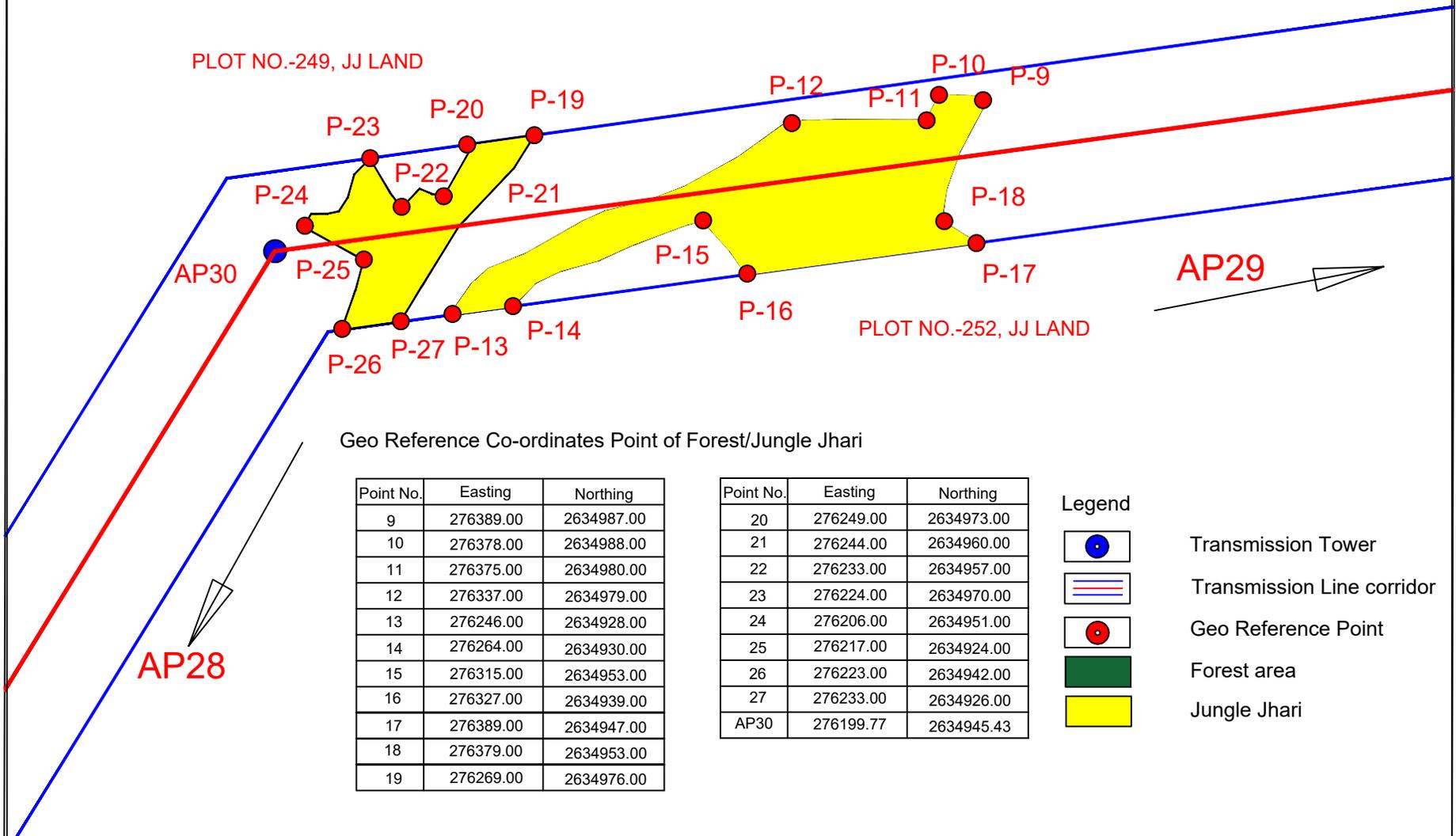
Forest area



Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - BASIYA, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
9	276389.00	2634987.00
10	276378.00	2634988.00
11	276375.00	2634980.00
12	276337.00	2634979.00
13	276246.00	2634928.00
14	276264.00	2634930.00
15	276315.00	2634953.00
16	276327.00	2634939.00
17	276389.00	2634947.00
18	276379.00	2634953.00
19	276269.00	2634976.00

Point No.	Easting	Northing
20	276249.00	2634973.00
21	276244.00	2634960.00
22	276233.00	2634957.00
23	276224.00	2634970.00
24	276206.00	2634951.00
25	276217.00	2634924.00
26	276223.00	2634942.00
27	276233.00	2634926.00
AP30	276199.77	2634945.43

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

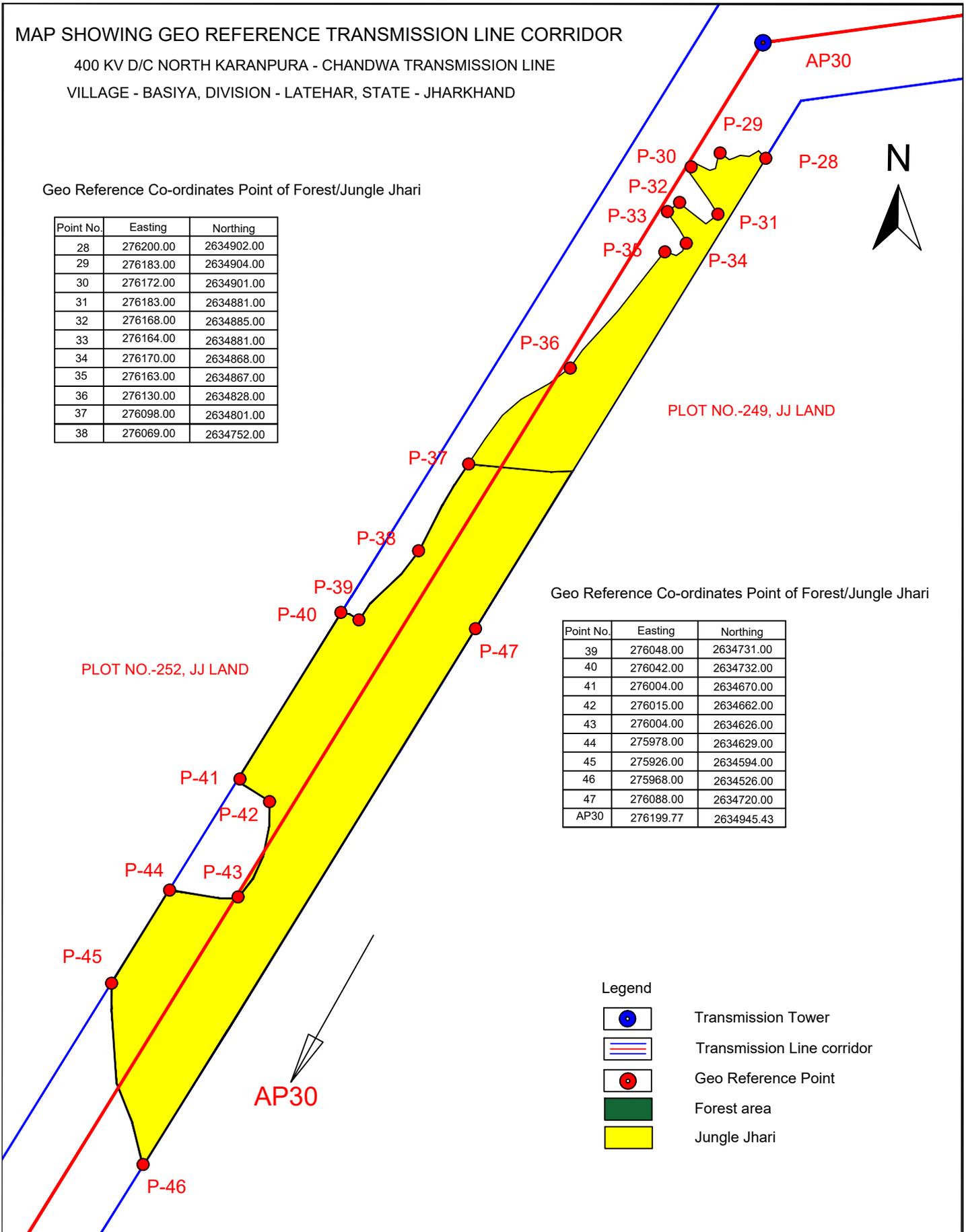
400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - BASIYA, DIVISION - LATEHAR, STATE - JHARKHAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
28	276200.00	2634902.00
29	276183.00	2634904.00
30	276172.00	2634901.00
31	276183.00	2634881.00
32	276168.00	2634885.00
33	276164.00	2634881.00
34	276170.00	2634868.00
35	276163.00	2634867.00
36	276130.00	2634828.00
37	276098.00	2634801.00
38	276069.00	2634752.00

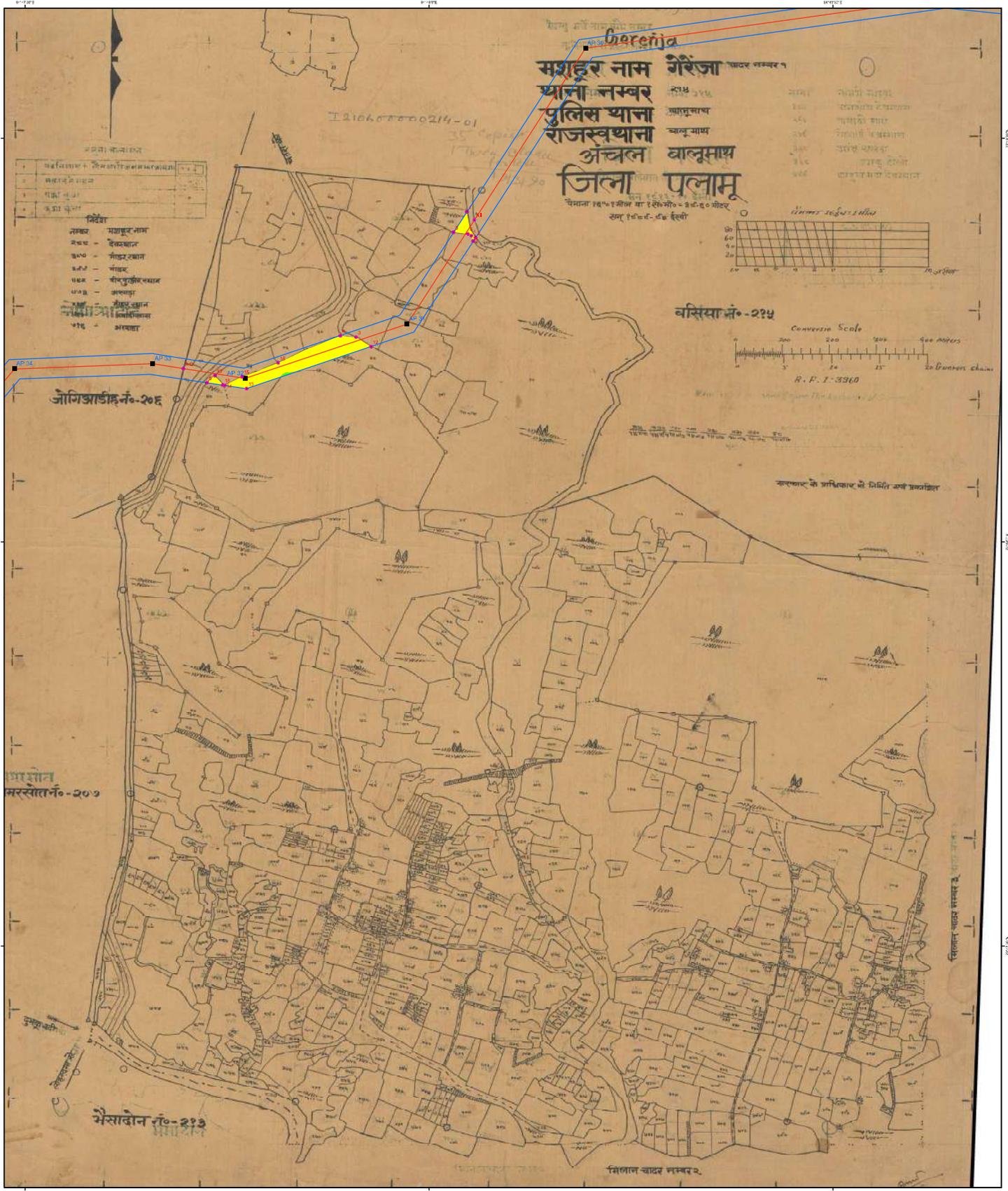
Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
39	276048.00	2634731.00
40	276042.00	2634732.00
41	276004.00	2634670.00
42	276015.00	2634662.00
43	276004.00	2634626.00
44	275978.00	2634629.00
45	275926.00	2634594.00
46	275968.00	2634526.00
47	276088.00	2634720.00
AP30	276199.77	2634945.43



Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari



GEOREFENCED COORDINATES POINT OF FOREST

S.NO	GEOREFENCED COORDINATES	UTM COORDINATES
1	84°47'41.261"E 23°48'12.897"N	450275435304226 UTM
2	84°48'3.397"E 23°48'23.957"N	450275960504406 UTM
3	84°48'2.814"E 23°48'24.566"N	4502759452634575 UTM
4	84°48'3.451"E 23°48'22.657"N	4502759622634536 UTM
5	84°47'54.267"E 23°48'15.247"N	4502757073034292 UTM
6	84°47'53.816"E 23°48'13.338"N	4502756747034296 UTM
7	84°47'43.316"E 23°48'11.857"N	4502755392634193 UTM
8	84°48'1.628"E 23°48'23.657"N	4502757155034525 UTM
9	84°47'59.427"E 23°48'17.437"N	4502756852634537 UTM
10	84°47'58.847"E 23°48'17.775"N	4502756812634568 UTM
11	84°47'58.151"E 23°48'17.377"N	4502756809034556 UTM
12	84°47'58.727"E 23°48'17.275"N	4502756826034593 UTM
13	84°47'53.968"E 23°48'15.554"N	4502756902634302 UTM
14	84°47'55.684"E 23°48'14.543"N	4502757305034270 UTM
15	84°47'46.467"E 23°48'13.411"N	4502756747034296 UTM
16	84°47'44.827"E 23°48'13.038"N	4502754292634186 UTM
17	84°47'46.117"E 23°48'12.305"N	4502754662634205 UTM
18	84°47'48.787"E 23°48'13.338"N	4502755422634236 UTM
19	84°47'46.947"E 23°48'12.747"N	4502753949034048 UTM
20	84°47'44.677"E 23°48'11.675"N	4502754252634187 UTM
21	84°47'48.087"E 23°48'12.378"N	4502754892634200 UTM

Legend

- TOWER LOCATION
- FOREST COORDINATES
- LAND
- FOREST AREA
- TRANSMISSION LINE

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO.	PLOT NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
LATEHA	BALUNATH	GERINJA	238	21	LAND	1.031	3.3374
				22	LAND	0.939	
				23	FOREST	1.3674	0.3674

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



1:4000



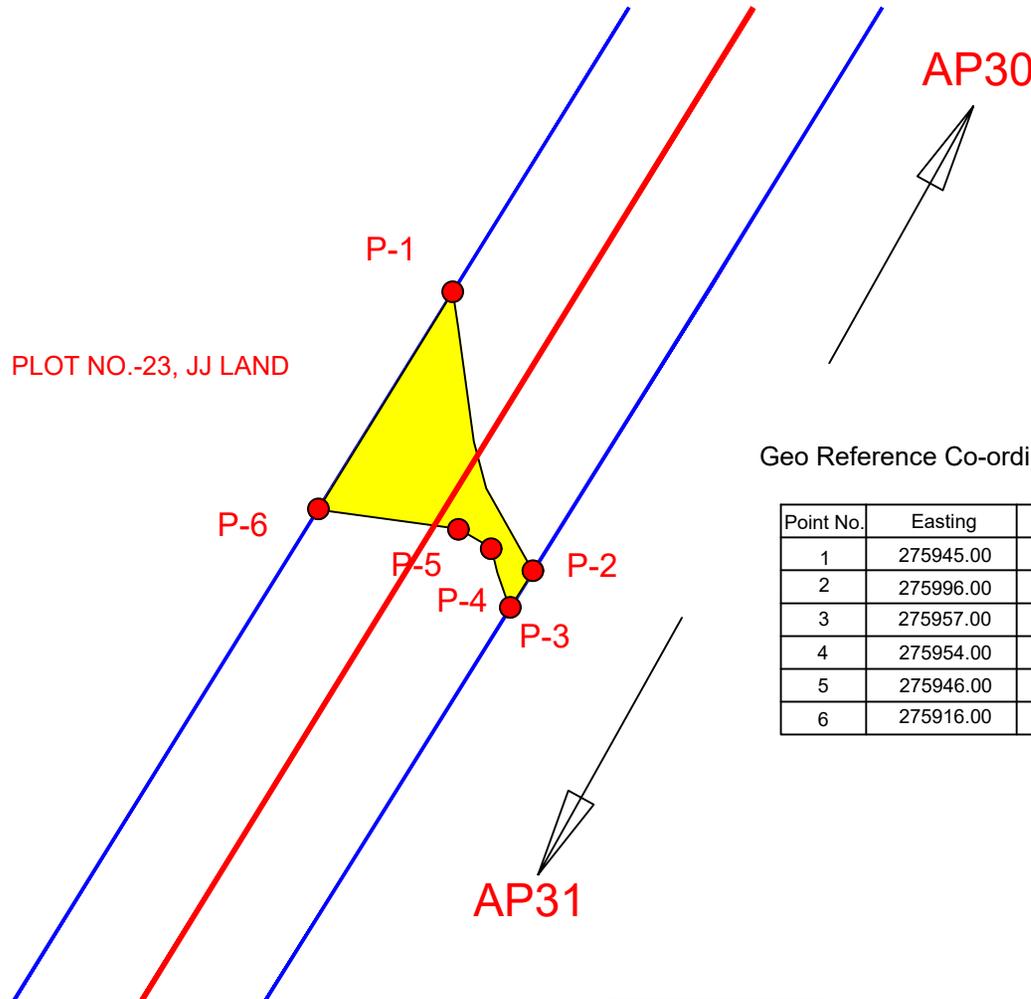
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - GERENJA, DIVISION - LATEHAR, STATE - JHARKHAND



