

कार्यालय वन मण्डलाधिकारी कांकेर वन मण्डल कांकेर

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क्रमांक/मा.चि./2021/.....4376

कांकेर, दिनांक 18/06/2021

प्रति

GM (Tech.) Cum Project
National Highways Authority Of India
Office Of Project Director
Project Implementation Unit, Bhamtari
Block - F-5, Shivraj Green, Sihawa Rode
Dhamtari (C.G.) 493773

विषय :- Consultancy Service For Preparation Of DPR For Development Of Economic Corridors, Inter Corridors, Feeders Routes And Coastal Roads To Improve The Efficiency Of Freight Movement In India Under Bharatmala Pariyojana (Lot.3) Odisha & Jharkhand/PKG 2.(Raipur-Vishakhapatnam). Reg-Submission of Updated/Revised DGPS Survey Report For Proposal No:-FP/CG/ROAD/119866/2021

संदर्भ :- आपका पत्र क्रमांक/PD/DMT/Raipur-Visakhapatnam/Forest/DPR/3129/Date 04.06.2021

—00—

विषयांतर्गत संदर्भित पत्र के साथ प्राप्त D.G.P.S सर्वे रिपोर्ट को परिक्षेत्र अधिकारी नरहरपुर/सरोना से सत्यापन के उपरांत इस कार्यालय में प्राप्त हुआ है। उक्त रिपोर्ट में हस्ताक्षर उपरांत इस ज्ञापन के साथ अग्रिम कार्यवाही हेतु प्रेषित है।

वनमंडलाधिकारी
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DGPS Survey report for Forest Land Diversion Proposal

Name of Project: - Development of Economic Corridors, Inter-corridors, feeder routes and Coastal Road to improve the efficiency of freight movement in India (Lot-3/Odisha & Jharkhand/Package-2) Raipur-Vishakhapatnam (Ch. 0.000 - Ch. 124.661 km) (Length 124.661 km) in the State of Chhattisgarh under Bharatmala Pariyojana. (Forest Proposal is for between km 42+844 to Km 124.661)

District:-Kanker

Forest Division: -Kanker

State: - Chhattisgarh

Application Submitted by

The Project Director
Project Implementation Unit,
Block F-5, Shivraj Greens, Sihawa Road
Dhamtari Chhattisgarh
Pin No.- 493773


Divisional Forest Officer
Forest Division Kanker

Lidar / DGPS survey and GIS mapping done by:

M/s. YONGMA Engineering Co. Ltd. JV With Arkitechno Consultants (I) Pvt. Ltd.


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04/06/21
PROJECT DIRECTOR
NHAI, PIU, Dhamtari (C.G.)

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1. Introduction

The Ministry of Road Transport and Highways (MORTH), Government of India has proposed "Bharat Mala Pariyojana" an Umbrella scheme of road development project through National Highways Authority of India (NHAI), National Highway Industrial Development Corporation Ltd (NHIDCL) and State Public Works Departments (PWD) at an estimated cost of ₹ 5,35,000 Crores. This is the second largest highways construction project in the country after NHDP, where in almost 50,000 km of roads are targeted across the country. This project aims to improve connectivity particularly on economic corridors, border areas and to remote areas with an aim of rapid and safe movement of cargo to boost exports. International trade considered as a key aspect in this scheme and North Eastern states have been given special focus.

This project road is a Green Field Alignment passes through four district namely Raipur, Dhamtari, Kanker and Kondagaon in state of Chhattisgarh.

The entire project road passes through green field area which includes plain rolling as well as hilly terrain. From the very beginning point (0+000) in Chhattisgarh section the project road starts near Abhanpur village having plain and rolling terrain for approx. 40 km. At Ch. 40+087 the alignment crosses river Mahanadi where a major bridge is proposed. Moving forward the alignment encounters hilly and forest area till the end of Chhattisgarh section. A total length of 2.65 km tunnel has also been proposed in hill section. In this section most of the land is covered with agricultural and forest area. Approximately 47.88 km length passes through forest area. Proposed alignment has 59 nos. of horizontal curves and 128 nos. of vertical Curves.

2. Proposed location of alignment

Below map (figure -1) show the location of proposed road alignment

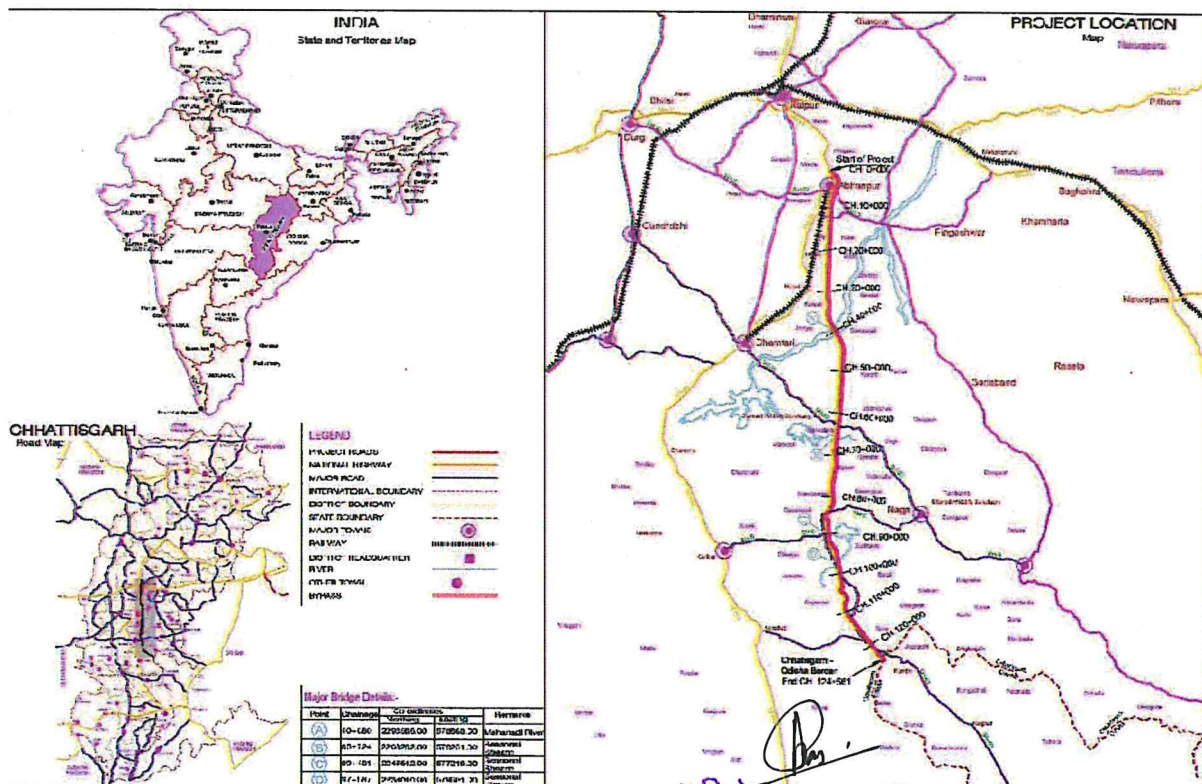


Figure-1 – Project Location Map

3. Work Location

The Proposed Project Road Greenfield Alignment traverses in four district namely Raipur, Dhamtari, Kanker and Kondagaon in state of Chhattisgarh. Project road falls on 6 nos. of Survey of India

toposheet these are 64H/9, 64H/11, 64H/14, 64H/15, 64H/16 and 64G/16. Out of these four districts, in three districts namely, Dhamtari, Kanker and Kondagaon there are Forest land through which project road alignment transverse. Under these Forest Division, project road alignment is located on different sheets of Forest Cover Map which are illustrated in below:-

SL	Forest Cover Map sheet no.	Forest Range	District
1	64H/14/01	North Singpur	Dhamtari
2	64H/14/02		
3	64H/14/03	Keregaon	Dhamtari
4	64H/10/08		
5	64H/10/09		
6	64H/15/01	South Singpur	Dhamtari
7	64H/11/07	Birgudi	Dhamtari
8	64H/15/02		
9	64H/11-C/2	Narharpur	Kanker
10	64H/12/07	Sarona	
11	64H/16/3	Baderajpur Range, Keshkal Forest Division	Konda Gaon
12	64H/16/2		
13	64H/12/8		

4. Objective

As per directives of Ministry of Environment & Forests (MoEF) dated 8th July 2011; all applications for Forest Diversion, under Forest Conservation Act, 1980 must be accompanied with Geo-referenced shape file, showing the boundary of the proposed area (both soft copy and hard copy maps), prepared using Differential GPS (DGPS) and the same should be uploaded to MoEFCC, Government of India portal (<https://parivesh.nic.in/>) along with the online application and related documents.

To meet this requirement, LiDAR survey/DGPS survey has been conducted to establish the project road alignment and locating forest land through which proposed road is proposed.

5. Work Process

- (1) For the purpose of establishing project road alignment and design initially drone survey conducted.
- (2) DGPS Survey for collection of ground coordinates along the proposed road alignment at every 50m interval and/or at every turn/bend along the proposed alignment. The DGPS data is collected all along the project rout/alignment and forest patches.
- (3) Data processing and Interpretation
 - a. Geo-referencing of SOI Toposheet (1:50000), Forest Stock map(1:15000, if available) and satellite imagery
 - b. Creation of Project road alignment and forest boundary vector map using the DGPS/ LiDAR Surveyed data
 - c. Superimposition of Project road alignment and Forest segment/patch on Geo-referenced forest maps and on Toposheet and Satellite imagery.
 - d. Computation of Forest area proposed for diversion.
 - e. Preparation of Geo-referenced Map and SOIToposheet at 1:50000 scale.
 - f. Preparation of DGPS survey report along with soft copy of maps in shapefile format and kml file.
- (3) Printing of report and Geo-referenced maps and Technical compliance.

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6. Technical Approach

a. LiDAR data collection:

Since the project road is a green field alignment drone-based LiDAR data was collected along with 90-degree NADIR view of the proposed route corridor vertical height 150 meter (75 meter on each side along the centreline of the road).

b. GIS Map Creation Using LiDAR/DGPS data:

All the features along the route are captured using LiDAR data and NADIR Imagery to create the GIS Map. A NADIR image is a satellite image or aerial photo of the Earth taken vertically.

c. Demarcation of Proposed Road Alignment using LiDAR data:

Proposed road alignment is demarcated/established based on Engineering suitability/ Feasibility to be executed onground by referring the LiDAR data and NADIR Imagery.

d. Pillar marking using DGPS

After establishing the project road alignment, using DGPS with standard protocol, GPS point taken and at every 50-meter interval demarcation / boundary pillar is marked / erected on forest area with pillar number and GPS coordinate.

e. Site verification/ Authentication of Forest Area by Department.

After erecting/marking the pillar in forest area, the concerned forest Department officers visited the site and authenticated the forest area and revised / updated DGPS Survey Report is prepared.

f. Geo-referencing of Maps:

Geo-referencing of Revenue Village Maps, SOI Toposheets and Forest Maps has been done using GIS software.