PLOT NO.-23, JJ LAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

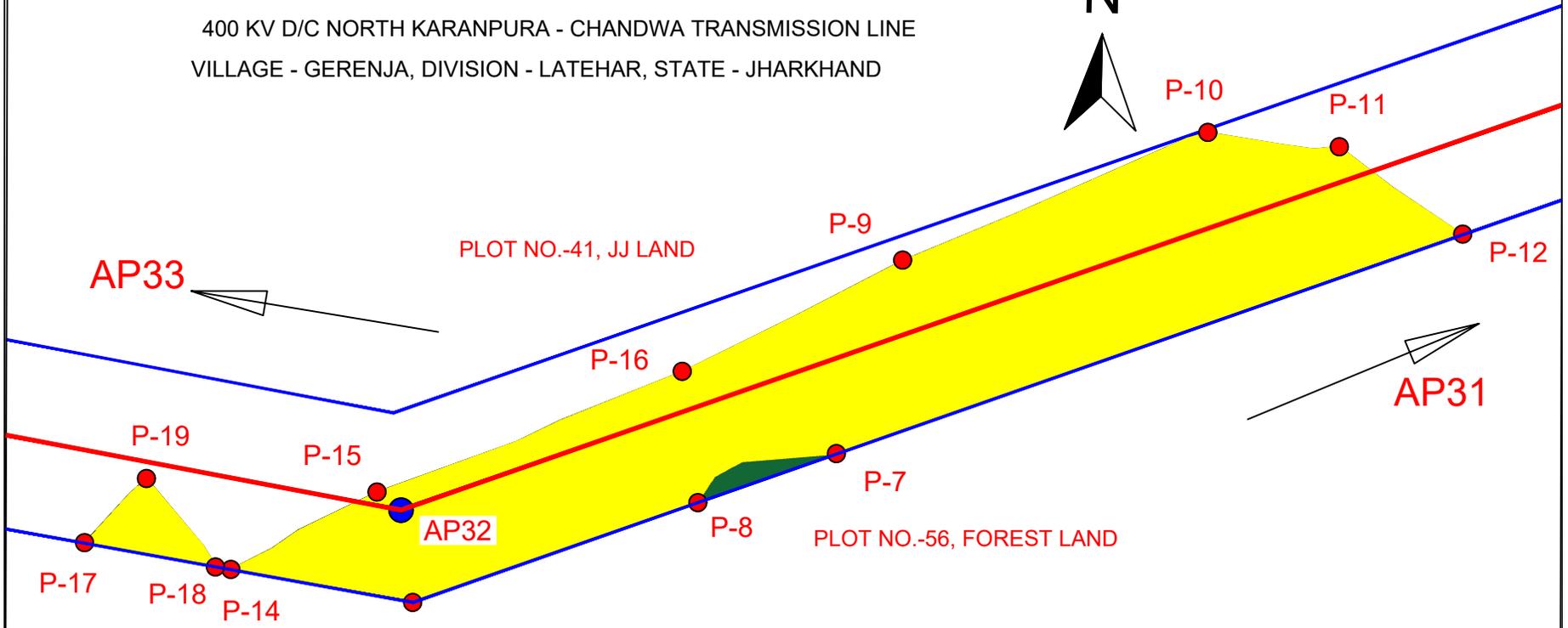
Point No.	Easting	Northing
1	275945.00	2634575.00
2	275996.00	2634516.00
3	275957.00	2634508.00
4	275954.00	2634521.00
5	275946.00	2634525.00
6	275916.00	2634529.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - GERENJA, DIVISION - LATEHAR, STATE - JHARKHAND



Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
7	275581.00	2634215.00
8	275546.00	2634203.00
9	275599.00	2634263.00
10	275674.00	2634296.00
11	275708.00	2634292.00
12	275738.00	2634270.00
13	275475.00	2634178.00
14	275430.00	2634186.00
15	275466.00	2634205.00

Point No.	Easting	Northing
16	275542.00	2634236.00
17	275393.00	2634193.00
18	275425.00	2634187.00
19	275409.00	2634209.00
AP32	275472.21	2634201.50

400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

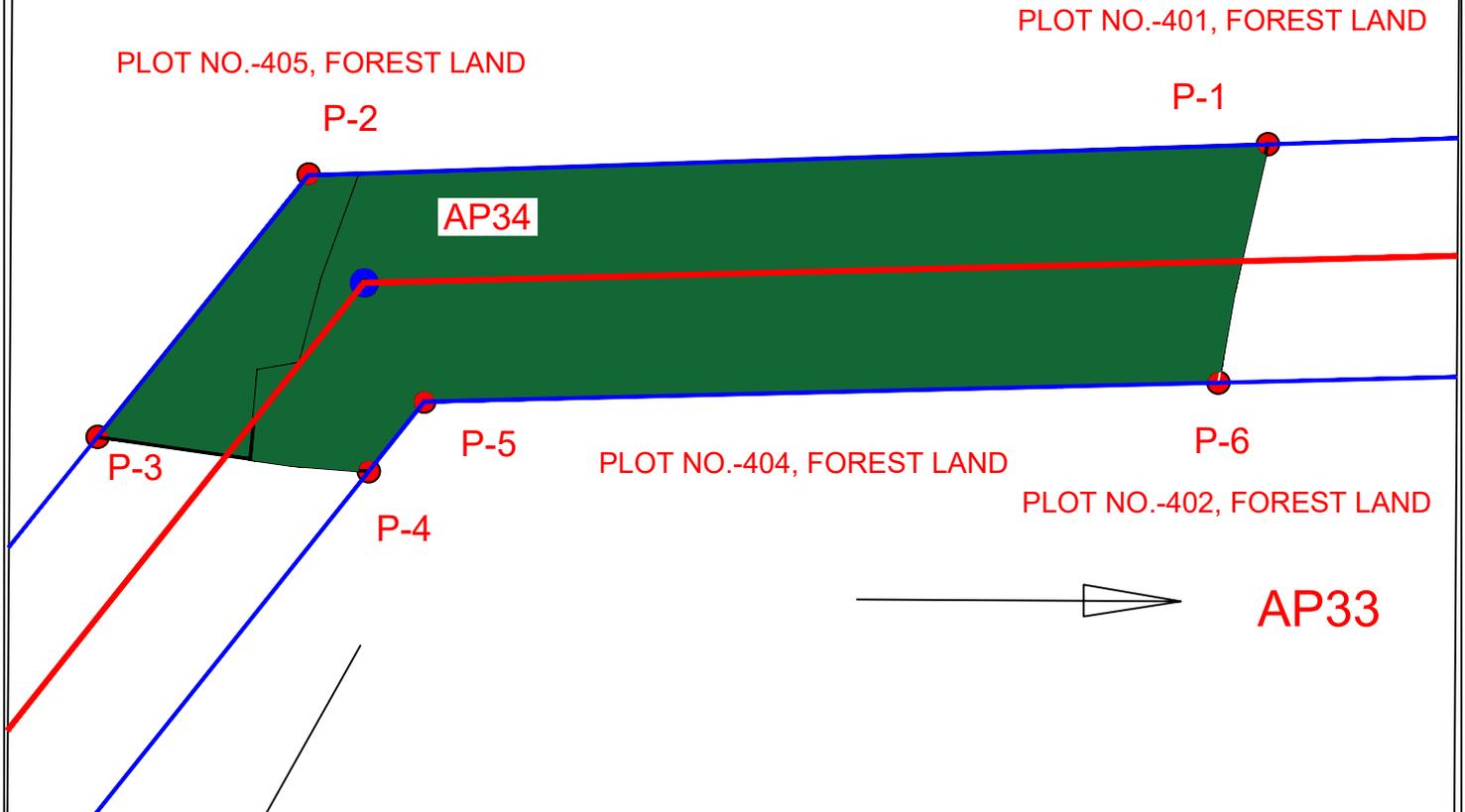
District : Latehar

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Gerenja	Balumath	23				1035.000	Jungle Jhari	0.1035	2.2659
		41				10210.000		1.0210	
		45				329.000		0.0329	
		56				128.000	Protected Forest	0.0128	
Total					11702.000		1.1702	2.2659	

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - JOGIADIH, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	275162.00	2634257.00
2	274976.00	2634252.00
3	274935.00	2634200.00
4	274988.00	2634194.00
5	274998.00	2634207.00
6	275152.00	2634211.00
AP34	274987.46	2634231.16

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



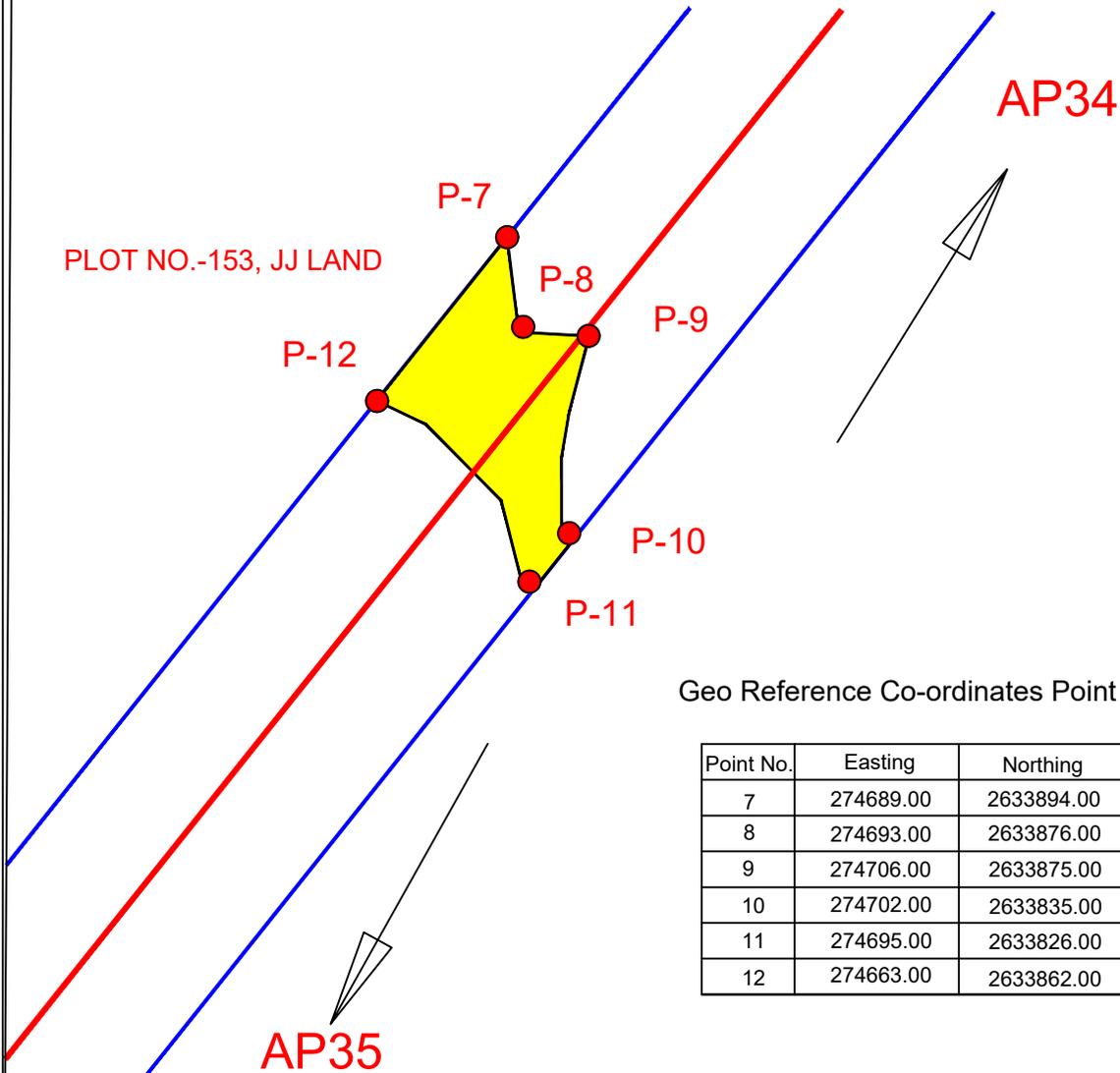
Jungle Jhari

AP35

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - JOGIADIH, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
7	274689.00	2633894.00
8	274693.00	2633876.00
9	274706.00	2633875.00
10	274702.00	2633835.00
11	274695.00	2633826.00
12	274663.00	2633862.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Jogiadih	Balumath	401				1022.000	Protected Forest	0.1022	2.7498
		402				221.000		0.0221	
		404				7229.000		0.7229	
		405				1101.000		0.1101	
		153				1211.000	Jungle Jhari	0.1211	
Total						10784.000		1.0784	2.7498

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



0 0.0976 0.15 0.225 0.3 Kilometers

Legend

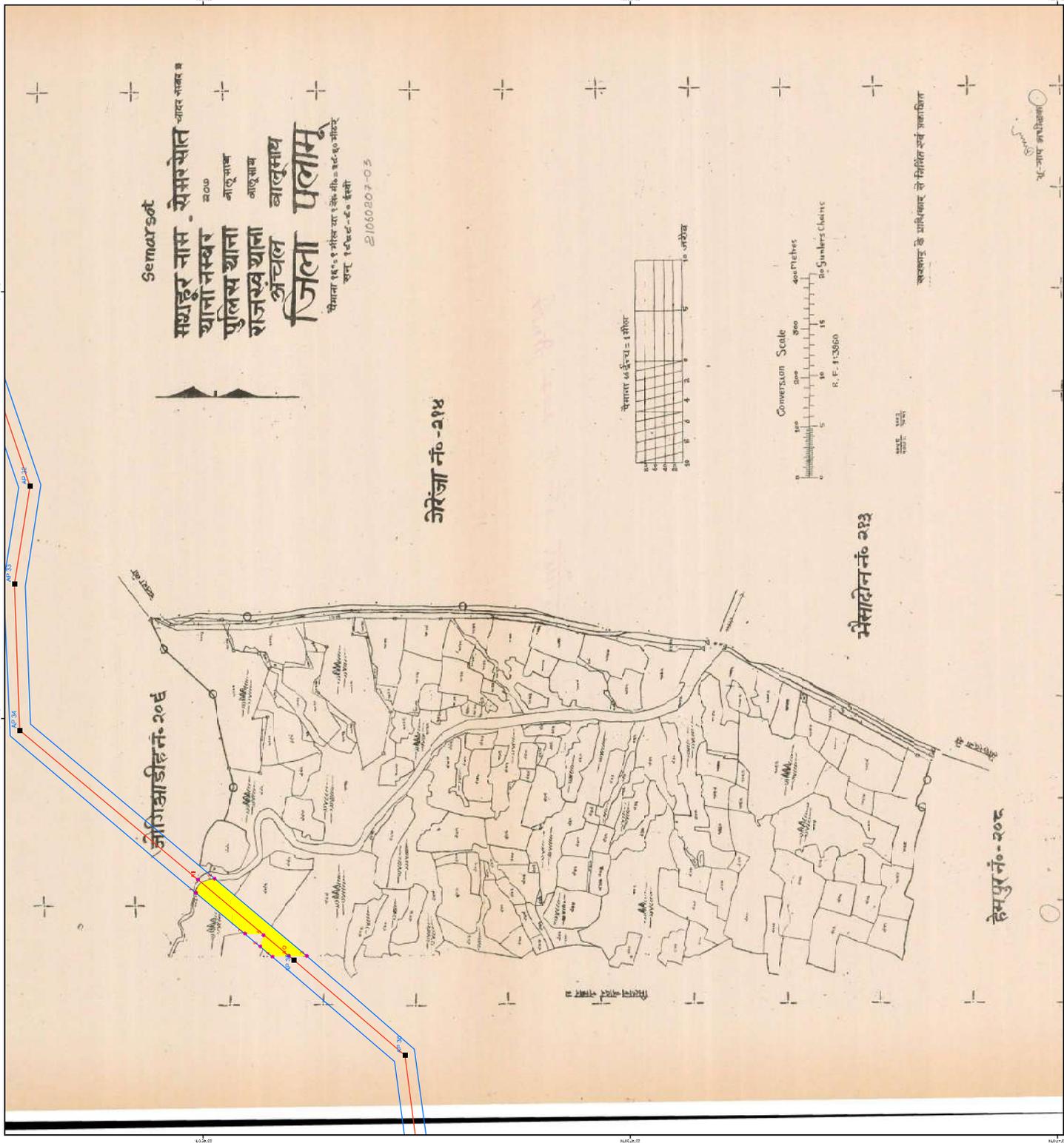
- FOREST LOCATIONS
- FOREST COORDINATES
- LAND
- DEMONSTRATION LINE

GEOREFENCED COORDINATES POINT

POINT NO.	Easting (m)	Northing (m)
1	500000.000	1500000.000
2	500000.000	1500000.000
3	500000.000	1500000.000
4	500000.000	1500000.000
5	500000.000	1500000.000
6	500000.000	1500000.000
7	500000.000	1500000.000
8	500000.000	1500000.000
9	500000.000	1500000.000
10	500000.000	1500000.000
11	500000.000	1500000.000
12	500000.000	1500000.000
13	500000.000	1500000.000
14	500000.000	1500000.000
15	500000.000	1500000.000
16	500000.000	1500000.000
17	500000.000	1500000.000
18	500000.000	1500000.000
19	500000.000	1500000.000
20	500000.000	1500000.000

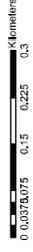
AREA STATEMENT OF FOREST

Sl. No.	Area (Hectares)	Area (Acres)
1	100.00	2.47
2	100.00	2.47
3	100.00	2.47
4	100.00	2.47
5	100.00	2.47
6	100.00	2.47
7	100.00	2.47
8	100.00	2.47
9	100.00	2.47
10	100.00	2.47
11	100.00	2.47
12	100.00	2.47
13	100.00	2.47
14	100.00	2.47
15	100.00	2.47
16	100.00	2.47
17	100.00	2.47
18	100.00	2.47
19	100.00	2.47
20	100.00	2.47



Lotus Kanyapura Transco Ltd
 Cl
 15/1/11

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

- FOREST LOCATIONS
- FOREST COORDINATES
- 400KV
- TRANSMISSION LINE

GEOREFENCED COORDINATES POINT

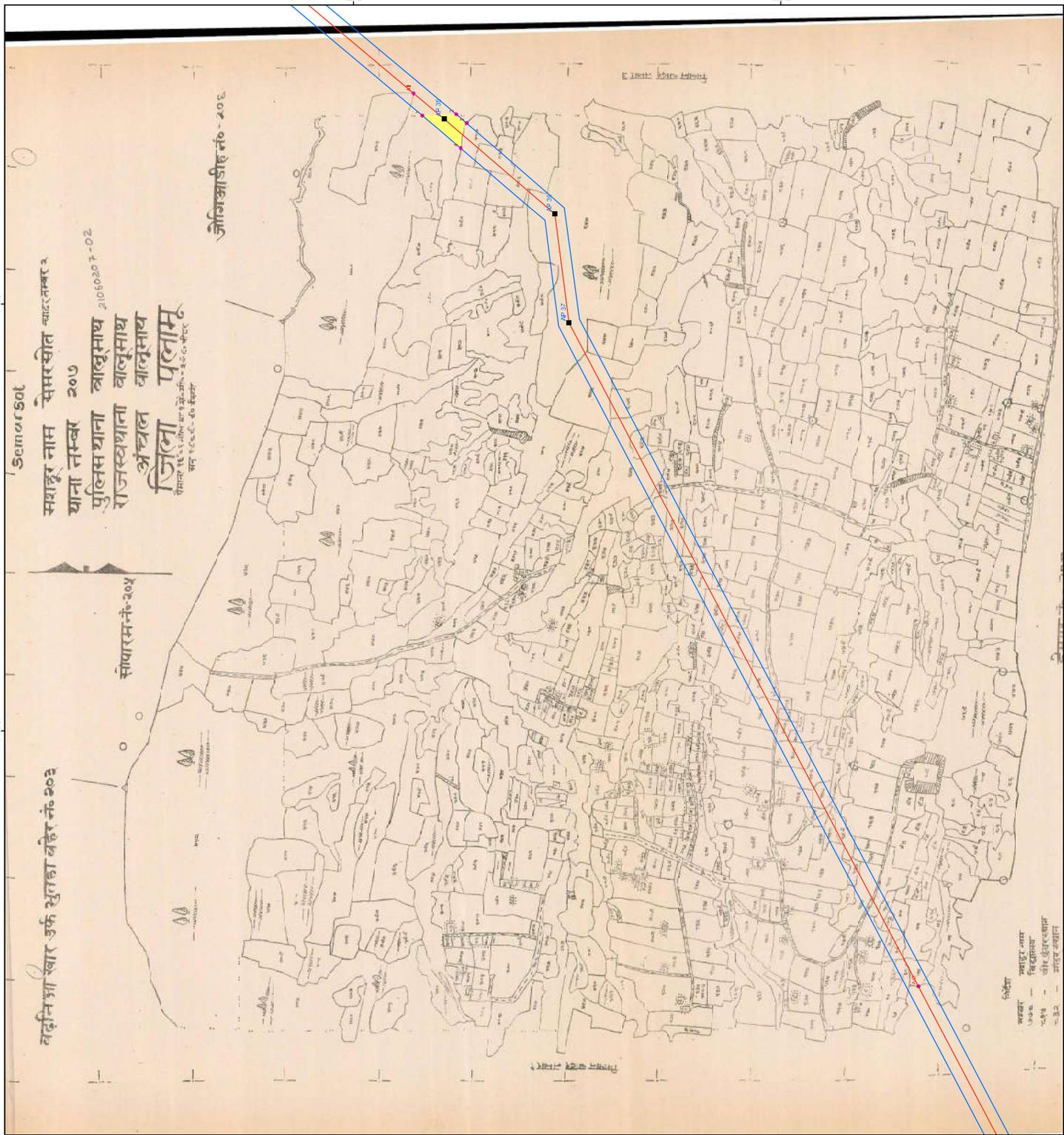
NO.	COORDINATES	DESCRIPTION
1	2106030.7	POINT 1
2	2106030.7	POINT 2
3	2106030.7	POINT 3
4	2106030.7	POINT 4
5	2106030.7	POINT 5
6	2106030.7	POINT 6
7	2106030.7	POINT 7
8	2106030.7	POINT 8
9	2106030.7	POINT 9
10	2106030.7	POINT 10

AREA STATEMENT OF FOREST

Sl. No.	Description	Area (Hectares)
1	Forest Land	10.00
2	Other Land	5.00
3	Water	2.00
4	Barren Land	1.00
5	Settlement	0.50
6	Other	0.50
Total		19.00



Project Name	North Karanpur Transmission Project
Date	15/11
Signature	
Remarks	



तहसील खासियार उर्फ सुलहा बहेर नं० २०३

सोपारसन-२०५

Semar Sol

समाह्वर नाम सोपारसोत चारुतलम्बर ३
 थाना नम्बर २०५
 पुलिस थाना वाखुनाथ २१०६०३०७-०२
 राजस्थाना वाखुनाथ
 अंचल वाखुनाथ
 जिला पुलनाम
 पिनकोड ३६६००९

जोगिआडीह नं०-२०६

दिनांक
 नम्बर
 ३०६
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 ३३

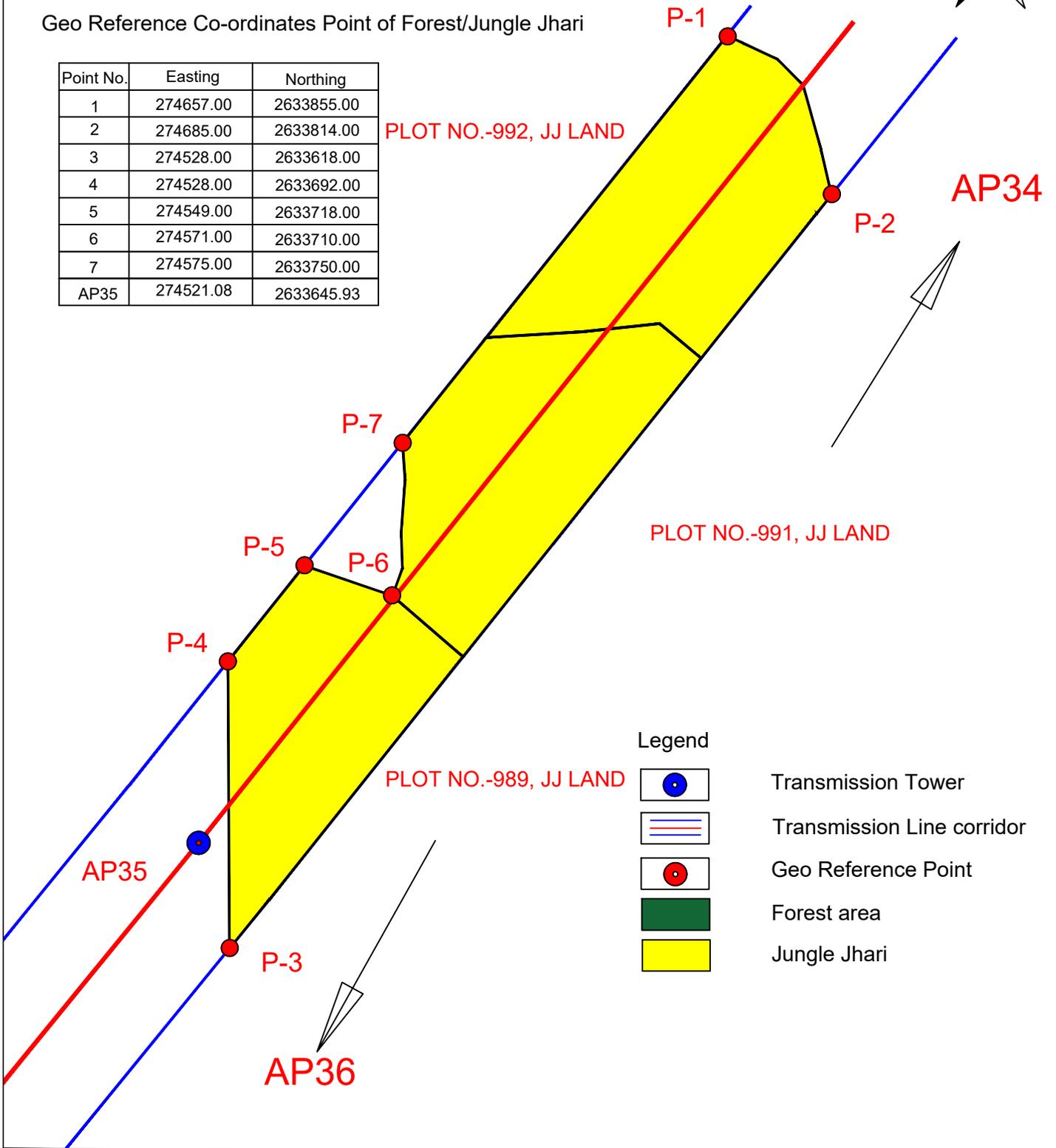
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - SEMARSOT, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	274657.00	2633855.00
2	274685.00	2633814.00
3	274528.00	2633618.00
4	274528.00	2633692.00
5	274549.00	2633718.00
6	274571.00	2633710.00
7	274575.00	2633750.00
AP35	274521.08	2633645.93

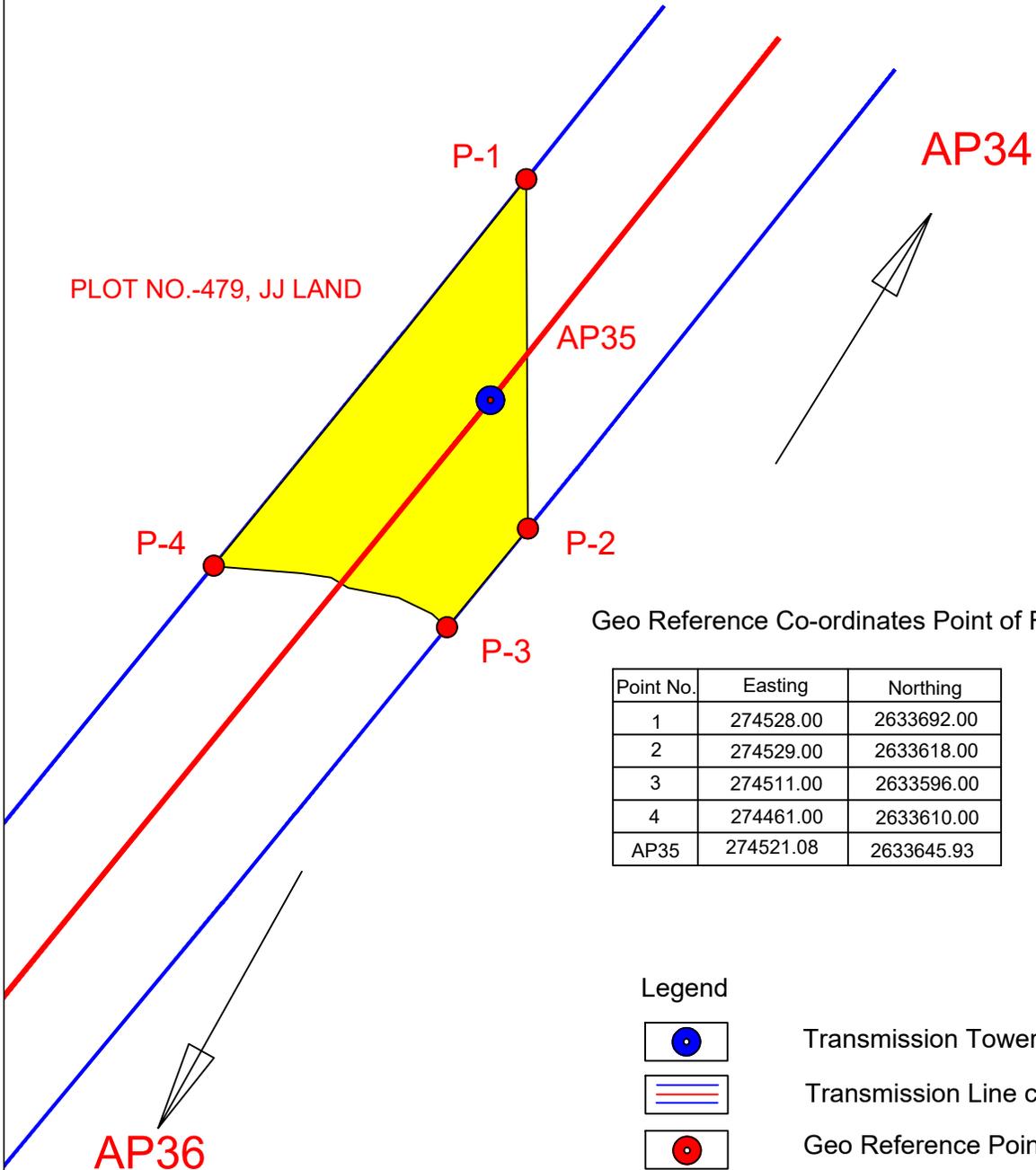


Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - SEMARSOT, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	274528.00	2633692.00
2	274529.00	2633618.00
3	274511.00	2633596.00
4	274461.00	2633610.00
AP35	274521.08	2633645.93