SOI Toposheets and Forest Maps have been geo-referenced based on the coordinates provided on the maps whereas Revenue Village Maps have been georeferenced with the help of GCPs collected.

g. Creation of Vector Data for Forest Diversion:

Different Layers such as Polygon of Forest Patch, Centreline of project road Polygons showing Forest Segments/patches are created using the Geo-referenced maps and the information collected from Forest Department. Further at every 50-meter interval (and at sharp curve) both side GPS pillar ID is created which further erected on ground with authentication done by the concerned Forest officials.

h. Generation of Map and Survey Reports for Forest Diversion:

Map is created by overlaying the created vector data for the forest patches on the Geo referenced SOI Toposheets/Forest Maps. The reports are generated for DGPS Points (with Lat/long) placed at the regular intervals of 50meter on the proposed route in the forest area. Forest land statement is also prepared with details of forest compartment, forest division, range, beat, type of forest etc and the area of particular forest patch is calculated as per polygon size through GIS software.


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Photographs of DGPS Survey and Authentication of Forest Land



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M. A. Dill Dhamleri (C.G.)

7. DGPS Survey result

In district Kanker, under Kanker Forest Division a total 39.0869 hectare of forest land are to be diverted for proposed project road. In Kanker forest division project road alignment is located between km 78+160 to 107+440. A total 8.564 Km of project road alignment is located under different patch of Forest Area which is shown Georeferenced Map (attached with report) Forest Area Statement Report, Segment wise Georeferenced Map and Segment wise list of DGPS coordinates is attached in next section of this report

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 परिक्षेत्र अधिकारी नरहरपुर	 D.F.O. Kanker Dn. Kanker

Segment wise GPS Coordinates, Georeferenced Map &
Forest Land Statement


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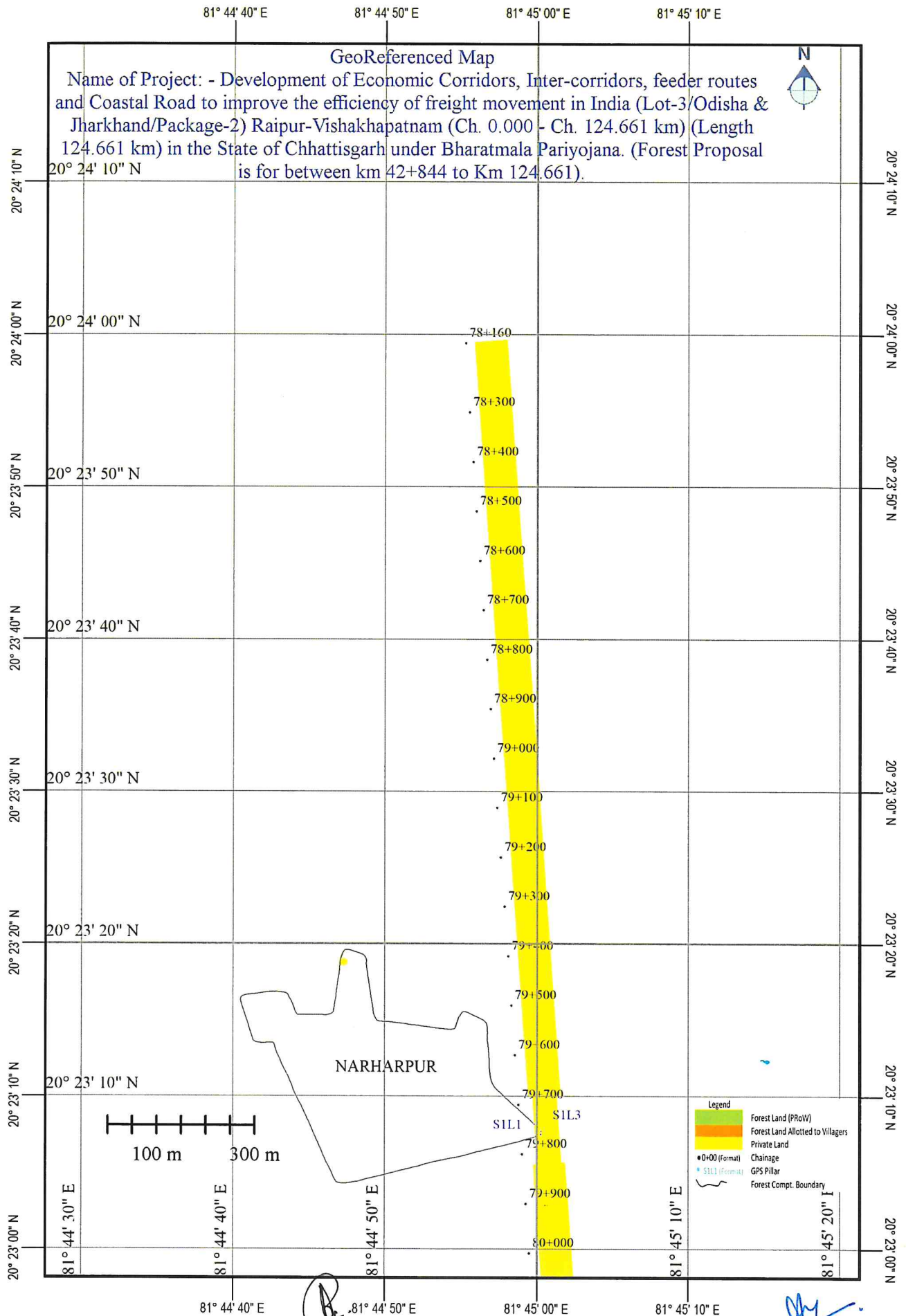

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SEGMENT 1: KANKER								
PRoW Chainage	Pillar ID	Left			PRoW Chainage	Pillar ID	Right	
		Longitude	Latitude				Longitude	Latitude
79+742	S1L1	81°44' 59.8735" E	20°23' 08.1270" N					
79+761	S1L2	81°45' 00.3061" E	20°23' 07.6516" N					
79+766	S1L3	81°45' 00.2871" E	20°23' 07.4803" N					
79+770	S1L4	81°44' 59.9304" E	20°23' 07.3354" N					


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SEGMENT 2: KANKER								
PRow Chainage	Pillar ID	Left			PRow	Pillar	Right	
		Longitude	Latitude		Chainage	ID	Longitude	Latitude
80+015	S2L1A	81°45' 04.1025" E	20°22' 30.0772" N		80+905	S2R0A	81°45' 02.5353" E	20°22' 30.4510" N
80+935	S2L1	81° 45' 04.1232" E	20° 22' 29.4334" N		80+935	S2R1A	81°45' 02.5706" E	20°22' 29.4413" N
80+985	S2L2	81° 45' 04.1534" E	20° 22' 27.8078" N		80+997	S2R1	81° 45' 02.6041" E	20° 22' 27.4409" N
81+035	S2L3	81° 45' 04.1520" E	20° 22' 26.1820" N		81+047	S2R2	81° 45' 02.5953" E	20° 22' 25.8151" N
81+085	S2L4	81° 45' 04.1187" E	20° 22' 24.5564" N		81+097	S2R3	81° 45' 02.5537" E	20° 22' 24.1897" N
81+135	S2L5	81° 45' 04.0540" E	20° 22' 22.9317" N		81+147	S2R4	81° 45' 02.4811" E	20° 22' 22.5652" N
81+185	S2L6	81° 45' 03.9576" E	20° 22' 21.3084" N		81+197	S2R5	81° 45' 02.3754" E	20° 22' 20.9424" N
81+235	S2L7	81° 45' 03.8297" E	20° 22' 19.6870" N		81+247	S2R6	81° 45' 02.2384" E	20° 22' 19.3217" N
81+285	S2L8	81° 45' 03.6695" E	20° 22' 18.0682" N		81+297	S2R7	81° 45' 02.0690" E	20° 22' 17.7037" N
81+335	S2L9	81° 45' 03.4791" E	20° 22' 16.4523" N		81+347	S2R8	81° 45' 01.8675" E	20° 22' 16.0890" N
81+385	S2L10	81° 45' 03.2565" E	20° 22' 14.8400" N		81+397	S2R9	81° 45' 01.6339" E	20° 22' 14.4782" N
81+435	S2L11	81° 45' 03.0026" E	20° 22' 13.2319" N		81+447	S2R10	81° 45' 01.3691" E	20° 22' 12.8716" N
81+485	S2L12	81° 45' 02.7169" E	20° 22' 11.6285" N		81+497	S2R11	81° 45' 01.0717" E	20° 22' 11.2701" N
81+535	S2L13	81° 45' 02.4016" E	20° 22' 10.0301" N		81+547	S2R12	81° 45' 00.7430" E	20° 22' 09.6741" N
81+585	S2L14	81° 45' 02.0539" E	20° 22' 08.4376" N		81+597	S2R13	81° 45' 00.3827" E	20° 22' 08.0841" N
81+635	S2L15	81° 45' 01.6756" E	20° 22' 06.8514" N		81+647	S2R14	81° 44' 59.9918" E	20° 22' 06.5006" N
81+685	S2L16	81° 45' 01.2651" E	20° 22' 05.2723" N		81+697	S2R15	81° 44' 59.5685" E	20° 22' 04.9245" N
81+735	S2L17	81° 45' 00.8272" E	20° 22' 03.6997" N		81+747	S2R16	81° 44' 59.1150" E	20° 22' 03.3559" N
81+785	S2L18	81° 45' 00.3572" E	20° 22' 02.1354" N		81+797	S2R17	81° 44' 58.6294" E	20° 22' 01.7959" N
81+835	S2L19	81° 44' 59.8561" E	20° 22' 00.5798" N		81+847	S2R18	81° 44' 58.1150" E	20° 22' 00.2441" N
81+885	S2L20	81° 44' 59.3256" E	20° 21' 59.0328" N		81+897	S2R19	81° 44' 57.5680" E	20° 21' 58.7022" N
81+935	S2L21	81° 44' 58.7635" E	20° 21' 57.4958" N		81+947	S2R20	81° 44' 56.9904" E	20° 21' 57.1703" N
81+985	S2L22	81° 44' 58.1738" E	20° 21' 55.9680" N		81+997	S2R21	81° 44' 56.3841" E	20° 21' 55.6483" N
82+035	S2L23	81° 44' 57.5533" E	20° 21' 54.4511" N		82+047	S2R22	81° 44' 55.7478" E	20° 21' 54.1373" N
82+085	S2L24	81° 44' 56.9043" E	20° 21' 52.9448" N		82+097	S2R23	81° 44' 55.0804" E	20° 21' 52.6382" N
82+135	S2L25	81° 44' 56.2249" E	20° 21' 51.4505" N		82+147	S2R24	81° 44' 54.3851" E	20° 21' 51.1504" N
82+185	S2L26	81° 44' 55.5178" E	20° 21' 49.9677" N		82+167	S2R24A	81° 44' 54.1135" E	20° 21' 50.5893" N
82+235	S2L27	81° 44' 54.7874" E	20° 21' 48.4950" N		82+170	S2R24B	81° 44' 54.2352" E	20° 21' 50.2850" N