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

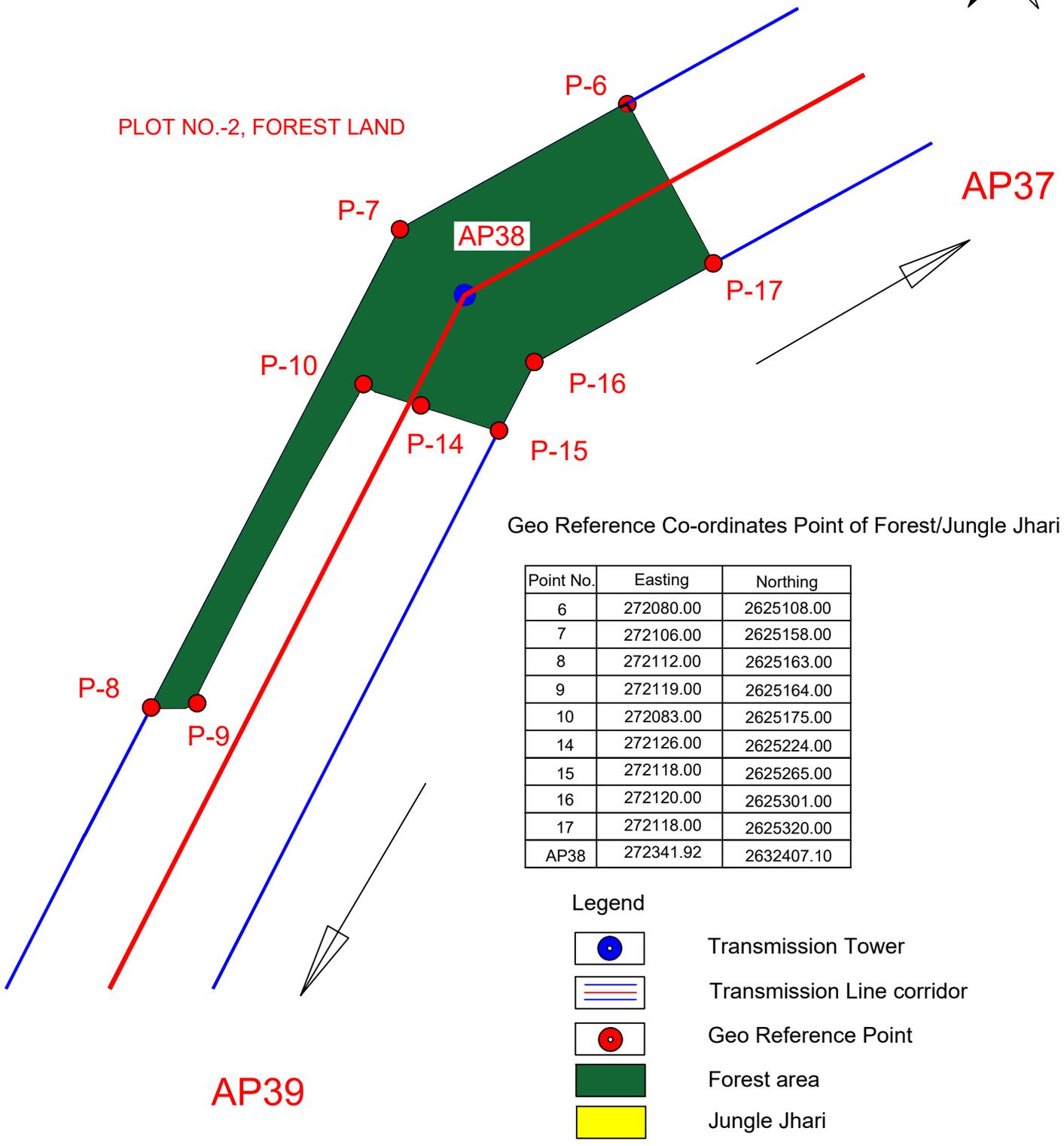
District : Latehar

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Semarsot	Balumath	479				3010.000	Jungle Jhari	0.3010	9.3591
		989				3143.000		0.3143	
		991				3703.000		0.3703	
		992				3444.000		0.3444	
Total					13300.000		1.3300	9.3591	

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - HEMPUR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
6	272080.00	2625108.00
7	272106.00	2625158.00
8	272112.00	2625163.00
9	272119.00	2625164.00
10	272083.00	2625175.00
14	272126.00	2625224.00
15	272118.00	2625265.00
16	272120.00	2625301.00
17	272118.00	2625320.00
AP38	272341.92	2632407.10

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

District : Latehar

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Hempur	Balumath	2				4972.000	Protected Forest	0.4972	4.4631
Total						4972.000		0.4972	4.4631

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

- CHANDWA D/C BY
- FOREST COORDINATES
- FOREST AREA
- TRANSMISSION LINE

GEOREFENCED COORDINATES POINT OF FOREST

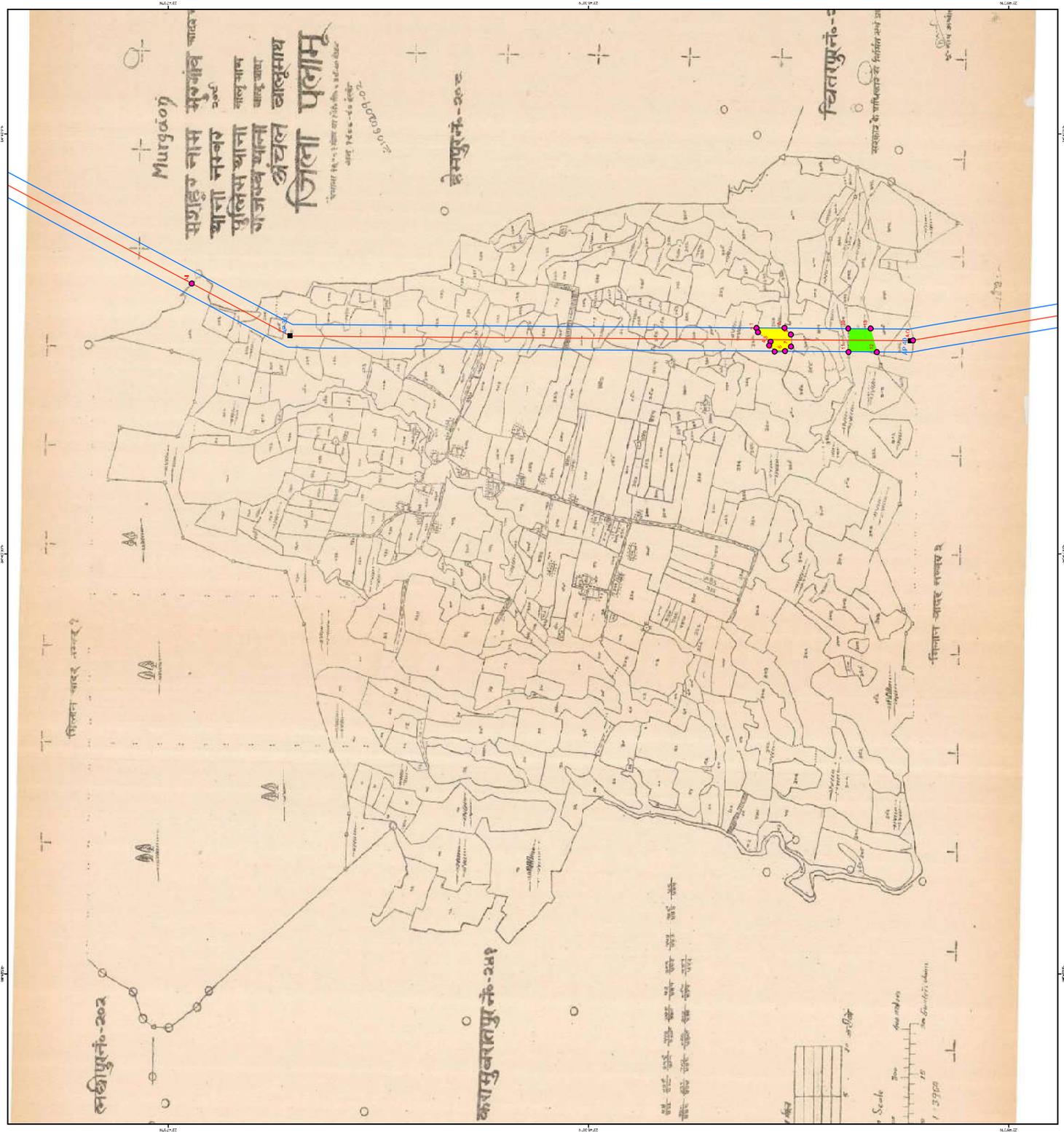
S.N.	COORDINATES IN GEOGRAPHICAL COORDINATES	UTM COORDINATES
1	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
2	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
3	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
4	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
5	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
6	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
7	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
8	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
9	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
10	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
11	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
12	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
13	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
14	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
15	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
16	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
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18	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
19	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
20	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
21	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
22	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
23	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
24	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
25	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
26	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
27	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
28	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
29	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
30	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
31	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
32	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
33	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
34	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
35	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
36	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
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38	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
39	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
40	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
41	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
42	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
43	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
44	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
45	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
46	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
47	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
48	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
49	18°50'30.00" N 75°00'00.00" E	482173.00000000000000
50	18°50'30.00" N 75°00'00.00" E	482173.00000000000000

AREA STATEMENT OF FOREST LAND

Sl. No.	Area (Sq. Meters)	Area (Acres)
1	10000.00	24.29
2	10000.00	24.29
3	10000.00	24.29
4	10000.00	24.29
5	10000.00	24.29
6	10000.00	24.29
7	10000.00	24.29
8	10000.00	24.29
9	10000.00	24.29
10	10000.00	24.29
11	10000.00	24.29
12	10000.00	24.29
13	10000.00	24.29
14	10000.00	24.29
15	10000.00	24.29
16	10000.00	24.29
17	10000.00	24.29
18	10000.00	24.29
19	10000.00	24.29
20	10000.00	24.29
21	10000.00	24.29
22	10000.00	24.29
23	10000.00	24.29
24	10000.00	24.29
25	10000.00	24.29
26	10000.00	24.29
27	10000.00	24.29
28	10000.00	24.29
29	10000.00	24.29
30	10000.00	24.29
31	10000.00	24.29
32	10000.00	24.29
33	10000.00	24.29
34	10000.00	24.29
35	10000.00	24.29
36	10000.00	24.29
37	10000.00	24.29
38	10000.00	24.29
39	10000.00	24.29
40	10000.00	24.29
41	10000.00	24.29
42	10000.00	24.29
43	10000.00	24.29
44	10000.00	24.29
45	10000.00	24.29
46	10000.00	24.29
47	10000.00	24.29
48	10000.00	24.29
49	10000.00	24.29
50	10000.00	24.29



APPROVED BY	DATE



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



Legend

- CHANGING CO-ORDINATE
- FOREST COORDINATE
- FOREST AREA
- TRANSMISSION LINE

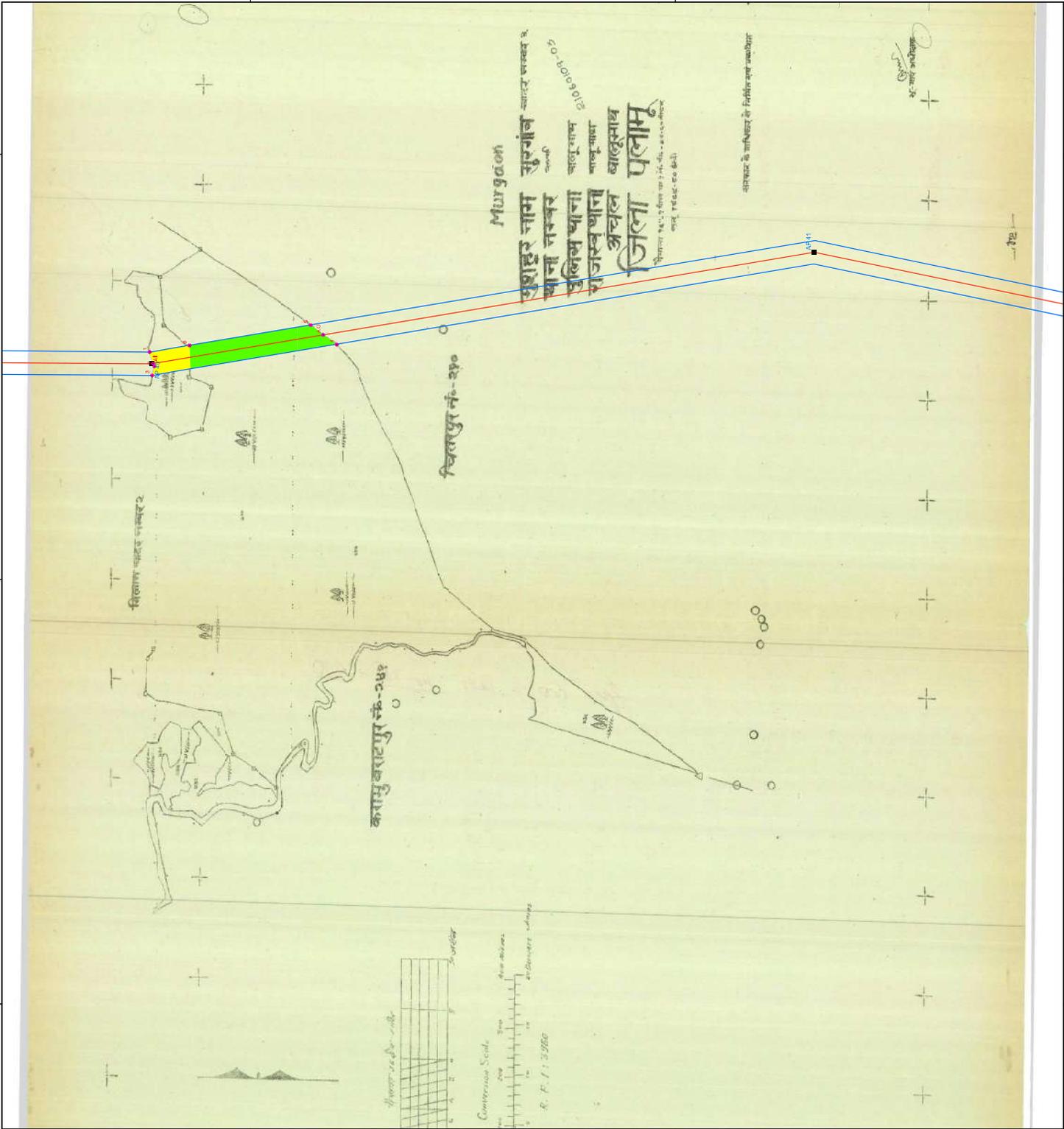
GEOREFENCED COORDINATES POINT OF FOREST

COORDINATES NO.	GEOREFENCED COORDINATES	FOREST COORDINATES
A.0	84°43'27.86E 23°04'54.71N	84°43'20.000000000000 UTM
A.1	84°43'28.227E 23°04'54.897N	84°43'20.000000000000 UTM
1	84°43'28.808E 23°04'55.117N	84°43'20.000000000000 UTM
2	84°43'29.389E 23°04'55.337N	84°43'20.000000000000 UTM
3	84°43'29.970E 23°04'55.557N	84°43'20.000000000000 UTM
4	84°43'30.551E 23°04'55.777N	84°43'20.000000000000 UTM
5	84°43'31.132E 23°04'55.997N	84°43'20.000000000000 UTM
6	84°43'31.713E 23°04'56.217N	84°43'20.000000000000 UTM

AREA STATEMENT OF FOREST LAND

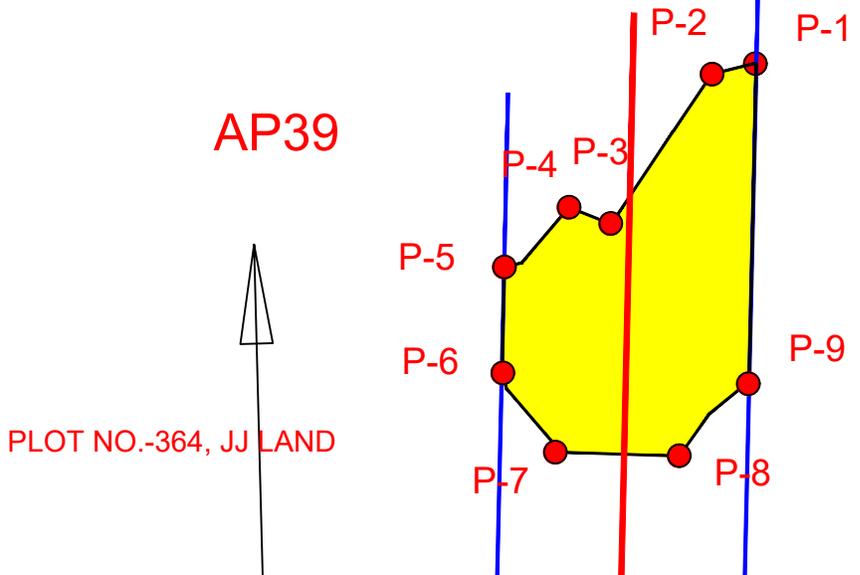
Sl. No.	Block	Area (Hectares)	Total Area (Hectares)
1			
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10			
11			
12			
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14			
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Stamp: North Karnataka Transmission Limited
 Date: 15/11/17
 Signature: [Handwritten Signature]



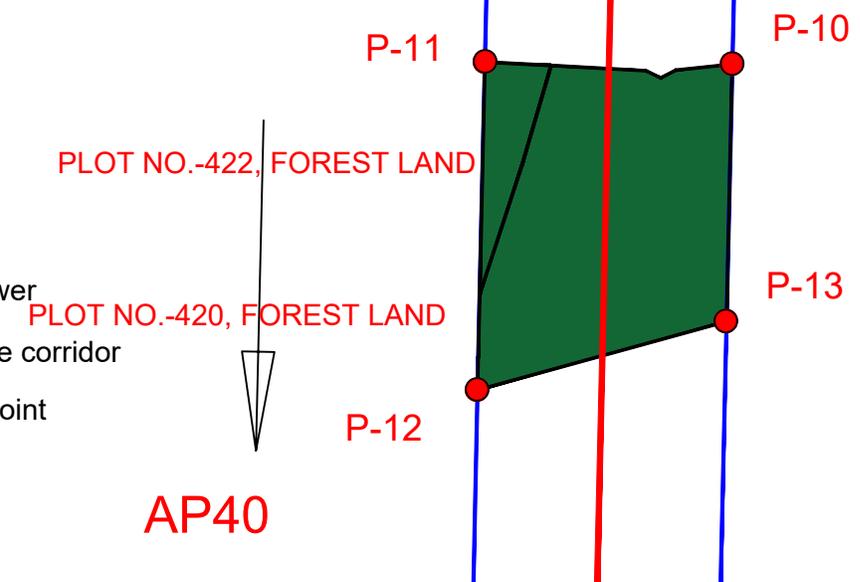
MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - MURGAON, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272014.00	2630741.00
2	272005.00	2630738.00
3	271986.00	2630710.00
4	271978.00	2630714.00
5	271965.00	2630702.00
6	271966.00	2630679.00
7	271975.00	2630666.00
8	271999.00	2630666.00
9	272013.00	2630680.00
10	272009.00	2630539.00
11	271962.00	2630540.00
12	271961.00	2630477.00
13	272009.00	2630491.00



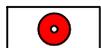
Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



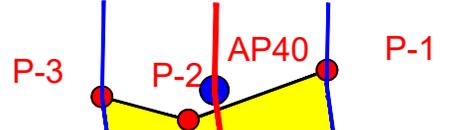
Forest area



Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - MURGAON, DIVISION - LATEHAR, STATE - JHARKHAND



PLOT NO.-427, JJ LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272006.00	2630407.00
2	271977.00	2630397.00
3	271959.00	2630402.00
4	272015.00	2630001.00
5	272055.00	2630056.00
6	272018.00	2630320.00
AP40	271983.17	2630403.84

PLOT NO.-428, FOREST LAND

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

PLOT NO.-434, FOREST LAND

AP41

P-4

P-5



P-4

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Murgaon	Balumath	364				2356.000	Jungle Jhari	0.2356	6.6985
		427				3770.000		0.3770	
		420				2289.000	Protected Forest	0.2289	
		422				285.000		0.0285	
		428				11091.000		1.1091	
		434				2472.000		0.2472	
Total						22263.0000		2.2263	6.6985

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



0 0.05 0.1 0.2 0.3 0.4 kilometers

Legend

- TYPE LOCATION
- FOREST COORDINATES
- LAND TITLE
- LAND TITLE
- TRANSMISSION LINE

GEOREFENCED COORDINATES POINT OF FOREST

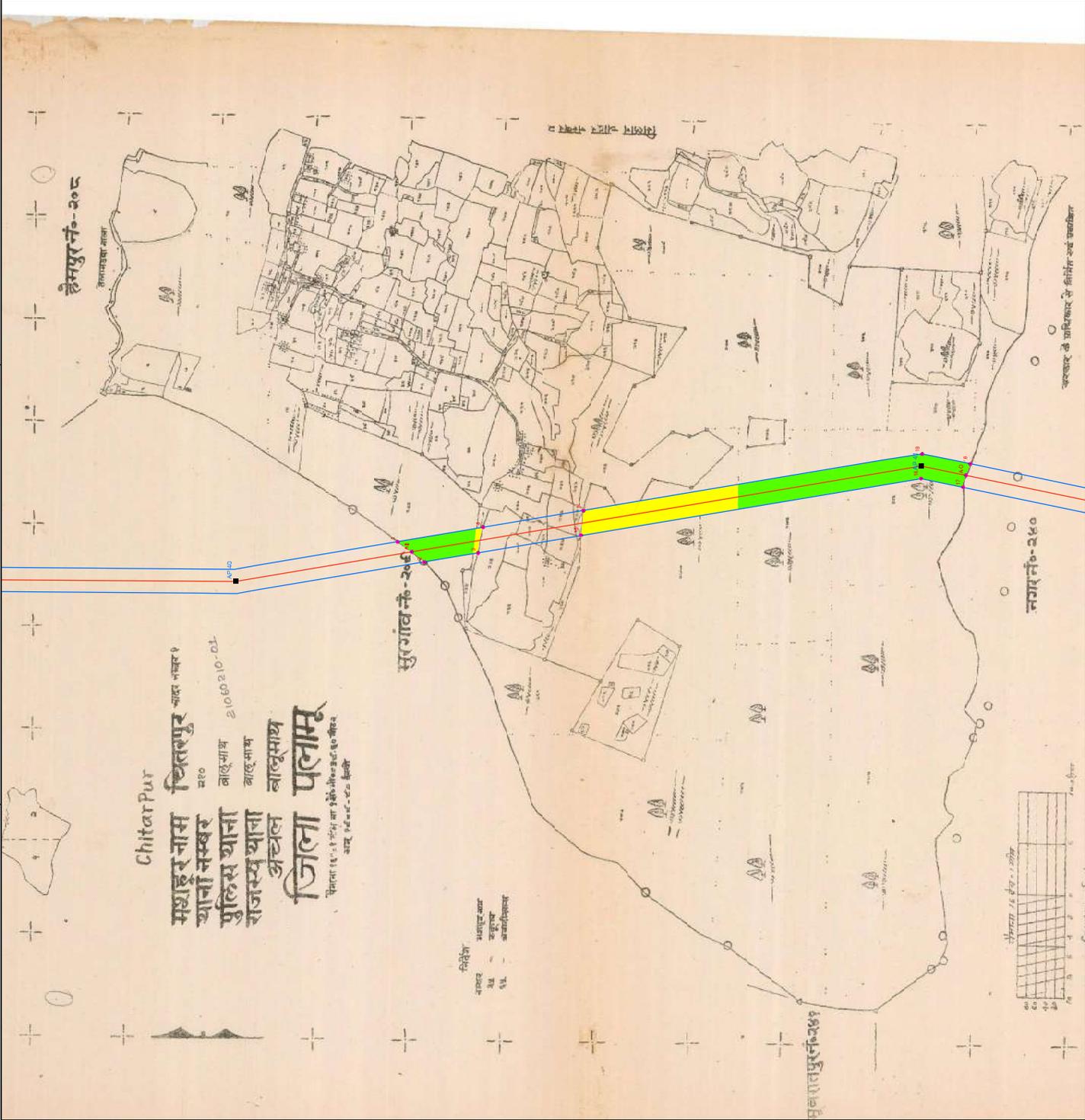
POINT NO.	GEOREFENCED COORDINATES	UTM COORDINATES
A 0	84°53'22.848"E 23°45'20.117"N	4262720625286303 UTM
A 1	84°53'27.341"E 23°45'24.828"N	4262720625286303 UTM
1	84°53'47.235"E 23°45'55.338"N	4262720625286302 UTM
2	84°53'46.548"E 23°45'54.117"N	4262720625286302 UTM
3	84°53'47.164"E 23°45'50.453"N	4262720625286302 UTM
4	84°53'48.317"E 23°45'50.088"N	4262720625286302 UTM
14	84°53'50.055"E 23°45'43.146"N	4262720625286302 UTM
15	84°53'46.237"E 23°45'43.417"N	4262720625286302 UTM
16	84°53'52.257"E 23°45'20.215"N	4262720625286301 UTM
17	84°53'48.317"E 23°45'20.117"N	4262720625286301 UTM
18	84°53'53.917"E 23°45'20.117"N	4262720625286301 UTM

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA	POST	NO.	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
					1	FOREST LAND	2.820	2.820
					2	FOREST LAND	3.000	3.000
					3	FOREST LAND	3.000	3.000
					4	FOREST LAND	3.000	3.000
					5	FOREST LAND	3.000	3.000
					6	FOREST LAND	3.000	3.000
					7	FOREST LAND	3.000	3.000
					8	FOREST LAND	3.000	3.000
					9	FOREST LAND	3.000	3.000
					10	FOREST LAND	3.000	3.000
					11	FOREST LAND	3.000	3.000
					12	FOREST LAND	3.000	3.000
					13	FOREST LAND	3.000	3.000
					14	FOREST LAND	3.000	3.000
					15	FOREST LAND	3.000	3.000
					16	FOREST LAND	3.000	3.000
					17	FOREST LAND	3.000	3.000
					18	FOREST LAND	3.000	3.000
					19	FOREST LAND	3.000	3.000
					20	FOREST LAND	3.000	3.000

DATE: / /

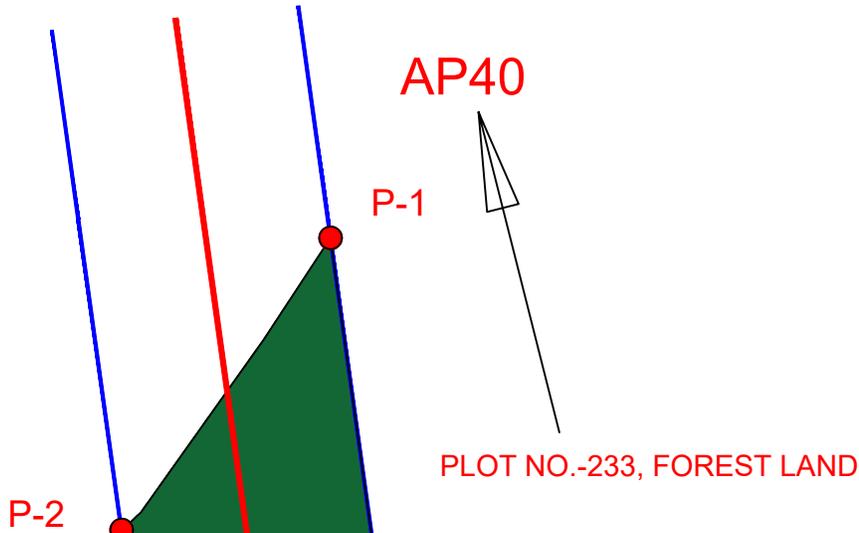
Signature and Stamp of the Surveyor. The stamp is circular and contains the text 'K. K. Kulkarni' and 'Surveyor'.



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - CHITARPUR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272054.00	26330062.00
2	272014.00	2630006.00
3	272030.00	2629893.00
4	272079.00	2629881.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

AP41

P-3

PLOT NO.-234, JJ LAND

P-4

PLOT NO.-233, FOREST LAND

P-1

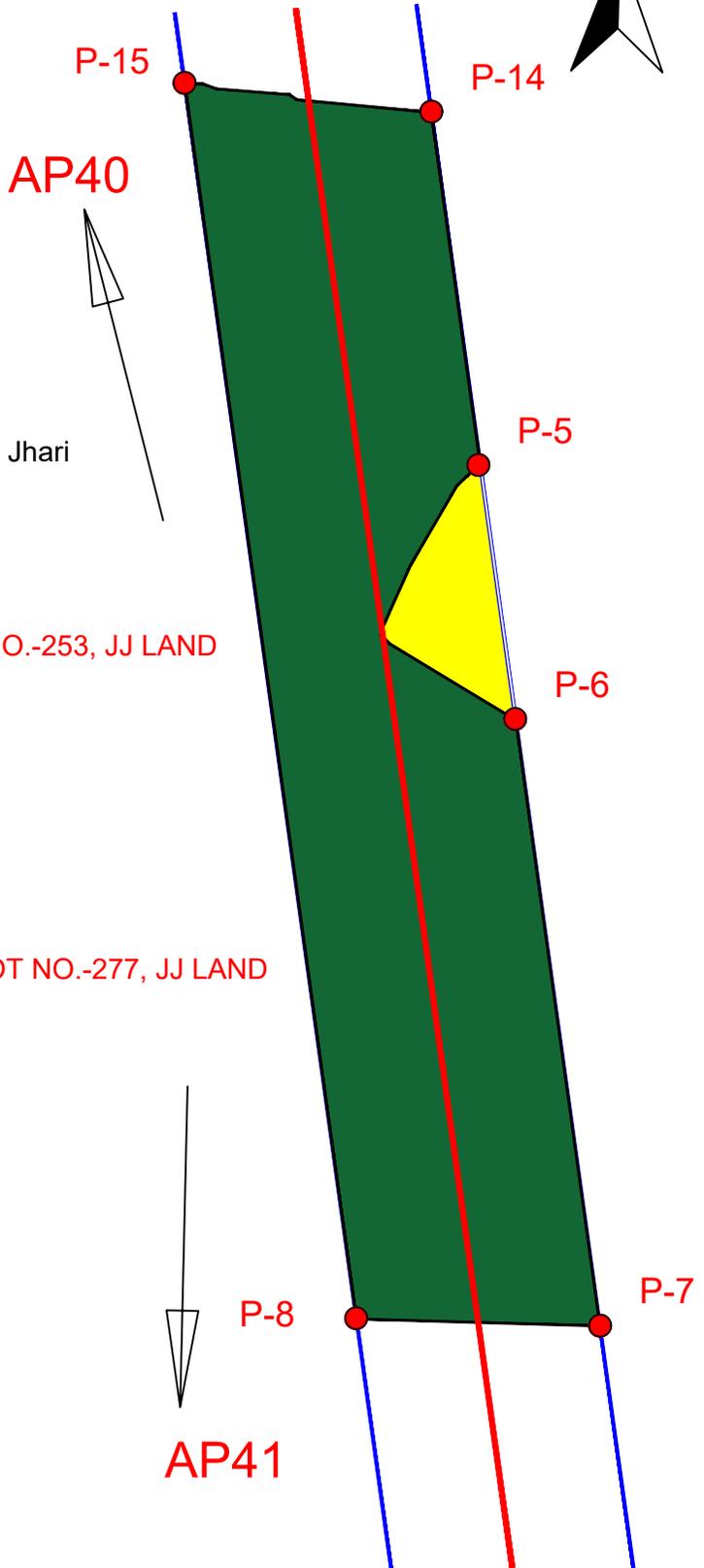
AP40

P-2

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - CHITARPUR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
5	272118.00	2629602.00
6	272126.00	2629553.00
7	272154.00	2629345.00
8	272106.00	2629346.00
14	272108.00	2629670.00
15	272061.00	2629676.00

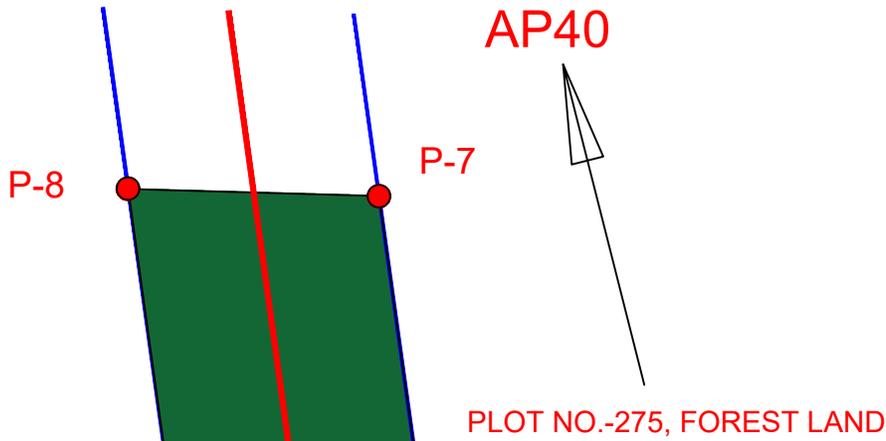
Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

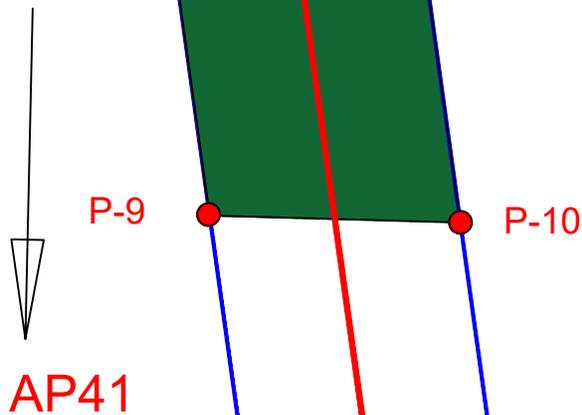
400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - CHITARPUR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
7	272154.00	2629345.00
8	272106.00	2629346.00
9	272134.00	2629149.00
10	272181.00	2629147.00



Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area

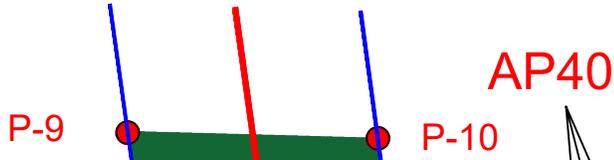


Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - CHITARPUR, DIVISION - LATEHAR, STATE - JHARKHAND

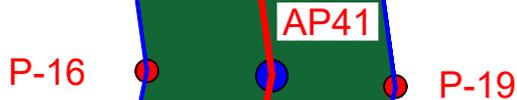


AP40

PLOT NO.-306, FOREST LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

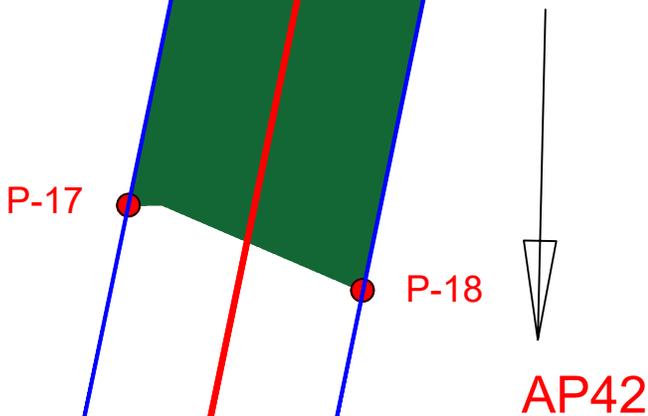
Point No.	Easting	Northing
9	272134.00	2629149.00
10	272181.00	2629147.00
16	272159.00	2628961.00
17	272141.00	2628873.00
18	272186.00	2628857.00
19	272206.00	2628957.00
AP41	272183.48	2628960.30