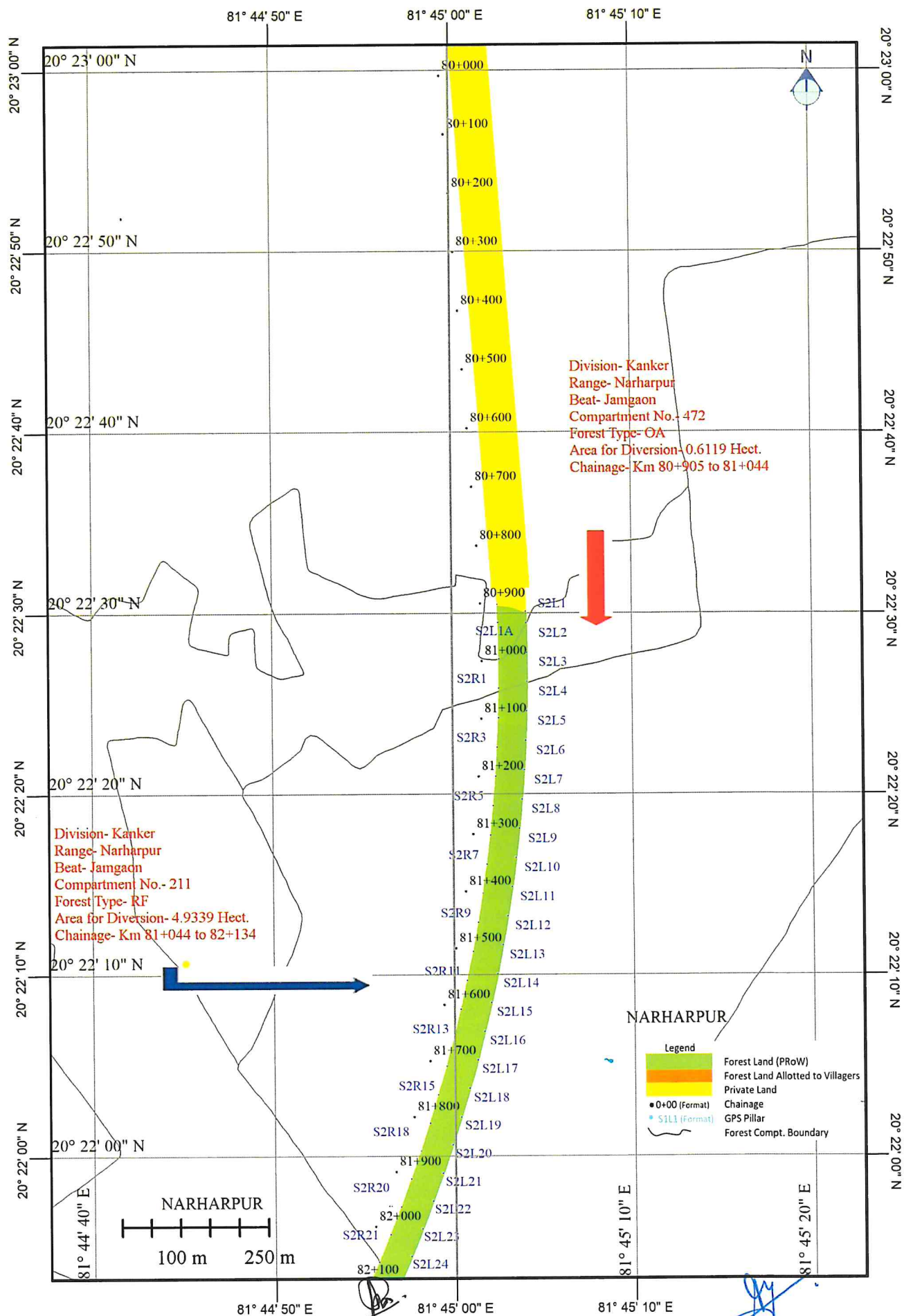
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82+285	S2L28	81° 44' 54.0489" E	20° 21' 47.0258" N		82+167	S2R24C	81° 44' 55.0020" E	20° 21' 50.4329" N
82+335	S2L29	81° 44' 53.3094" E	20° 21' 45.5571" N		82+197	S2R25	81° 44' 53.4116" E	20° 21' 49.1728" N
82+385	S2L30	81° 44' 52.5698" E	20° 21' 44.0884" N		82+247	S2R26	81° 44' 52.9248" E	20° 21' 48.2047" N
82+435	S2L31	81° 44' 51.8302" E	20° 21' 42.6197" N		82+297	S2R27	81° 44' 52.1853" E	20° 21' 46.7360" N
82+485	S2L32	81° 44' 51.0907" E	20° 21' 41.1510" N		82+347	S2R28	81° 44' 51.4457" E	20° 21' 45.2673" N
82+535	S2L33	81° 44' 50.3511" E	20° 21' 39.6823" N		82+397	S2R29	81° 44' 50.7061" E	20° 21' 43.7986" N
82+570	S2L34	81° 44' 50.1002" E	20° 21' 39.1841" N		82+447	S2R30	81° 44' 49.9666" E	20° 21' 42.3299" N
					82+497	S2R31	81° 44' 49.2270" E	20° 21' 40.8612" N
					82+517	S2R31A	81° 44' 48.9090" E	20° 21' 40.2296" N
					82+547	S2R32	81° 44' 48.5334" E	20° 21' 39.4838" N


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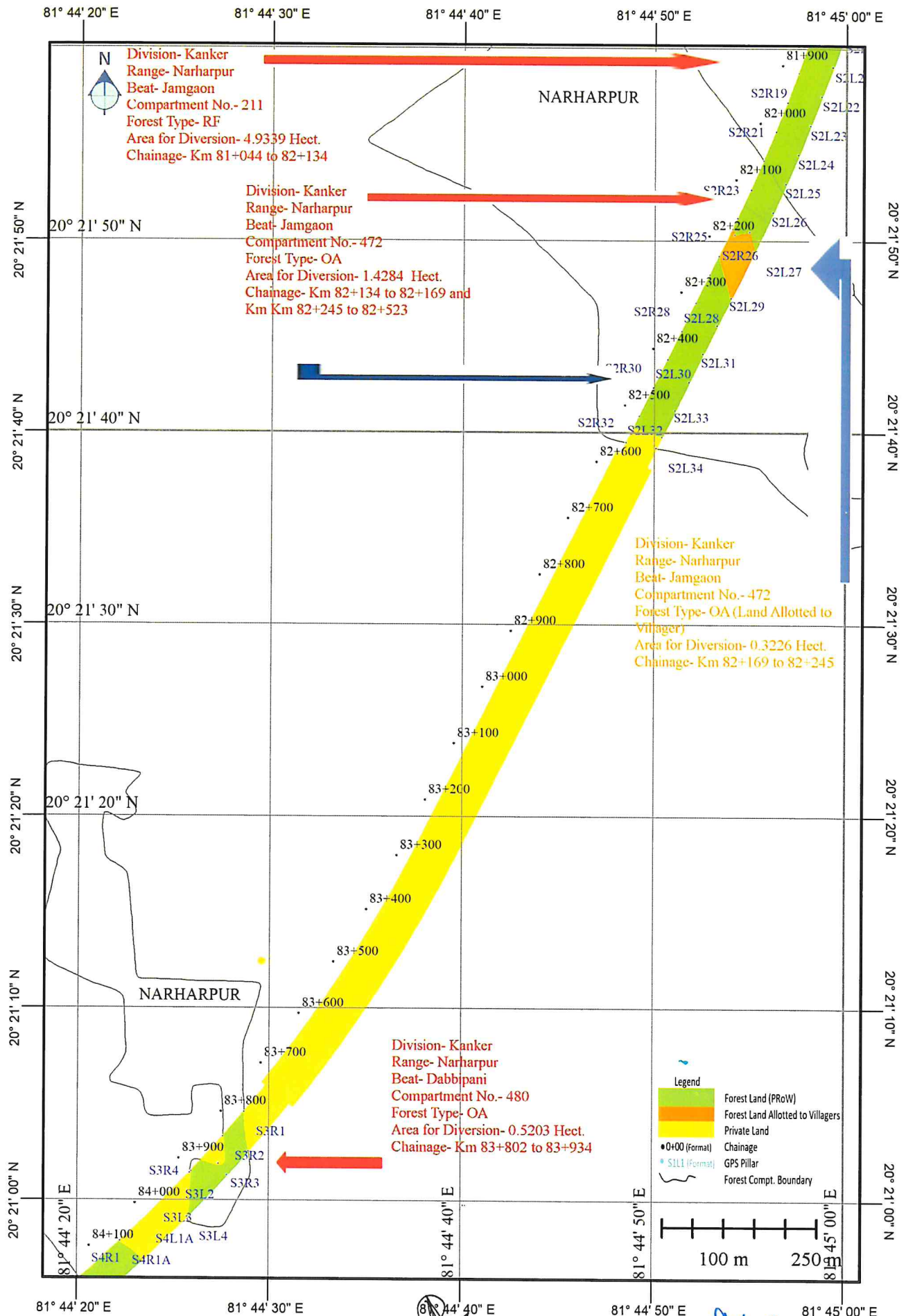
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SEGMENT 3: KANKER								
PRoW	Pillar	Left			PRoW	Pillar	Right	
Chainage	ID	Longitude	Latitude		Chainage	ID	Longitude	Latitude
83+875	S3L1	81° 44' 28.9458" E	20° 21' 02.5161" N		83+798	S3R1	81° 44' 28.7143" E	20° 21' 04.5508" N
83+925	S3L2	81° 44' 27.8341" E	20° 21' 01.2735" N		83+848	S3R2	81° 44' 27.6171" E	20° 21' 03.2968" N
83+975	S3L3	81° 44' 26.6946" E	20° 21' 00.0535" N		83+898	S3R3	81° 44' 27.3885" E	20° 21' 01.8500" N
84+025	S3L4	81° 44' 25.7734" E	20° 20' 59.1048" N		83+925	S3R4	81° 44' 25.9749" E	20° 21' 01.4903" N
					83+930	S3R5	81° 44' 25.8906" E	20° 21' 01.4007" N


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SEGMENT 4: KANKER								
PRoW Chainage	Pillar ID	Left			PRoW Chainage	Pillar ID	Right	
		Longitude	Latitude				Longitude	Latitude
84+090	S4L1A	81°44' 23.5139" E	20°20' 56.9086" N		84+090	S4R1A	81°44' 22.3002" E	20°20' 57.8344" N
84+186	S4L1	81° 44' 21.1080" E	20° 20' 54.7537" N		84+175	S4R1	81° 44' 20.1578" E	20° 20' 55.9171" N
84+236	S4L2	81° 44' 19.8210" E	20° 20' 53.6720" N		84+225	S4R2	81° 44' 18.8726" E	20° 20' 54.8336" N
84+286	S4L3	81° 44' 18.5098" E	20° 20' 52.6165" N		84+275	S4R3	81° 44' 17.5626" E	20° 20' 53.7768" N
84+336	S4L4	81° 44' 17.1751" E	20° 20' 51.5876" N		84+325	S4R4	81° 44' 16.2282" E	20° 20' 52.7474" N
84+386	S4L5	81° 44' 15.8223" E	20° 20' 50.5797" N		84+360	S4R5	81° 44' 15.2655" E	20° 20' 52.0272" N
84+420	S4L6	81° 44' 14.9072" E	20° 20' 49.9064" N					