AP41

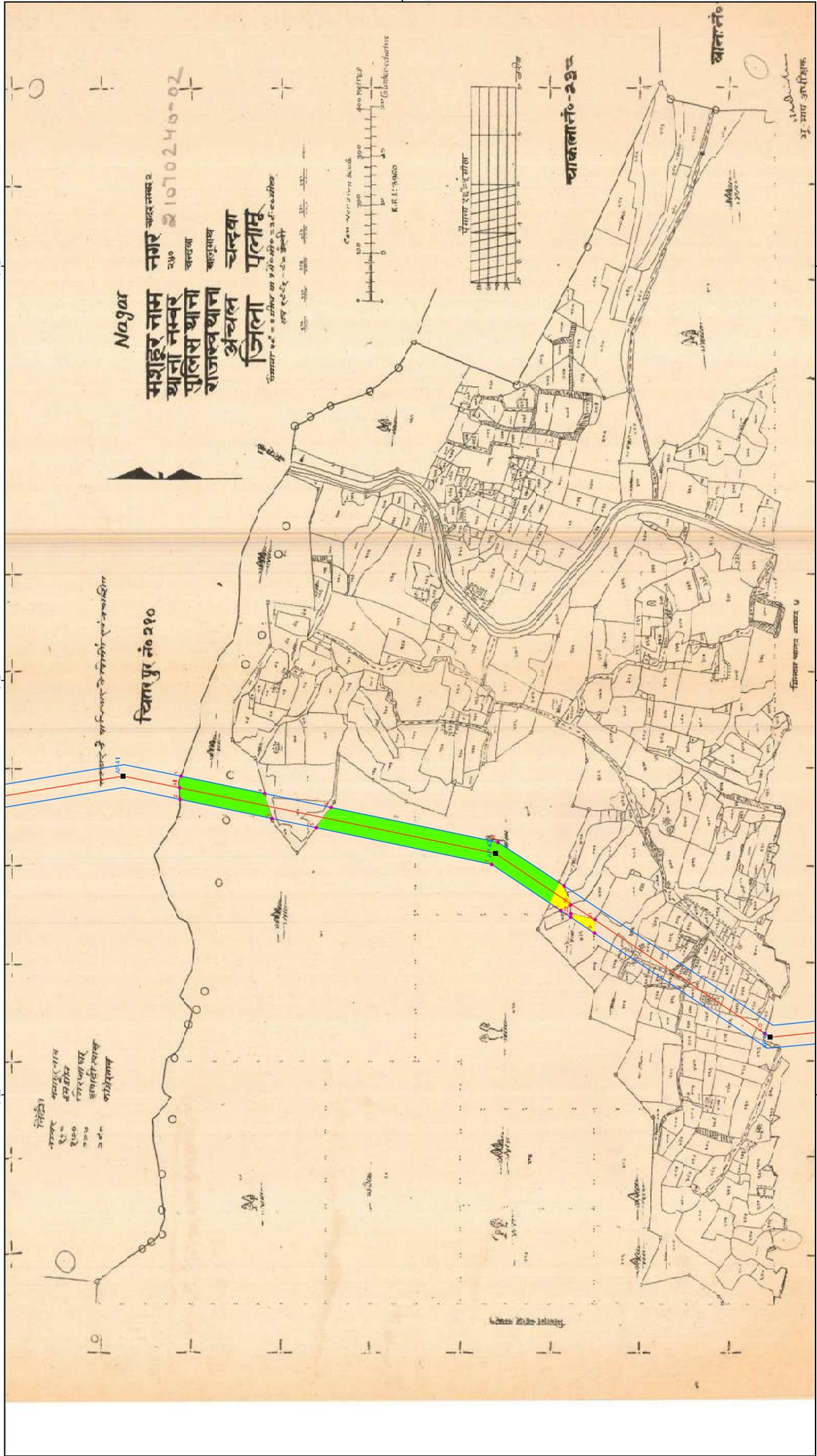
Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari



AP42

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Chitarpur	Balumath	234				536.000	Jungle Jhari	0.0536	0.9876
		253				664.000		0.0664	
		277				14910.000	Protected Forest	1.4910	
		233				6287.000		0.6287	
		275				9371.000		0.9371	
		306				13355.000		1.3355	
Total					45123.0000		4.5123	0.9876	



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L

North Karapura Transco Limited
 0 0.05 0.1 0.2 0.3 0.4 Kilometers
 1:2000

Legend

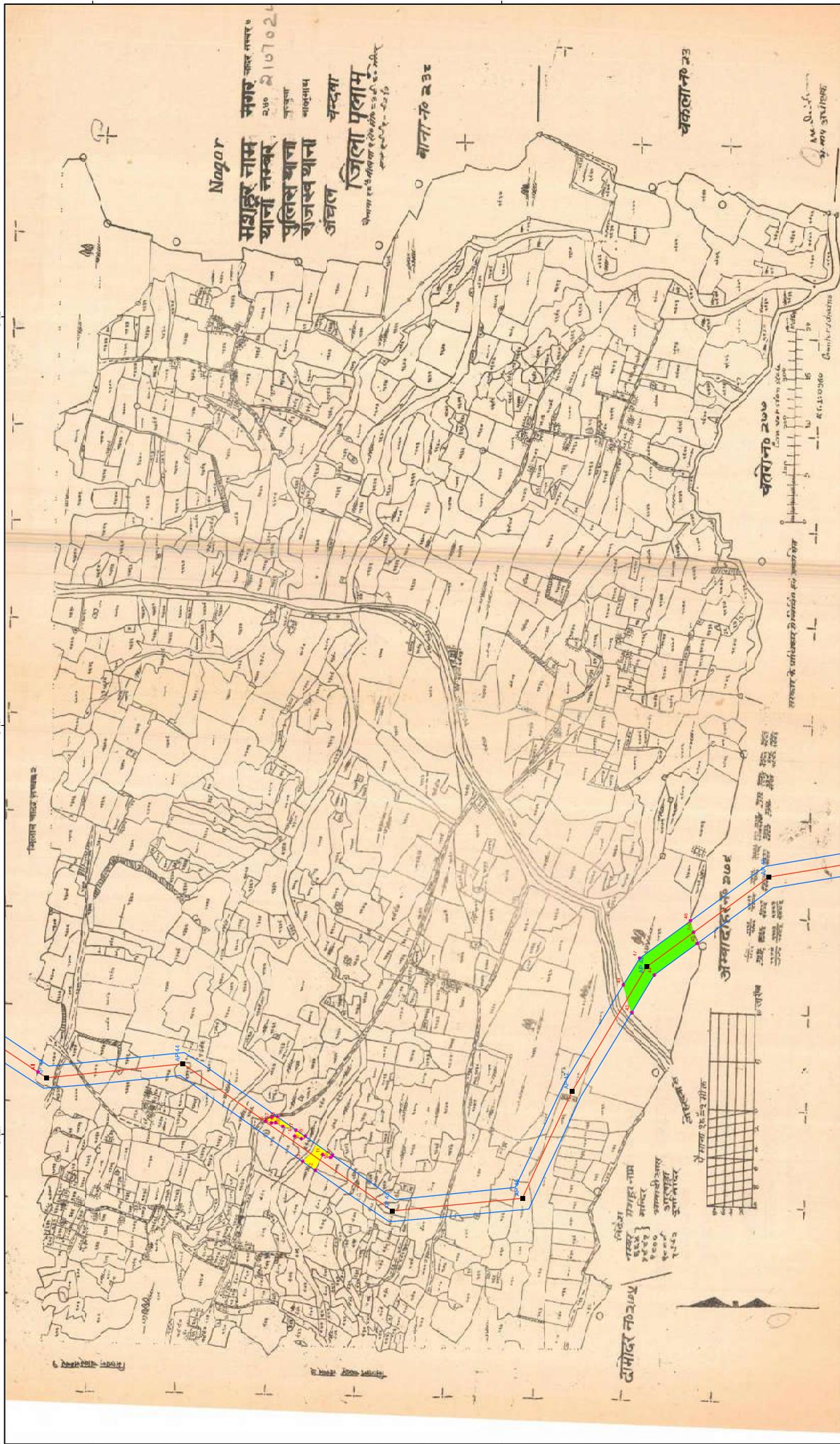
- TOWER LOCATION
- FOREST COORDINATES
- JI LAND
- FOREST AREA
- TRANSMISSION LINE

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO.	BLOCK NO.	TYPE OF LAND	AREA HAS.		TOTAL AREA (HA)
						SI	CHHAT AREA	
						SI	CHHAT AREA	
						SI	CHHAT AREA	

GEOREFERENCED COORDINATES POINT OF FOREST

COORDINATES ID	GEOREFERENCED COORDINATES	NEW COORDINATES
1	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
2	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
3	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
4	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
5	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
6	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
7	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
8	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
9	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
10	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
11	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
12	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
13	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
14	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
15	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
16	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
17	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
18	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
19	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
20	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
21	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
22	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
23	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
24	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041
25	24 42 24.24461 E, 25 04 32.2727 N	504277319326222041



MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



1:5000



Legend

- TOURIST LOCATION
- FOREST COORDINATES
- J LAND
- FOREST AREA
- TRANSMISSION LINE

AREA STATEMENT OF FOREST LAND

SR. NO.	BLOCK	VISSAGE NAME	TOTAL AREA (HA)	FOREST AREA (HA)	NON FOREST AREA (HA)	TOTAL AREA (HA)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
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23
24
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45
46
47
48
49
50

GEOREFERENCED COORDINATES POINT OF FOREST

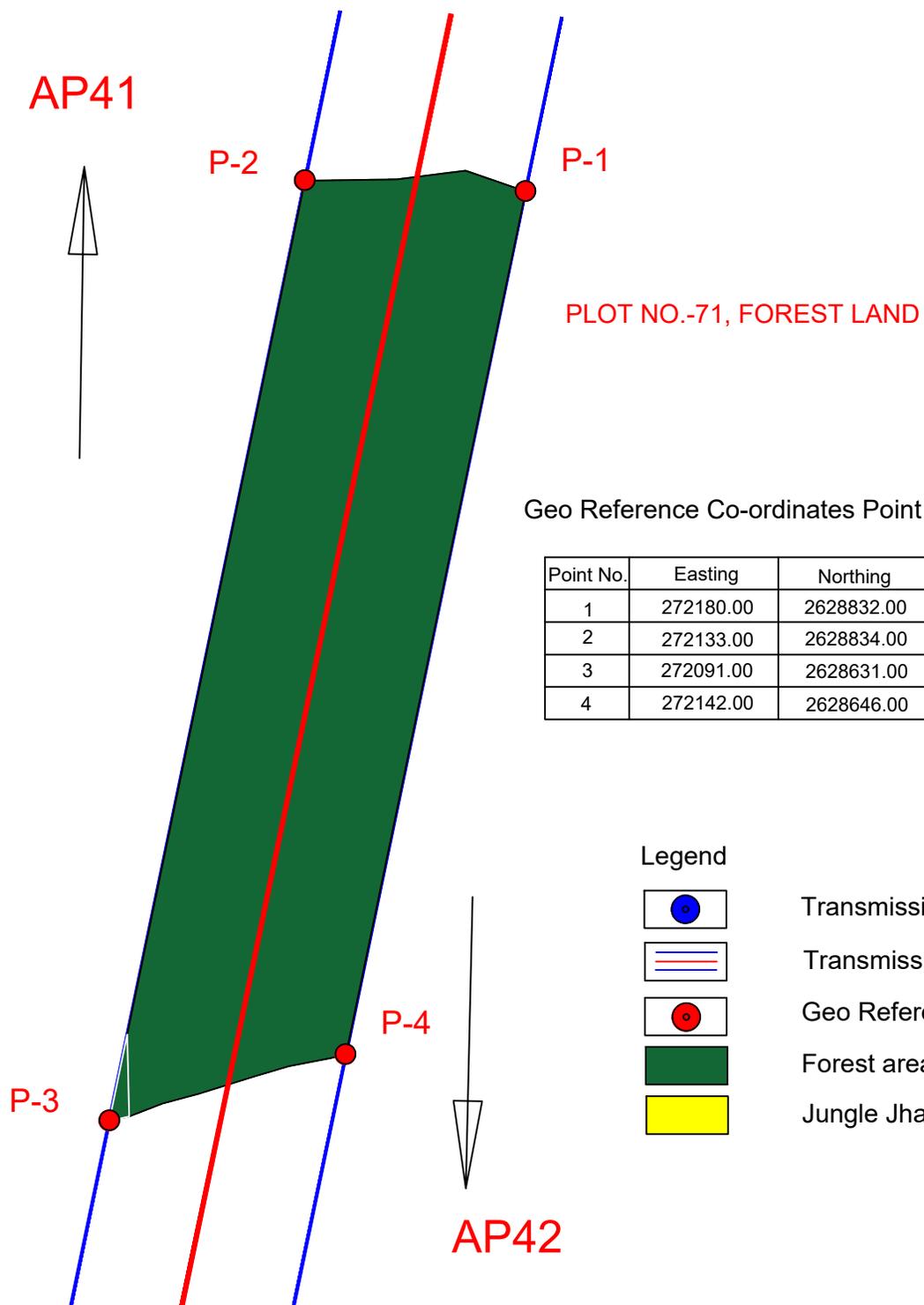
SR. NO.	POINT NO.	X (Easting)	Y (Northing)
1	1	...	...
2	2	...	...
3	3	...	...
4	4	...	...
5	5	...	...
6	6	...	...
7	7	...	...
8	8	...	...
9	9	...	...
10	10	...	...
11	11	...	...
12	12	...	...
13	13	...	...
14	14	...	...
15	15	...	...
16	16	...	...
17	17	...	...
18	18	...	...
19	19	...	...
20	20	...	...
21	21	...	...
22	22	...	...
23	23	...	...
24	24	...	...
25	25	...	...
26	26	...	...
27	27	...	...
28	28	...	...
29	29	...	...
30	30	...	...
31	31	...	...
32	32	...	...
33	33	...	...
34	34	...	...
35	35	...	...
36	36	...	...
37	37	...	...
38	38	...	...
39	39	...	...
40	40	...	...
41	41	...	...
42	42	...	...
43	43	...	...
44	44	...	...
45	45	...	...
46	46	...	...
47	47	...	...
48	48	...	...
49	49	...	...
50	50	...	...



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - NAGAR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272180.00	2628832.00
2	272133.00	2628834.00
3	272091.00	2628631.00
4	272142.00	2628646.00

Legend

-  Transmission Tower
-  Transmission Line corridor
-  Geo Reference Point
-  Forest area
-  Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - NAGAR, DIVISION - LATEHAR, STATE - JHARKHAND



AP41



P-5

P-6

PLOT NO.-429, FOREST LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
5	272070.00	2628532.00
6	272111.00	2628498.00
6A	272090.00	2628391.00
6B	272073.00	2628312.00
6C	272025.00	2628313.00

P-6A

PLOT NO.-70, FOREST LAND

P-6C

P-6B

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

AP42



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - NAGAR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
6B	272073.00	2628312.00
6C	272025.00	2628313.00
7	271989.00	2628143.00
7A	271907.00	2628015.00
7B	271950.00	2627994.00
AP42	272011.94	2628135.04

Legend



Transmission Tower



Transmission Line corridor



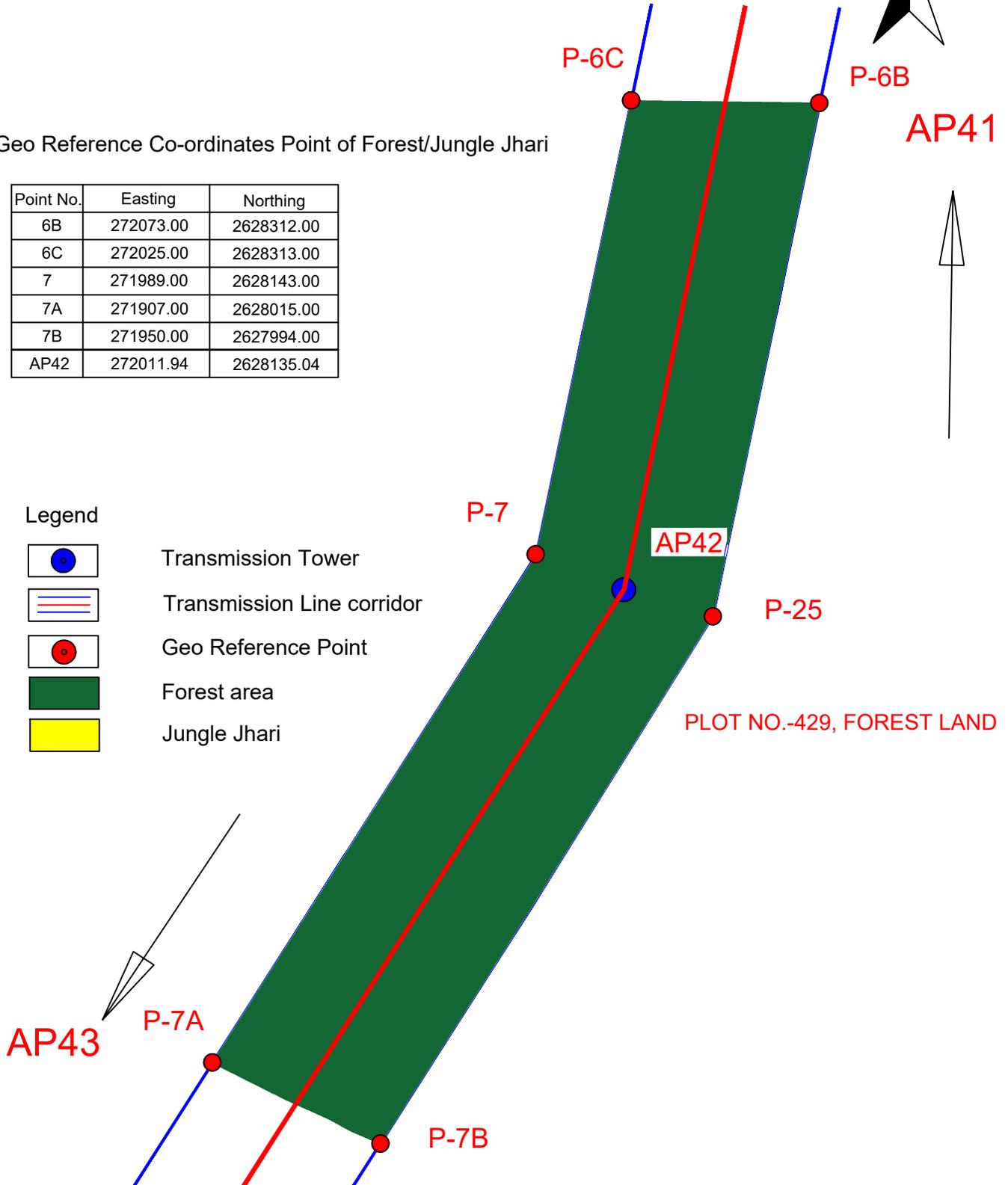
Geo Reference Point



Forest area



Jungle Jhari



PLOT NO.-429, FOREST LAND

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

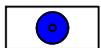
VILLAGE - NAGAR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
7A	271907.00	2628015.00
7B	271950.00	2627994.00
8	271892.00	2627991.00
9	271878.00	2627968.00
10	271878.00	2627916.00
11	271942.00	2627982.00
21	271877.00	2627915.00
22	271885.00	2627968.00
23	271902.00	2627969.00 </td
25	272034.00	2628128.00