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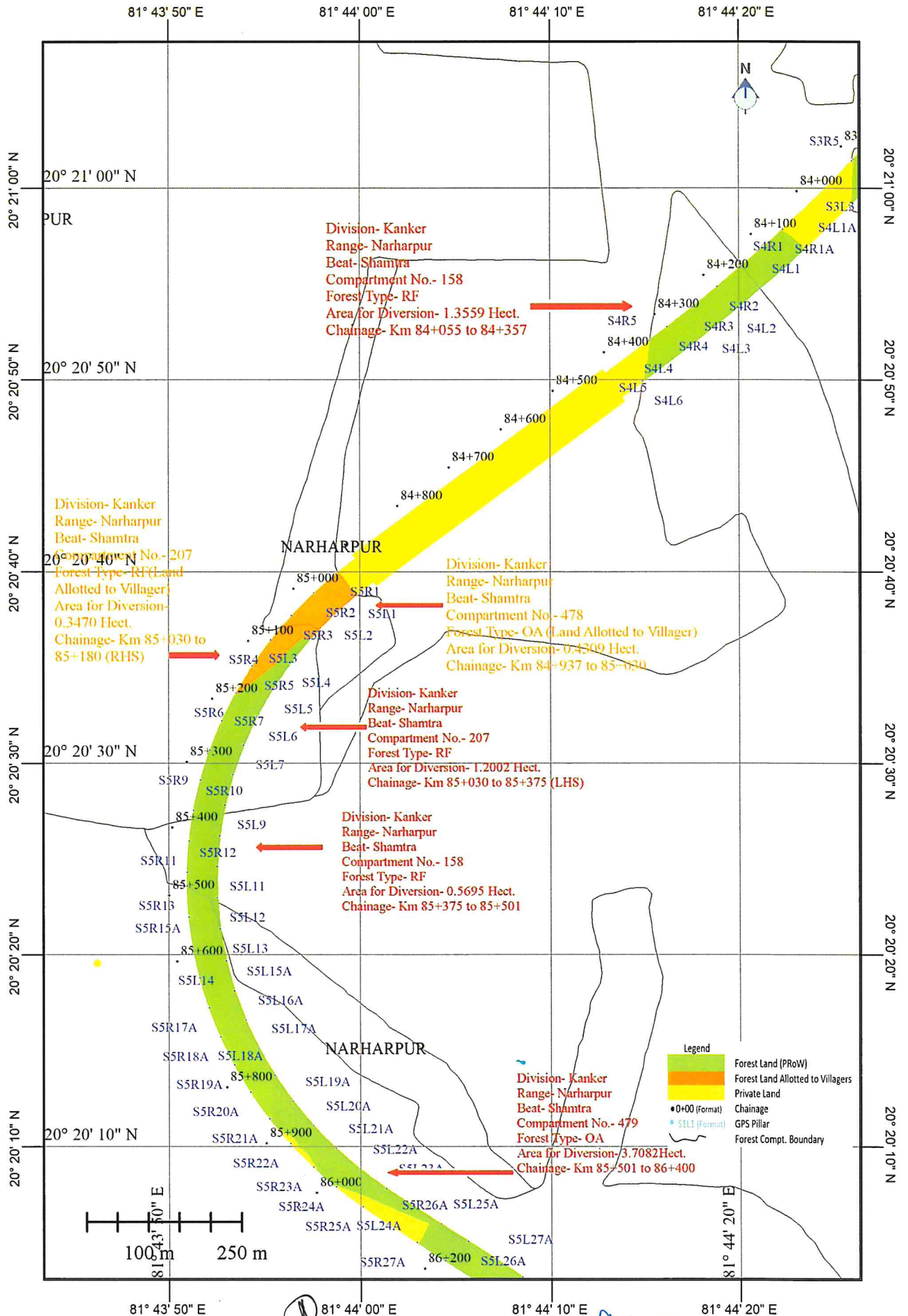

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SEGMENT 5: KANKER								
PRoW Chainage	Pillar	Left			PRoW	Pillar ID	Right	
	ID	Longitude	Latitude		Chainage		Longitude	Latitude
85+507	S5L1	81° 43' 59.8307" E	20° 20' 38.7878" N		84+971	S5R1	81° 43' 58.8871" E	20° 20' 39.9517" N
85+057	S5L2	81° 43' 58.5658" E	20° 20' 37.6839" N		85+007	S5R2	81° 43' 57.6146" E	20° 20' 38.8554" N
85+094	S5L3	81° 43' 57.4035" E	20° 20' 36.4839" N		85+057	S5R3	81° 43' 56.4353" E	20° 20' 37.6702" N
85+145	S5L4	81° 43' 56.3477" E	20° 20' 35.1993" N		85+097	S5R4	81° 43' 55.3559" E	20° 20' 36.4030" N
85+195	S5L5	81° 43' 55.4101" E	20° 20' 33.8355" N		85+147	S5R5	81° 43' 54.3841" E	20° 20' 35.0606" N
85+230	S5L6	81° 43' 54.5947" E	20° 20' 32.4036" N		85+197	S5R6	81° 43' 53.5247" E	20° 20' 33.6517" N
85+280	S5L7	81° 43' 53.9096" E	20° 20' 30.9122" N		85+239	S5R7	81° 43' 52.7827" E	20° 20' 32.1845" N
85+316	S5L8	81° 43' 53.3561" E	20° 20' 29.3729" N		85+289	S5R8	81° 43' 52.1633" E	20° 20' 30.6677" N
85+366	S5L9	81° 43' 52.9395" E	20° 20' 27.7957" N		85+328	S5R9	81° 43' 51.6691" E	20° 20' 29.1105" N
85+404	S5L10	81° 43' 52.6635" E	20° 20' 26.1914" N		85+378	S5R10	81° 43' 51.3055" E	20° 20' 27.5216" N
85+454	S5L11	81° 43' 52.5319" E	20° 20' 24.5707" N		85+418	S5R11	81° 43' 51.0711" E	20° 20' 25.9113" N
85+504	S5L12	81° 43' 52.5388" E	20° 20' 22.9453" N		85+468	S5R12	81° 43' 50.9712" E	20° 20' 24.2886" N
85+554	S5L13	81° 43' 52.6898" E	20° 20' 21.3261" N		85+491	S5R13	81° 43' 50.9666" E	20° 20' 23.5563" N
85+555	S5L14	81° 43' 52.6959" E	20° 20' 21.2782" N		85+560	S5R14A	81° 43' 51.0575" E	20° 20' 21.9391" N
85+640	S5L15A	81° 43' 53.4347" E	20° 20' 18.0965" N		85+610	S5R15A	81° 43' 51.2791" E	20° 20' 20.3370" N
85+690	S5L16A	81° 43' 54.0085" E	20° 20' 16.5660" N		85+660	S5R16A	81° 43' 51.6296" E	20° 20' 18.7619" N
85+740	S5L17A	81° 43' 54.7097" E	20° 20' 15.0964" N		85+710	S5R17A	81° 43' 52.1097" E	20° 20' 17.1997" N
85+790	S5L18A	81° 43' 55.5329" E	20° 20' 13.6882" N		85+760	S5R18A	81° 43' 52.7167" E	20° 20' 15.6812" N
85+840	S5L19A	81° 43' 56.4959" E	20° 20' 12.3282" N		85+810	S5R19A	81° 43' 53.4331" E	20° 20' 14.2342" N
85+890	S5L20A	81° 43' 57.5668" E	20° 20' 11.0523" N		85+860	S5R20A	81° 43' 54.2762" E	20° 20' 12.8231" N
85+940	S5L21A	81° 43' 58.7395" E	20° 20' 09.8732" N		85+910	S5R21A	81° 43' 55.2692" E	20° 20' 11.4290" N
85+990	S5L22A	81° 44' 00.0118" E	20° 20' 08.7900" N		85+960	S5R22A	81° 43' 56.3644" E	20° 20' 10.1267" N
86+040	S5L23A	81° 44' 01.3846" E	20° 20' 07.7959" N		86+010	S5R23A	81° 43' 57.5594" E	20° 20' 08.9155" N
86+090	S5L24A	81° 44' 02.7928" E	20° 20' 06.8777" N		86+060	S5R24A	81° 43' 58.7536" E	20° 20' 07.8756" N
86+140	S5L25A	81° 44' 04.2395" E	20° 20' 05.9497" N		86+110	S5R25A	81° 44' 00.1361" E	20° 20' 06.8423" N
86+190	S5L26A	81° 44' 05.6575" E	20° 20' 05.0402" N		86+160	S5R26A	81° 44' 01.5521" E	20° 20' 05.9041" N
86+240	S5L27A	81° 44' 07.0943" E	20° 20' 04.1175" N		86+210	S5R27A	81° 44' 02.9958" E	20° 20' 04.9779" N
86+290	S5L28A	81° 44' 08.4937" E	20° 20' 03.1766" N		86+260	S5R28A	81° 44' 04.4702" E	20° 20' 04.0321" N
86+340	S5L29A	81° 44' 09.6202" E	20° 20' 02.3428" N		86+310	S5R29A	81° 44' 05.9224" E	20° 20' 03.1006" N
86+390	S5L30A	81° 44' 10.7399" E	20° 20' 01.4323" N		86+360	S5R30A	81° 44' 07.3712" E	20° 20' 02.1404" N

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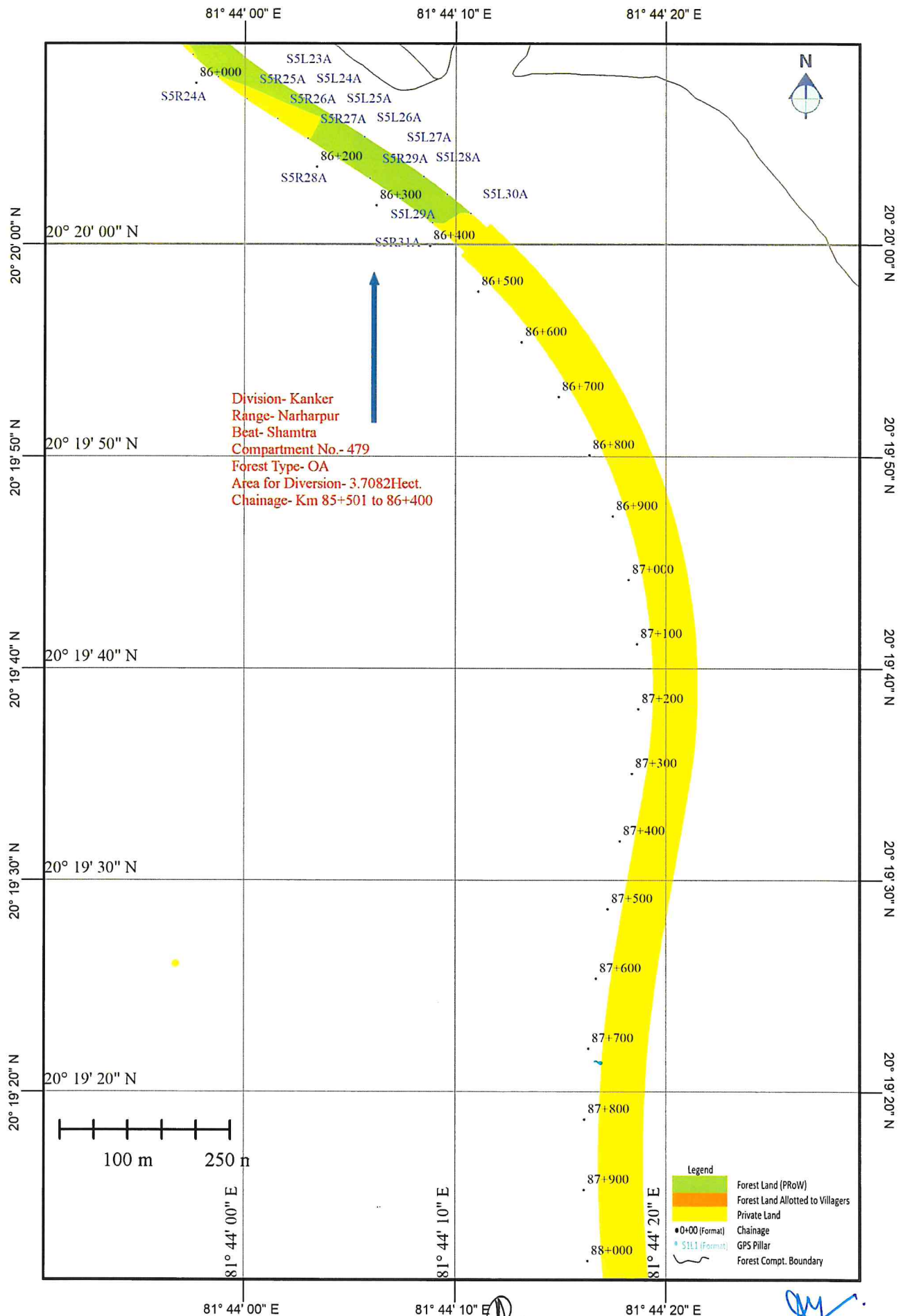
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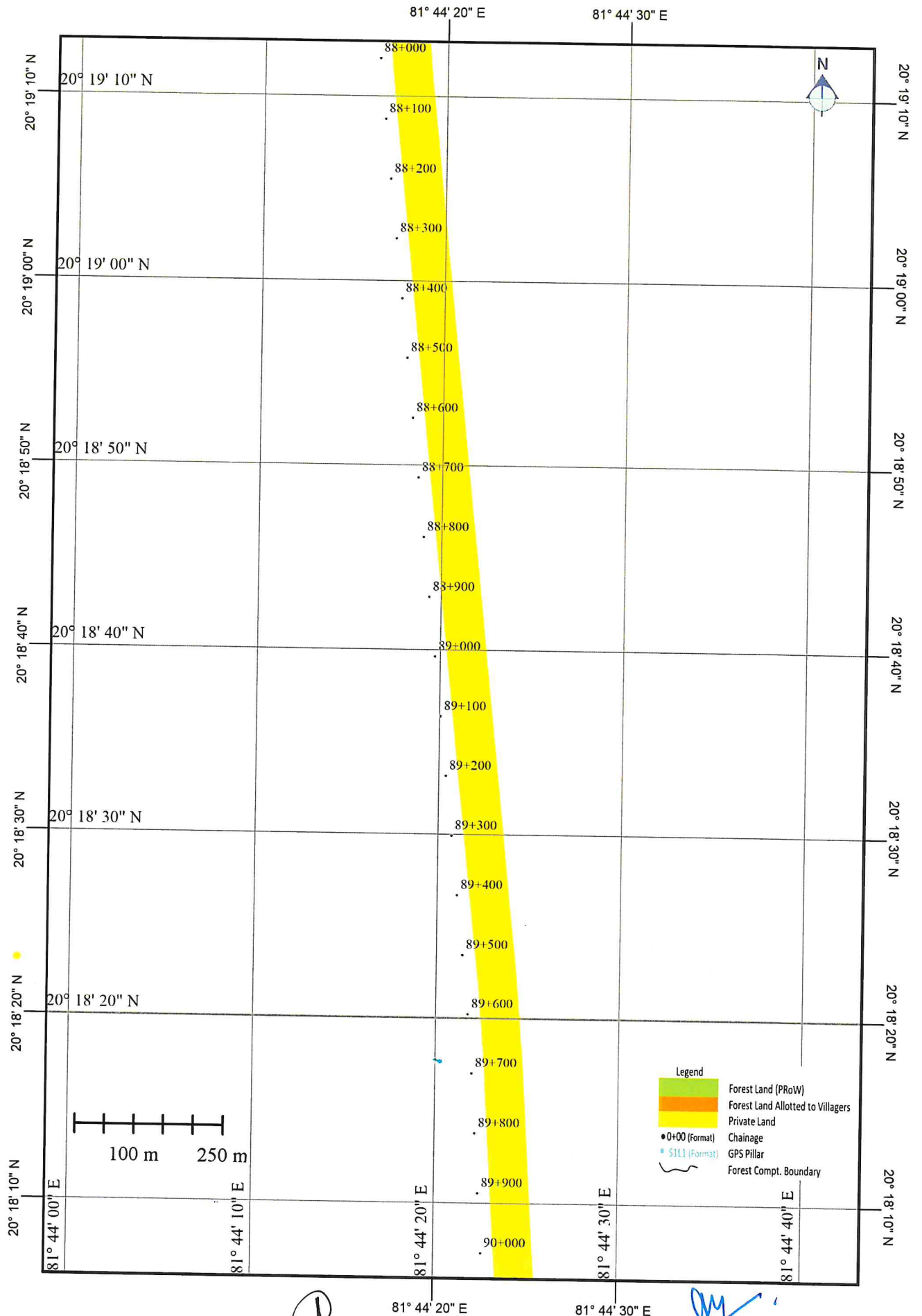
PROJECT DIRECTOR
N. P. Dhamtari (C.G.)



परिक्षेत्र अधिकारी
नरहरपुर

PROJECT DIRECTOR
NHAI, PU, Dhamter (C.G.)





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नरहरपुर

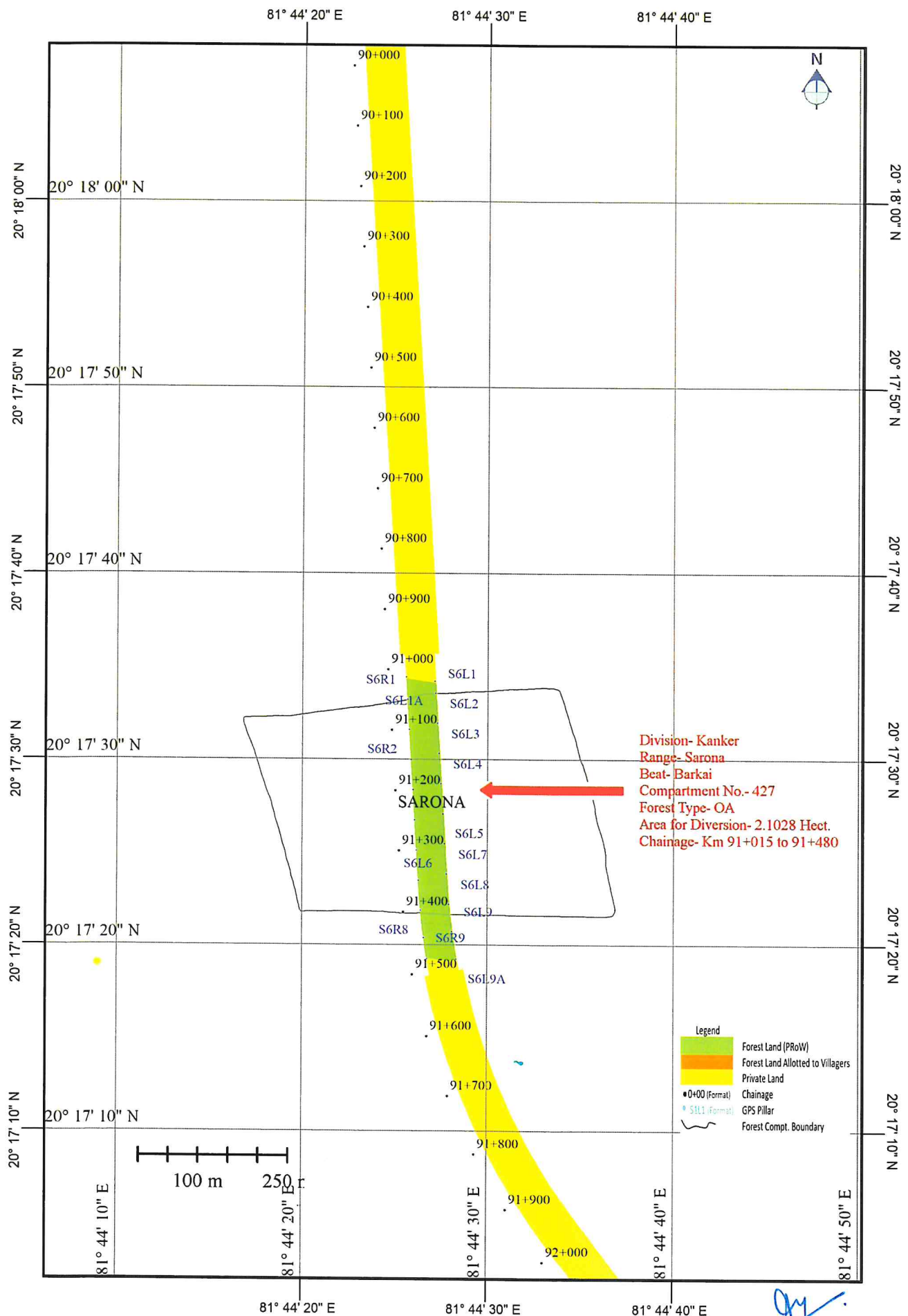
PROJECT DIRECTOR
NHA, PIU, Dhamleri (C.G.)

					86+410	S5R31A	81°44' 08.9085" E	20°20' 00.9978" N

SEGMENT 6: KANKER								
PRoW Chainage	Pillar ID	Left			PRoW Chainage	Pillar ID	Right	
		Longitude	Latitude				Longitude	Latitude
91+020	S6L1A	81°44' 27.1531" E	20°17' 34.1617" N		91+015	S6R1A	81°44' 25.5853" E	20°17' 34.3897" N
91+040	S6L1	81°44' 27.1923" E	20°17' 33.5291" N		91+050	S6R1	81°44' 25.6594" E	20°17' 33.1943" N
91+090	S6L2	81°44' 27.2929" E	20°17' 31.9060" N		91+100	S6R2	81°44' 25.7600" E	20°17' 31.5712" N
91+140	S6L3	81°44' 27.3935" E	20°17' 30.2829" N		91+150	S6R3	81°44' 25.8606" E	20°17' 29.9481" N
91+190	S6L4	81°44' 27.4941" E	20°17' 28.6598" N		91+200	S6R4	81°44' 25.9612" E	20°17' 28.3249" N
91+240	S6L5	81°44' 27.5947" E	20°17' 27.0366" N		91+250	S6R5	81°44' 26.0618" E	20°17' 26.7018" N
91+290	S6L6	81°44' 27.6953" E	20°17' 25.4135" N		91+300	S6R6	81°44' 26.1625" E	20°17' 25.0787" N
91+340	S6L7	81°44' 27.7975" E	20°17' 23.7905" N		91+350	S6R7	81°44' 26.2659" E	20°17' 23.4557" N
91+390	S6L8	81°44' 27.9241" E	20°17' 22.1690" N		91+400	S6R8	81°44' 26.3983" E	20°17' 21.8347" N
91+445	S6L9	81°44' 28.0928" E	20°17' 20.6903" N		91+440	S6R9	81°44' 26.5729" E	20°17' 20.3740" N
91+485	S6L9A	81°44' 28.3278" E	20°17' 19.2229" N		91+480	S6R9A	81°44' 26.7522" E	20°17' 19.2369" N

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सरोज

PROJECT DIRECTOR
NHAI, PIU, Dhamtari (C.G.)