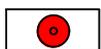
Legend



Transmission Tower



Transmission Line corridor



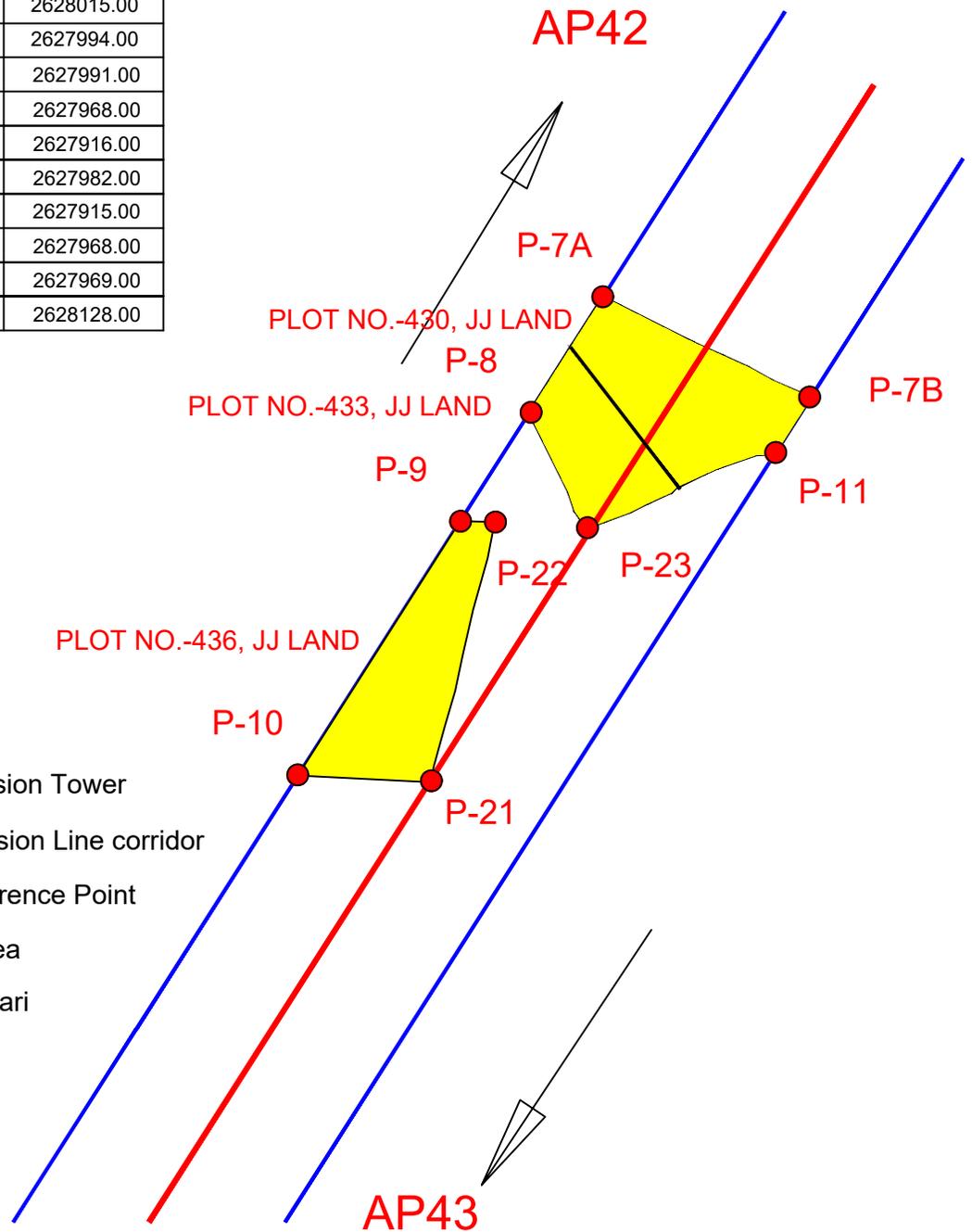
Geo Reference Point



Forest area



Jungle Jhari



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

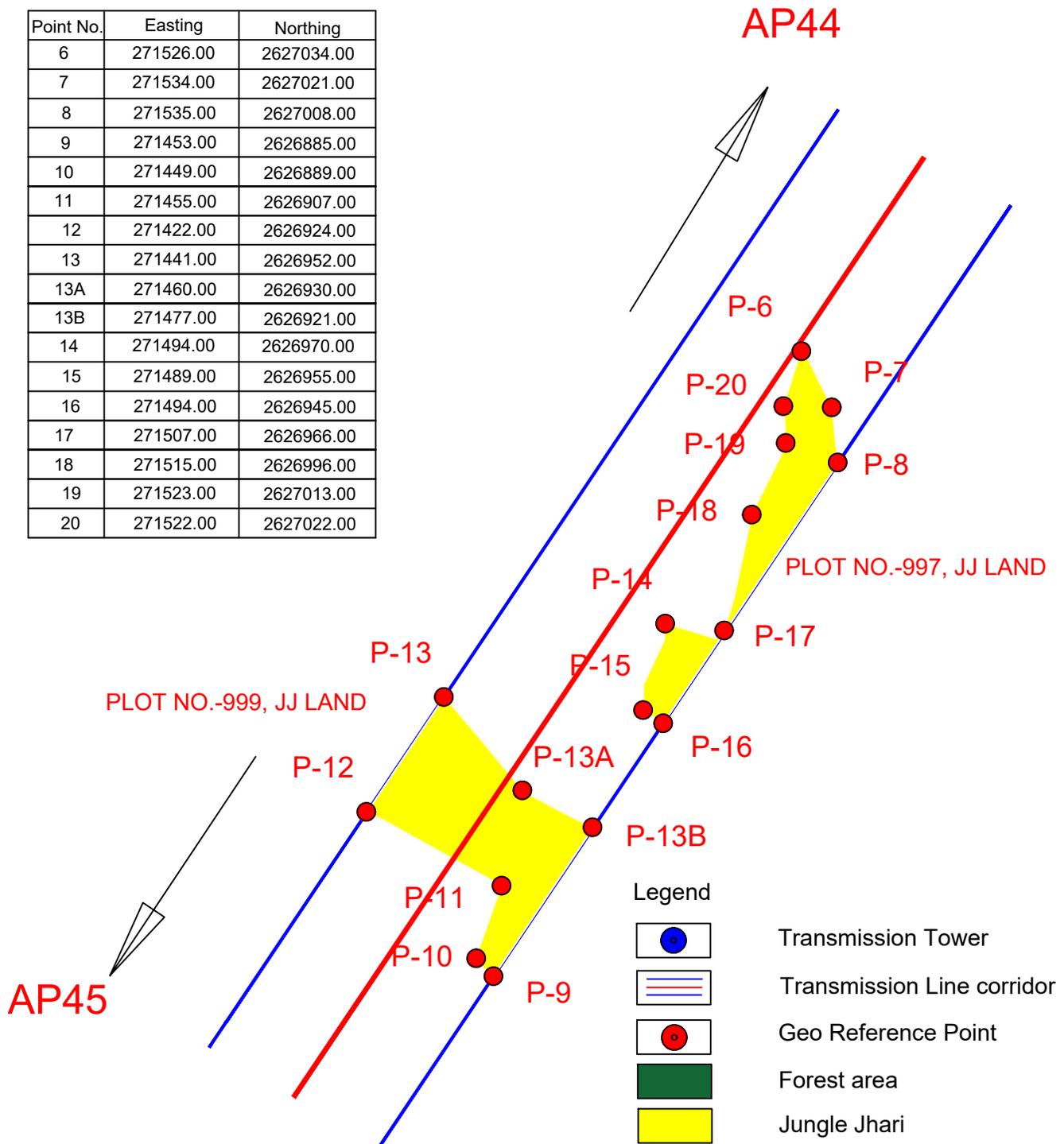
400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - NAGAR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

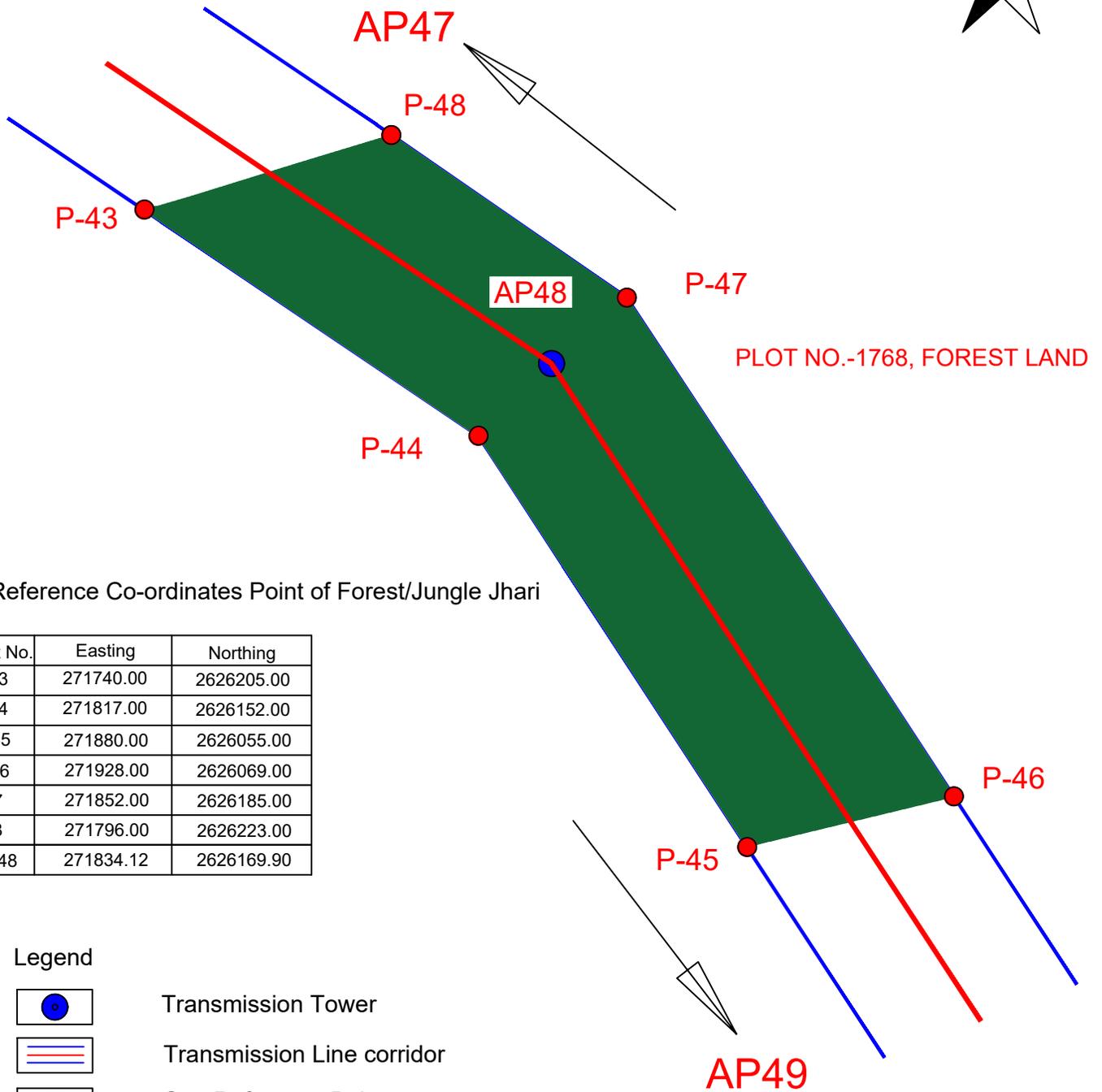
Point No.	Easting	Northing
6	271526.00	2627034.00
7	271534.00	2627021.00
8	271535.00	2627008.00
9	271453.00	2626885.00
10	271449.00	2626889.00
11	271455.00	2626907.00
12	271422.00	2626924.00
13	271441.00	2626952.00
13A	271460.00	2626930.00
13B	271477.00	2626921.00
14	271494.00	2626970.00
15	271489.00	2626955.00
16	271494.00	2626945.00
17	271507.00	2626966.00
18	271515.00	2626996.00
19	271523.00	2627013.00
20	271522.00	2627022.00



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

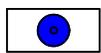
VILLAGE - NAGAR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
43	271740.00	2626205.00
44	271817.00	2626152.00
45	271880.00	2626055.00
46	271928.00	2626069.00
47	271852.00	2626185.00
48	271796.00	2626223.00
AP48	271834.12	2626169.90

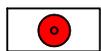
Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

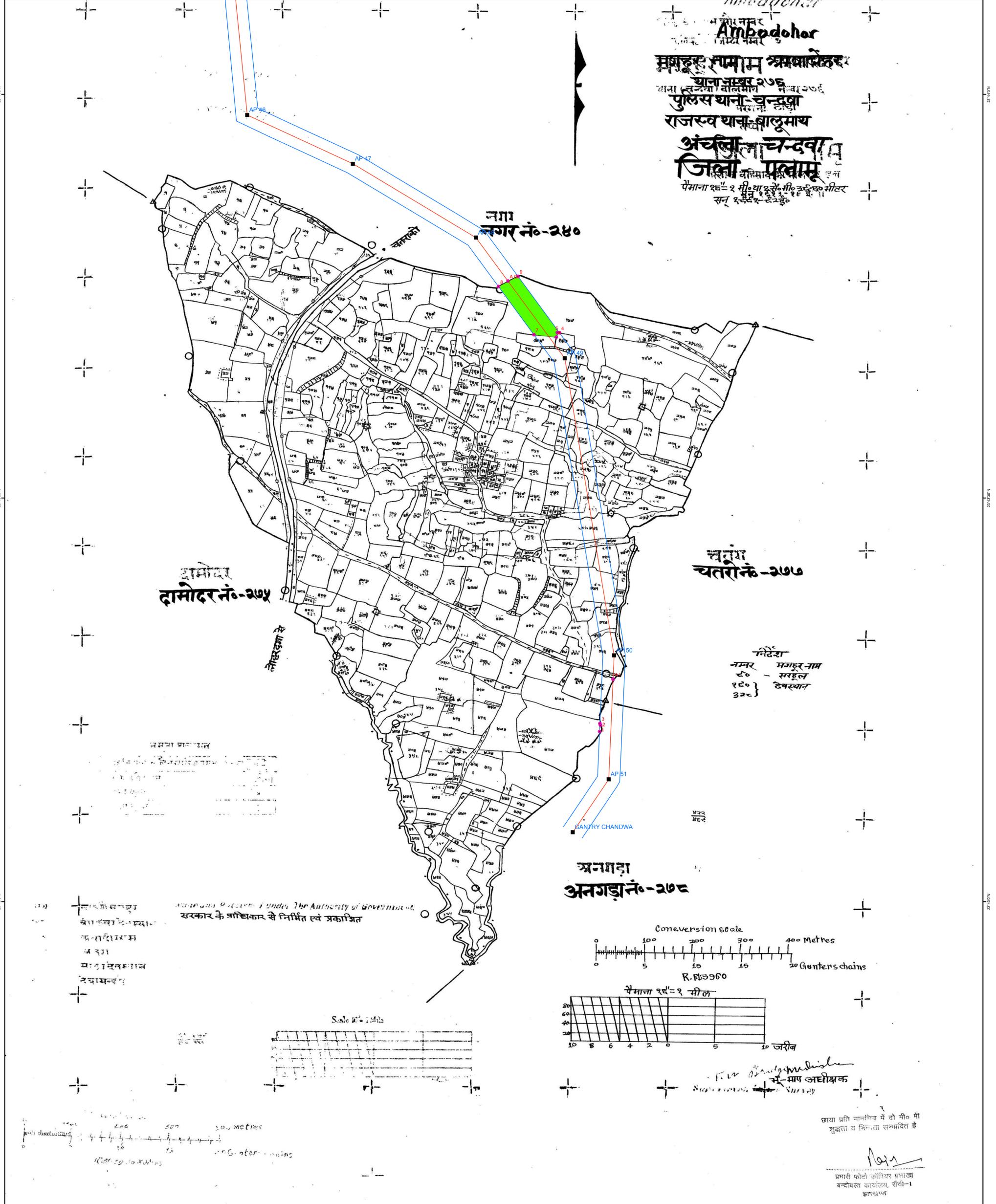
400 KV D/C North Karapura to Chandwa Line