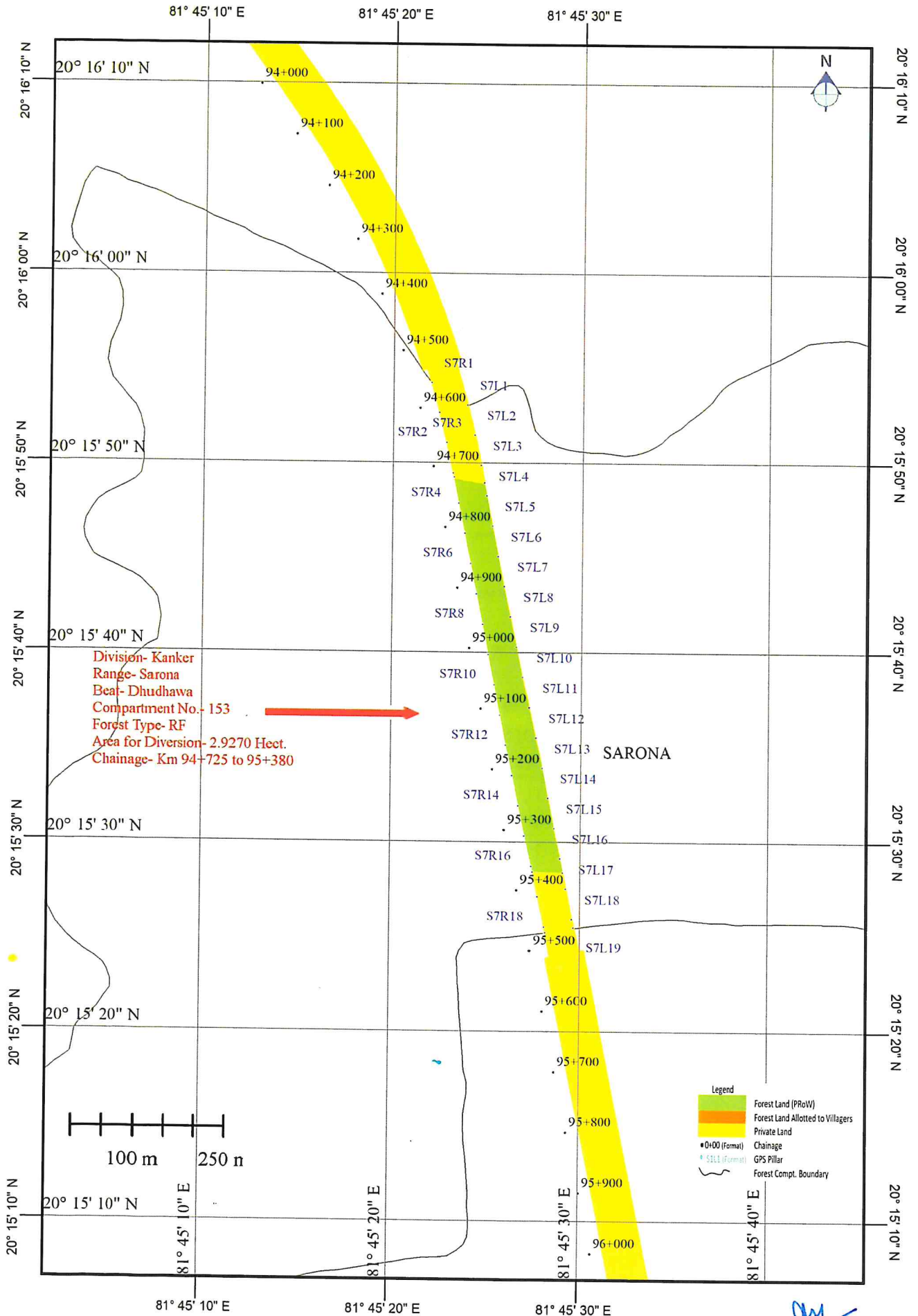
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सरना

PROJECT DIRECTOR
NHAI, PIU, Dhamra (C.G.)

SEGMENT 7: KANKER								
PRoW Chainage	Pillar ID	Left			PRoW Chainage	Pillar ID	Right	
		Longitude	Latitude				Longitude	Latitude
94+595	S7L1	81°45' 23.9568" E	20°15' 53.0271" N		94+555	S7R1	81°45' 22.0191" E	20°15' 54.1999" N
94+645	S7L2	81°45' 24.3508" E	20°15' 51.4444" N		94+605	S7R2	81°45' 22.4639" E	20°15' 52.6291" N
94+695	S7L3	81°45' 24.6954" E	20°15' 49.8514" N		94+655	S7R3	81°45' 22.8557" E	20°15' 51.0459" N
94+725	S7L4A	81°45' 24.8832" E	20°15' 48.9386" N		94+705	S7R4	81°45' 23.1981" E	20°15' 49.4525" N
94+745	S7L4	81°45' 25.0236" E	20°15' 48.2552" N		94+715	S7R5A	81°45' 23.2622" E	20°15' 49.2244" N
94+795	S7L5	81°45' 25.3516" E	20°15' 46.6591" N		94+755	S7R5	81°45' 23.5261" E	20°15' 47.8563" N
94+845	S7L6	81°45' 25.6796" E	20°15' 45.0629" N		94+805	S7R6	81°45' 23.8541" E	20°15' 46.2601" N
94+895	S7L7	81°45' 26.0076" E	20°15' 43.4667" N		94+855	S7R7	81°45' 24.1821" E	20°15' 44.6640" N
94+945	S7L8	81°45' 26.3356" E	20°15' 41.8705" N		94+905	S7R8	81°45' 24.5100" E	20°15' 43.0678" N
94+995	S7L9	81°45' 26.6636" E	20°15' 40.2744" N		94+955	S7R9	81°45' 24.8380" E	20°15' 41.4716" N
95+045	S7L10	81°45' 26.9916" E	20°15' 38.6782" N		95+005	S7R10	81°45' 25.1660" E	20°15' 39.8754" N
95+095	S7L11	81°45' 27.3195" E	20°15' 37.0820" N		95+055	S7R11	81°45' 25.4940" E	20°15' 38.2793" N
95+145	S7L12	81°45' 27.6475" E	20°15' 35.4858" N		95+105	S7R12	81°45' 25.8220" E	20°15' 36.6831" N
95+195	S7L13	81°45' 27.9755" E	20°15' 33.8897" N		95+155	S7R13	81°45' 26.1500" E	20°15' 35.0869" N
95+245	S7L14	81°45' 28.3035" E	20°15' 32.2935" N		95+205	S7R14	81°45' 26.4780" E	20°15' 33.4908" N
95+295	S7L15	81°45' 28.6315" E	20°15' 30.6973" N		95+255	S7R15	81°45' 26.8060" E	20°15' 31.8946" N
95+345	S7L16	81°45' 28.9595" E	20°15' 29.1012" N		95+305	S7R16	81°45' 27.1340" E	20°15' 30.2984" N
95+368	S7L16A	81°45' 29.1138" E	20°15' 28.3504" N		95+355	S7R17	81°45' 27.4620" E	20°15' 28.7022" N
95+395	S7L17	81°45' 29.2875" E	20°15' 27.5050" N		95+365	S7R17A	81°45' 27.5230" E	20°15' 28.4052" N
95+445	S7L18	81°45' 29.6155" E	20°15' 25.9088" N		95+405	S7R18	81°45' 27.7900" E	20°15' 27.1061" N
95+466	S7L19	81°45' 29.7099" E	20°15' 25.4492" N		95+455	S7R19	81°45' 28.1179" E	20°15' 25.5099" N
					95+470	S7R20	81°45' 28.1800" E	20°15' 25.2078" N

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सरोना

PROJECT DIRECTOR
NHAI, PIU, Dhamteri (C.G.)



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PROJECT DIRECTOR
NHAI, PIU, Dhamteri (C.G.)

SEGMENT 8: KANKER							
PRoW	Pillar ID	Left			PRoW	Pillar ID	Right
Chainage		Longitude	Latitude		Chainage		Latitude
103+667	SRL1A	81° 46' 10.4805" E	20° 11' 05.1226" N		103+668	S8R1A	81° 46' 08.6642" E
103+742	S8L1	81° 46' 09.2724" E	20° 11' 02.9150" N		103+725	S8R1	81° 46' 07.7581" E
103+792	S8L2	81° 46' 08.4818" E	20° 11' 01.4705" N		103+775	S8R2	81° 46' 06.9676" E
103+842	S8L3	81° 46' 07.6913" E	20° 11' 00.0261" N		103+825	S8R3	81° 46' 06.1771" E
103+892	S8L4	81° 46' 06.9013" E	20° 10' 58.5813" N		103+875	S8R4	81° 46' 05.3886" E
103+942	S8L5	81° 46' 06.1341" E	20° 10' 57.1258" N		103+925	S8R5	81° 46' 04.6276" E
103+992	S8L6	81° 46' 05.4426" E	20° 10' 55.6371" N		103+975	S8R6	81° 46' 03.9514" E
104+042	S8L7	81° 46' 04.8941" E	20° 10' 54.0966" N		104+025	S8R7	81° 46' 03.4086" E
104+092	S8L8	81° 46' 04.5536" E	20° 10' 52.5041" N		104+075	S8R8	81° 46' 03.0503" E
104+142	S8L9	81° 46' 04.4355" E	20° 10' 50.8832" N		104+125	S8R9	81° 46' 02.8946" E
104+192	S8L10	81° 46' 04.5470" E	20° 10' 49.2619" N		104+175	S8R10	81° 46' 02.9408" E
104+242	S8L11	81° 46' 04.8848" E	20° 10' 47.6688" N		104+225	S8R11	81° 46' 03.1917" E
104+292	S8L12	81° 46' 05.4413" E	20° 10' 46.1314" N		104+275	S8R12	81° 46' 03.6424" E
104+342	S8L13	81° 46' 06.2080" E	20° 10' 44.6770" N		104+325	S8R13	81° 46' 04.2837" E
104+392	S8L14	81° 46' 07.1711" E	20° 10' 43.3306" N		104+375	S8R14	81° 46' 05.1087" E
104+442	S8L15	81° 46' 08.3158" E	20° 10' 42.1177" N		104+425	S8R15	81° 46' 06.1120" E
104+492	S8L16	81° 46' 09.6093" E	20° 10' 41.0458" N		104+475	S8R16	81° 46' 07.2651" E
104+542	S8L17	81° 46' 10.9974" E	20° 10' 40.0843" N		104+525	S8R17	81° 46' 08.5573" E
104+592	S8L18	81° 46' 12.4357" E	20° 10' 39.1902" N		104+575	S8R18	81° 46' 09.9393" E
104+642	S8L19	81° 46' 13.8868" E	20° 10' 38.3149" N		104+625	S8R19	81° 46' 11.3732" E
104+692	S8L20	81° 46' 15.3384" E	20° 10' 37.4403" N		104+675	S8R20	81° 46' 12.8240" E
104+742	S8L21	81° 46' 16.7901" E	20° 10' 36.5656" N		104+725	S8R21	81° 46' 14.2756" E
104+792	S8L22	81° 46' 18.2416" E	20° 10' 35.6908" N		104+775	S8R22	81° 46' 15.7272" E
104+842	S8L23	81° 46' 19.6847" E	20° 10' 34.8039" N		104+825	S8R23	81° 46' 17.1788" E
104+892	S8L24	81° 46' 21.0894" E	20° 10' 33.8638" N		104+875	S8R24	81° 46' 18.6249" E
104+942	S8L25	81° 46' 22.4244" E	20° 10' 32.8376" N		104+925	S8R25	81° 46' 20.0365" E
104+992	S8L26	81° 46' 23.6657" E	20° 10' 31.7114" N		104+975	S8R26	81° 46' 21.3727" E