Forest Division : Latehar

District : Latehar

Item wise breakup of forest land

Name of Village	Name of Block	Plot No.	Forest Land Required			Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)				Area in Sq. M
Nagar	Chandwa	430				Jungle Jhari	0.0965	10.0030
		433					0.0524	
		436					0.0930	
		999					0.1364	
		997					0.0803	
		429				Protected Forest	1.6951	
		71					1.0859	
		70					0.8604	
		1768					0.9730	
Total						5.0730	10.0030	



Ambadohar
 मजहूर नाम अम्बोडोहर
 थाना नम्बर २७६
 पुलिस थाना चन्दवा
 राजस्व थाना बालुमाथ
 अंचलिक चन्दवा
 जिला पल्लाम
 पैमाना १ इंच = १ मील
 सन् १९६२-६२

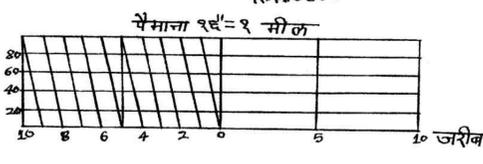
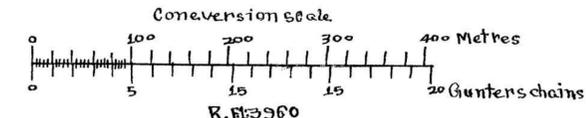
दामोदर नं-२७५
 लोहरडागा से

चन्द्रा
 चतरी नं-२७७

निर्देश
 नम्बर मजहूर नाम
 ६० सरहल
 १६० टिक्कान
 ३२८

अनागादा
 अनागादा नं-२७८

Government of India
 सरकार के अधिकार से निर्मित एवं प्रकाशित



प्र. माप अधिकारी
 Survey

छाया प्रति मानचित्र में दो मी० भी
 शुद्धता व भिन्नता सम्भवित है

प्रमारी फोटो कॉन्सिडर प्रसाखा
 बन्दोबस्त कार्यालय, सीधी-१
 झारखण्ड

GEOREFENCED COORDINATES POINT OF FOREST

COORDINATES ID	GEOGRAPHICAL COORDINATES	UTM COORDINATES
A 0	84°45'52.474"E 23°43'16.513"N	45N2721062625155 UTM
A 1	84°45'44.672"E 23°43'46.121"N	45N2718992626069 UTM
1	84°45'51.476"E 23°43'12.642"N	45N2720762625036 UTM
2	84°45'51.547"E 23°43'13.089"N	45N2720782625050 UTM
3	84°45'51.498"E 23°43'13.23"N	45N2720762625054 UTM
4	84°45'48.5"E 23°43'42.273"N	45N2720062625949 UTM
5	84°45'48.341"E 23°43'42.284"N	45N2720012625949 UTM
6	84°45'48.265"E 23°43'41.953"N	45N2719992625939 UTM
7	84°45'46.602"E 23°43'42.13"N	45N2719522625945 UTM
8	84°45'43.976"E 23°43'45.711"N	45N2718792626057 UTM
9	84°45'45.422"E 23°43'46.47"N	45N2719202626079 UTM

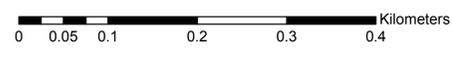
**MAP SHOWING DGPS SURVEYED CO-ORDINATES
 AND BOUNDARY OF FOREST LAND PROPOSED
 TO BE DIVERTED FOR 400 KV D/C
 NK-CHANDWA T/L**

Legend

- TOWER LOCATION
- FOREST COORDINATES
- JJ LAND
- FOREST LAND
- TRANSMISSION LINE

AREA STATEMENT OF FOREST LAND

DISTRICT	BLOCK	VILLAGE NAME	THANA NO	PLOT NO	TYPE OF LAND	AREA (HA)	TOTAL AREA (HA)
LATEHAR	CHANDWA	AMBADOHAR	276	422	JJ LAND	0.0025	0.7036
				159	FOREST LAND	0.7011	

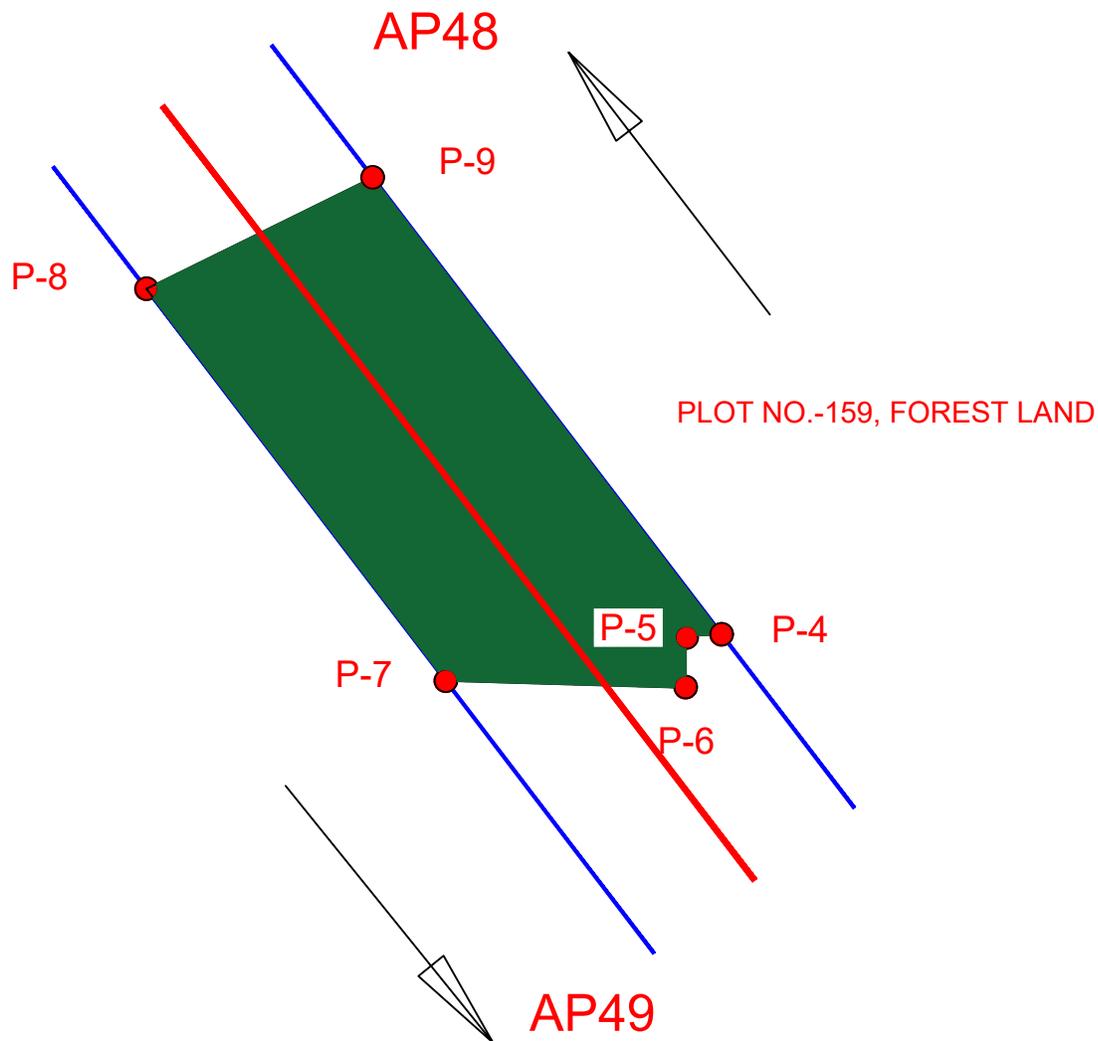


SURVEYED BY	CHECKED BY	SUBMITTED BY

USER AGENCY - NORTH KARANPURA TRANSCO LTD.

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE
 VILLAGE - AMBADOHAR, DIVISION - LATEHAR, STATE - JHARKHAND



Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
4	272006.00	2625949.00
5	272001.00	2625949.00
6	271999.00	2625939.00
7	271952.00	2625945.00
8	271879.00	2626057.00
9	271920.00	2626079.00

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area

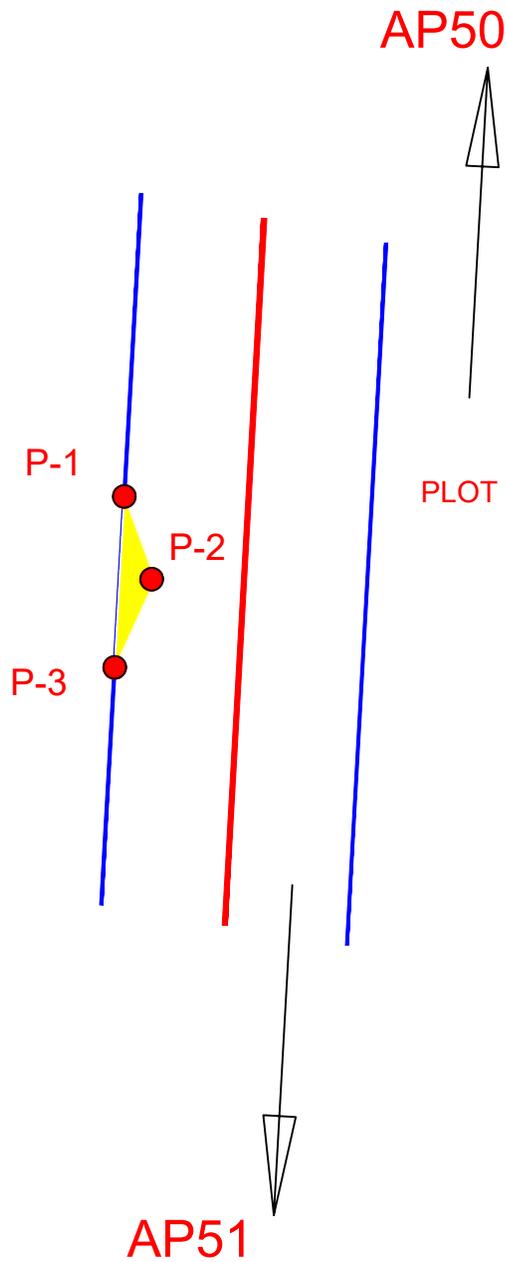


Jungle Jhari

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - AMBADOHAR, DIVISION - LATEHAR, STATE - JHARKHAND

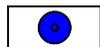


PLOT NO.-422, JJ LAND

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272076.00	2625036.00
2	272078.00	2625050.00
3	272076.00	2625054.00

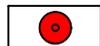
Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Ambadohar	Chandwa	159				7011.000	Protected Forest	0.7011	3.3924
		422				25.000	jungle Jhari	0.0025	
Total						7036.0000		0.7036	3.3924

MAP SHOWING DGPS SURVEYED CO-ORDINATES AND BOUNDARY OF FOREST LAND PROPOSED TO BE DIVERTED FOR 400 KV D/C NK-CHANDWA T/L



चक्रांत नाम
 चक्रांत नं. २०७
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

Chatro
 सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

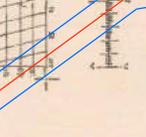
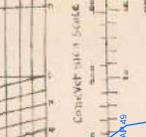
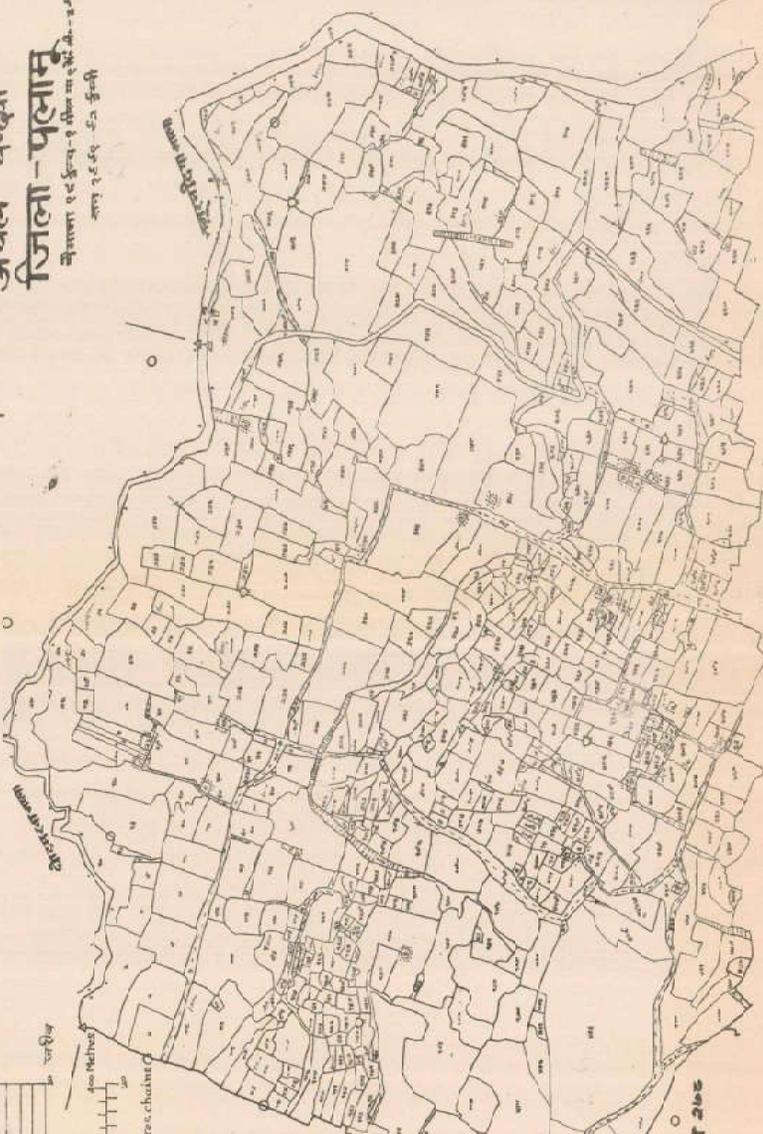
सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र

सहायक संचालक १
 २०७ ०१०२११-०१
 चक्रांत
 पुलिस थाना
 राजस्व थाना
 अचल
 जिला - पुना
 महाराष्ट्र



Legend

- TOWER LOCATION
- IN & OUT COORDINATES
- TRANSMISSION LINE

GEOREFENCED COORDINATES POINT

COORDINATES ID	GEOREFENCED COORDINATES	UTM COORDINATES
A1	18°45'52.415" E 73°43'19.096" N	45N72102625234 UTM
A2	18°45'53.415" E 73°43'15.326" N	45N72102625113 UTM



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

400 KV D/C NORTH KARANPURA - CHANDWA TRANSMISSION LINE

VILLAGE - ANGARA, DIVISION - LATEHAR, STATE - JHARKHAND



AP50



PLOT NO.-2, JJ LAND

P-3

P-2

Geo Reference Co-ordinates Point of Forest/Jungle Jhari

Point No.	Easting	Northing
1	272117.00	2624921.00
2	272124.00	2625061.00
3	272079.00	2625078.00
4	272070.00	2624934.00
5	272059.00	2624917.00
6	272073.00	2624911.00
7	272087.00	2624908.00
8	272104.00	2624899.00
9	272043.00	2624805.00
10	272026.00	2624810.00
11	272020.00	2624803.00
12	271996.00	2624819.00
AP51	272093.32	2624926.63
GNTY.	272015.97	2624806.62

P-4

AP51

P-1

P-5

P-7

P-6

P-8

PLOT NO.-4, JJ LAND

Legend



Transmission Tower



Transmission Line corridor



Geo Reference Point



Forest area



Jungle Jhari

P-12

P-10

P-9

Chandwa Gantry

P-11

400 KV D/C North Karapura to Chandwa Line									
Forest Division : Latehar					District : Latehar				
Item wise breakup of forest land									
Name of Village	Name of Block	Plot No.	Forest Land Required				Legal Status	Total Forest area in Ha.	Total Non Forest Area in Ha.
			Comp. No.	Length(m)	Width(m)	Area in Sq. M			
Angara	Chandwa	4				5524.000	Jungle Jhari	0.5524	0.9462
		2				217.000		0.0217	
Total						5741.0000		0.5741	0.9462