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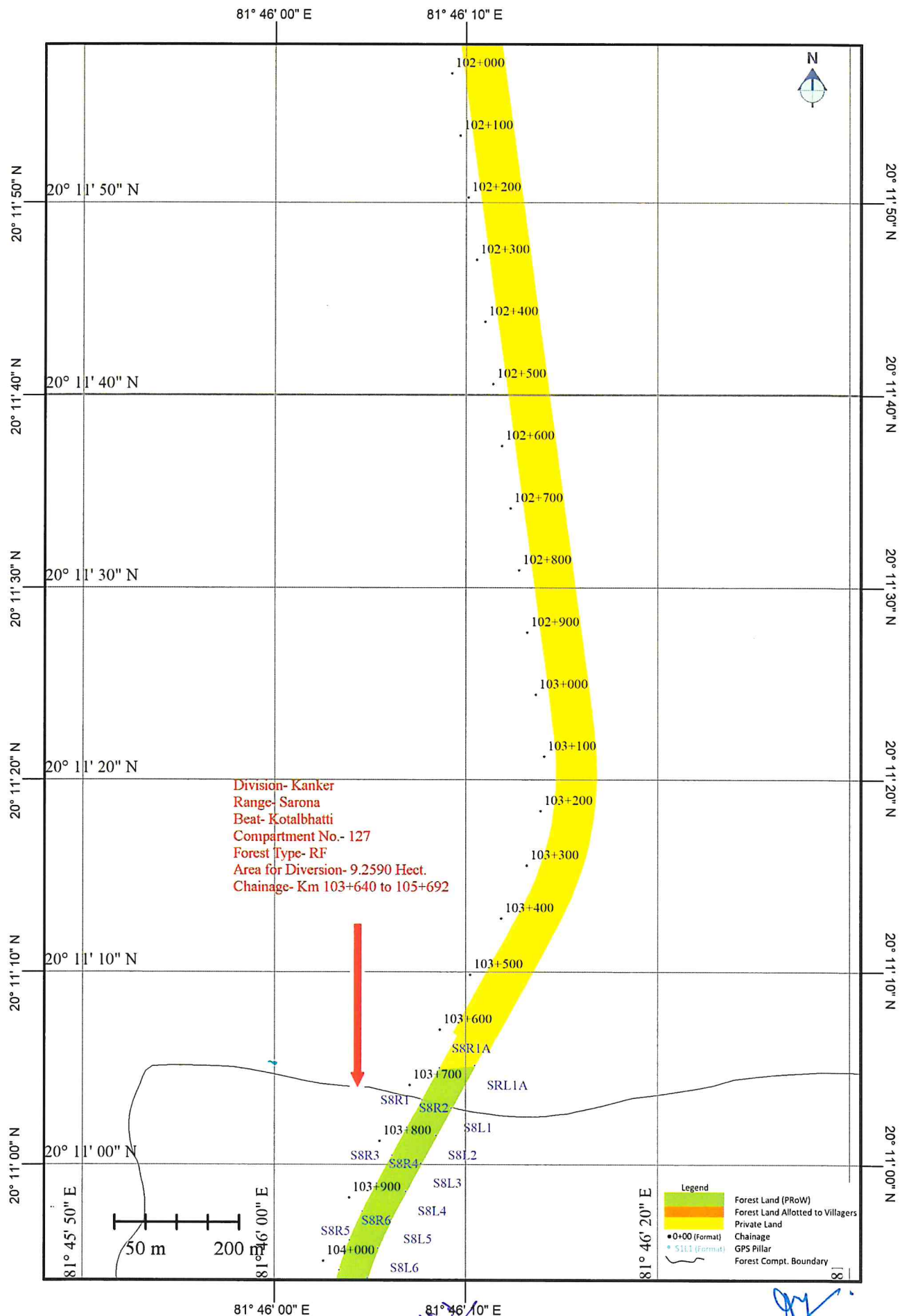
PROJECT DIRECTOR
NHAI PUI Dhamtari (C)

105+042	S8L27	81° 46' 24.8160" E	20° 10' 30.5018" N		105+025	S8R27	81° 46' 22.6157" E	20° 10' 30.6331" N
105+092	S8L28	81° 46' 25.8977" E	20° 10' 29.2368" N		105+075	S8R28	81° 46' 23.7566" E	20° 10' 29.4157" N
105+142	S8L29	81° 46' 26.9557" E	20° 10' 27.9540" N		105+125	S8R29	81° 46' 24.8334" E	20° 10' 28.1470" N
105+192	S8L30	81° 46' 28.0122" E	20° 10' 26.6701" N		105+175	S8R30	81° 46' 25.8905" E	20° 10' 26.8635" N
105+242	S8L31	81° 46' 29.0687" E	20° 10' 25.3862" N		105+225	S8R31	81° 46' 26.9470" E	20° 10' 25.5795" N
105+292	S8L32	81° 46' 30.1252" E	20° 10' 24.1022" N		105+275	S8R32	81° 46' 28.0035" E	20° 10' 24.2956" N
105+342	S8L33	81° 46' 31.1817" E	20° 10' 22.8183" N		105+325	S8R33	81° 46' 29.0600" E	20° 10' 23.0117" N
105+392	S8L34	81° 46' 32.2382" E	20° 10' 21.5344" N		105+375	S8R34	81° 46' 30.1165" E	20° 10' 21.7277" N
105+442	S8L35	81° 46' 33.2946" E	20° 10' 20.2505" N		105+425	S8R35	81° 46' 31.1730" E	20° 10' 20.4438" N
105+492	S8L36	81° 46' 34.3511" E	20° 10' 18.9665" N		105+475	S8R36	81° 46' 32.2295" E	20° 10' 19.1599" N
105+542	S8L37	81° 46' 35.4076" E	20° 10' 17.6826" N		105+525	S8R37	81° 46' 33.2860" E	20° 10' 17.8760" N
105+592	S8L38	81° 46' 36.4641" E	20° 10' 16.3987" N		105+575	S8R38	81° 46' 34.3424" E	20° 10' 16.5921" N
105+642	S8L39	81° 46' 37.5206" E	20° 10' 15.1148" N		105+625	S8R39	81° 46' 35.3989" E	20° 10' 15.3081" N
105+692	S8L40	81° 46' 38.5771" E	20° 10' 13.8308" N		105+675	S8R40	81° 46' 36.4554" E	20° 10' 14.0242" N
105+742	S8L41	81° 46' 39.6336" E	20° 10' 12.5469" N		105+725	S8R41	81° 46' 37.5119" E	20° 10' 12.7403" N
105+792	S8L42	81° 46' 40.6901" E	20° 10' 11.2630" N		105+775	S8R42	81° 46' 38.5684" E	20° 10' 11.4564" N
105+842	S8L43	81° 46' 41.7465" E	20° 10' 09.9791" N		105+825	S8R43	81° 46' 39.6249" E	20° 10' 10.1725" N
105+892	S8L44	81° 46' 42.8030" E	20° 10' 08.6952" N		105+875	S8R44	81° 46' 40.6814" E	20° 10' 08.8885" N
105+942	S8L45	81° 46' 43.8595" E	20° 10' 07.4112" N		105+925	S8R45	81° 46' 41.7378" E	20° 10' 07.6046" N
105+992	S8L46	81° 46' 44.9160" E	20° 10' 06.1273" N		105+975	S8R46	81° 46' 42.7943" E	20° 10' 06.3207" N
106+042	S8L47	81° 46' 45.9722" E	20° 10' 04.8432" N		106+025	S8R47	81° 46' 43.8508" E	20° 10' 05.0368" N
106+092	S8L48	81° 46' 47.0138" E	20° 10' 03.5486" N		106+075	S8R48	81° 46' 44.9067" E	20° 10' 03.7525" N
106+142	S8L49	81° 46' 48.0021" E	20° 10' 02.2174" N		106+125	S8R49	81° 46' 45.9418" E	20° 10' 02.4532" N
106+192	S8L50	81° 46' 48.9232" E	20° 10' 00.8439" N		106+175	S8R50	81° 46' 46.9174" E	20° 10' 01.1137" N
106+242	S8L51	81° 46' 49.7693" E	20° 09' 59.4280" N		106+225	S8R51	81° 46' 47.8198" E	20° 09' 59.7292" N
106+292	S8L52	81° 46' 50.5432" E	20° 09' 57.9758" N		106+275	S8R52	81° 46' 48.6453" E	20° 09' 58.3025" N
106+342	S8L53	81° 46' 51.2395" E	20° 09' 56.4890" N		106+325	S8R53	81° 46' 49.3915" E	20° 09' 56.8374" N
106+392	S8L54	81° 46' 51.8589" E	20° 09' 54.9721" N		106+375	S8R54	81° 46' 50.0602" E	20° 09' 55.3393" N
106+442	S8L55	81° 46' 52.3990" E	20° 09' 53.4284" N		106+425	S8R55	81° 46' 50.6449" E	20° 09' 53.8102" N
106+492	S8L56	81° 46' 52.8582" E	20° 09' 51.8616" N		106+475	S8R56	81° 46' 51.1465" E	20° 09' 52.2550" N
106+542	S8L57	81° 46' 53.2366" E	20° 09' 50.2756" N		106+525	S8R57	81° 46' 51.5611" E	20° 09' 50.6771" N
106+592	S8L58	81° 46' 53.5319" E	20° 09' 48.6740" N		106+575	S8R58	81° 46' 51.8934" E	20° 09' 49.0821" N
106+642	S8L59	81° 46' 53.6279" E	20° 09' 48.0270" N		106+625	S8R59	81° 46' 52.0880" E	20° 09' 47.8613" N

प्रोजेक्ट डायरेक्टर
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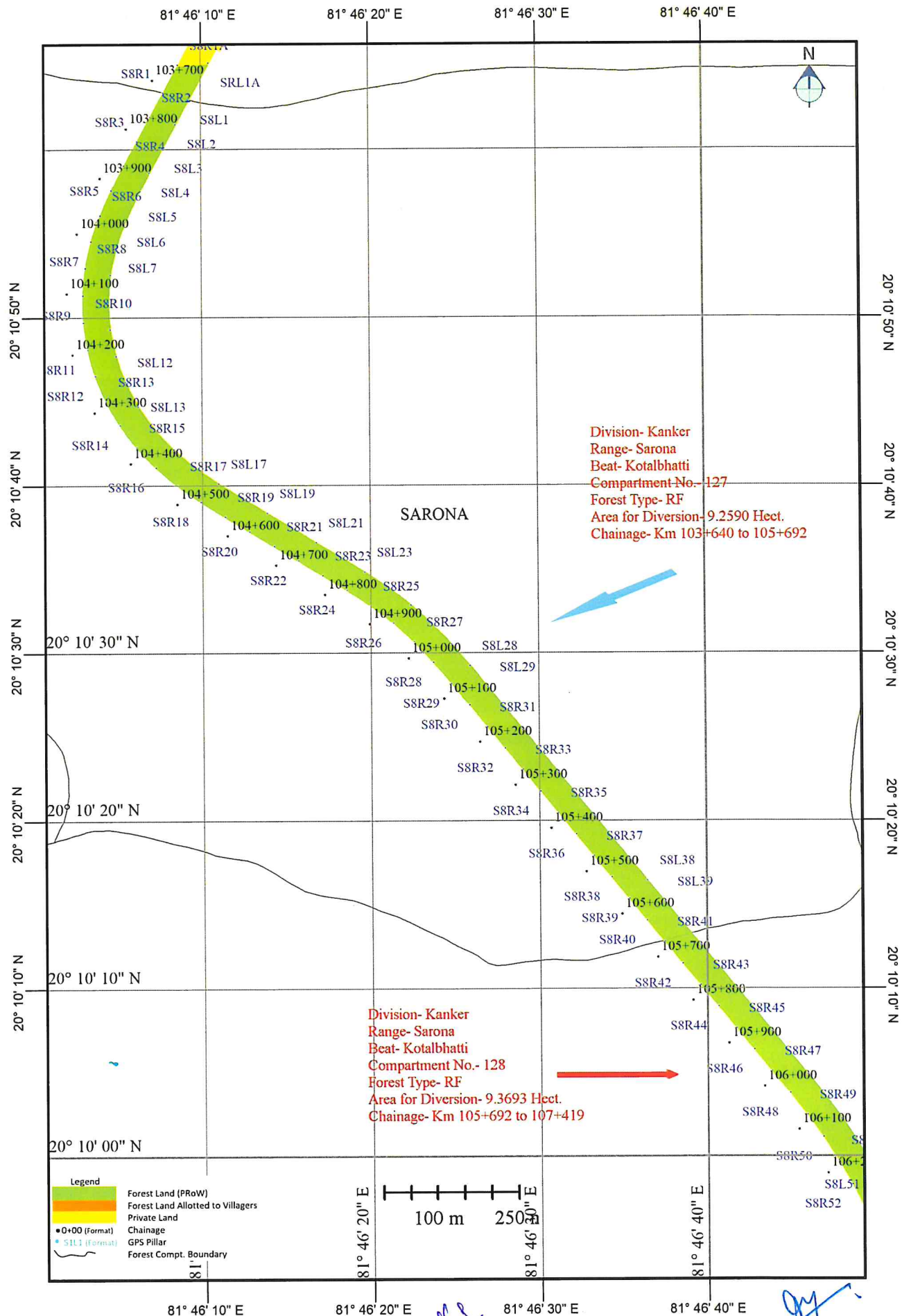
106+642	S8L59A	81°46' 54.5638" E	20°09' 48.1660" N		106+625	S8R59A	81°46' 51.1489" E	20°09' 47.7457" N
106+692	S8L60	81°46' 54.8137" E	20°09' 45.5564" N		106+675	S8R60	81°46' 51.3467" E	20°09' 45.8417" N
106+742	S8L61	81°46' 54.8633" E	20°09' 43.8495" N		106+725	S8R61	81°46' 51.4131" E	20°09' 44.3858" N
106+792	S8L62	81°46' 54.8244" E	20°09' 42.1772" N		106+775	S8R62	81°46' 51.4063" E	20°09' 42.8613" N
106+842	S8L63	81°46' 54.6972" E	20°09' 40.4914" N		106+825	S8R63	81°46' 51.3138" E	20°09' 41.2784" N
106+892	S8L63A	81°46' 54.4303" E	20°09' 38.4951" N		106+875	S8R63A	81°46' 51.0274" E	20°09' 38.9943" N
106+892	S8L64	81°46' 53.4939" E	20°09' 38.6291" N		106+875	S8R64	81°46' 51.9618" E	20°09' 38.8483" N
106+942	S8L65	81°46' 53.2527" E	20°09' 37.3513" N		106+925	S8R65	81°46' 51.8005" E	20°09' 37.9628" N
106+992	S8L66	81° 46' 52.8804" E	20° 09' 35.7641" N		106+975	S8R66	81°46' 51.4421" E	20°09' 36.3727" N
107+042	S8L67	81° 46' 52.4241" E	20° 09' 34.1965" N		107+025	S8R67	81°46' 50.9998" E	20°09' 34.8015" N
107+092	S8L68	81° 46' 51.8891" E	20° 09' 32.6513" N		107+075	S8R68	81°46' 50.4711" E	20°09' 33.2543" N
107+142	S8L69	81° 46' 51.2741" E	20° 09' 31.1328" N		107+125	S8R69	81°46' 49.8601" E	20°09' 31.7344" N
107+192	S8L70	81° 46' 50.5790" E	20° 09' 29.6455" N		107+175	S8R70	81°46' 49.1678" E	20°09' 30.2459" N
107+242	S8L71	81° 46' 49.8262" E	20° 09' 28.1833" N		107+225	S8R71	81°46' 48.4110" E	20°09' 28.7856" N
107+292	S8L72	81° 46' 49.0517" E	20° 09' 26.7311" N		107+275	S8R72	81°46' 47.6376" E	20°09' 27.3329" N
107+342	S8L73	81° 46' 48.2766" E	20° 09' 25.2793" N		107+325	S8R73	81°46' 46.8625" E	20°09' 25.8810" N
107+392	S8L74	81° 46' 47.5016" E	20° 09' 23.8274" N		107+375	S8R74	81°46' 46.0874" E	20°09' 24.4292" N
107+442	S8L75	81° 46' 46.7265" E	20° 09' 22.3755" N		107+425	S8R75	81°46' 45.3124" E	20°09' 22.9773" N
107+444	S8L76	81° 46' 46.6930" E	20° 09' 22.3127" N		107+450	S8R76	81°46' 44.8436" E	20°09' 22.0992" N


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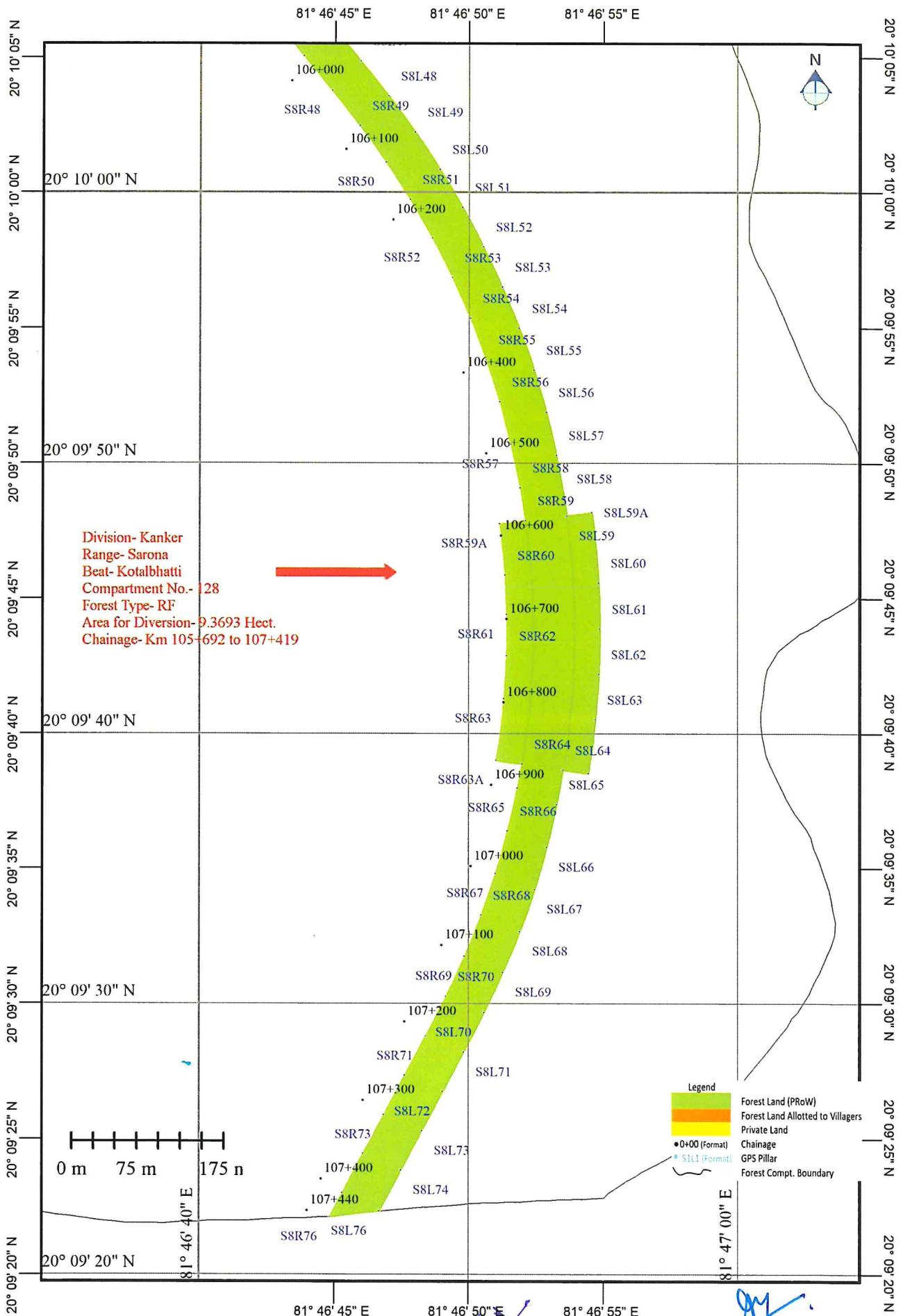
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सररना

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सरोना

PROJECT DIRECTOR
NHAI, PIU, Oshamteri (C.G.)



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सरुना

PROJECT DIRECTOR
NHAI, PIU, Dhamdham (C.G.)

Forest Land Statement

Name of Project: -Development of Economic Corridors, Inter-corridors, feeder routes and Coastal Road to improve the efficiency of freight movement in India (Lot-3/Odisha & Jharkhand/Package-2) Raipur-Vishakhapatnam (Ch. 0.000 - Ch. 124.661 km) (Length 124.661 km) in the State of Chhattisgarh under BharatmalaPariyojana.(Forest Proposal is for between km 42+844 to Km 124.661).

Sl	Chainage		Length (m)	PRoW (m)	Forest Area (in Ha)	Forest Type	Forest Division	Forest Range	Forest Beat	Comp. No	Remarks
	From	To									
1	80+905	81+044	139	45	0.6119	OA	KANKER	NARHARPUR	JAMGAON	472	Forest Area is calculated as per Polygon size.
2	81+044	82+134	1090	45	4.9339	RF	KANKER	NARHARPUR	JAMGAON	211	_DO_
3	82+134	82+169	35	45	0.1863	OA	KANKER	NARHARPUR	JAMGAON	472	_DO_
4	82+169	82+245	76	45	0.3226	OA	KANKER	NARHARPUR	JAMGAON	472	Non-Forest Land within Forest Compartment.
5	82+245	82+523	278		1.2421	OA	KANKER	NARHARPUR	JAMGAON	472	Forest Area is calculated as per Polygon size.
6	83+802	83+934	132	45	0.5203	OA	KANKER	NARHARPUR	DABBIPANI	480	_DO_
7	84+055	84+357	302	45	1.3559	RF	KANKER	NARHARPUR	SHAMTRA	158	_DO_
8	84+937	85+030	93	45	0.4309	OA	KANKER	NARHARPUR	SHAMTRA	478	Non-Forest Land within Forest Compartment.
9	85+030	85+180	150	45	0.3470	RF	KANKER	NARHARPUR	SHAMTRA	207	Non-Forest Land (RHS) within Forest Compartment.
10	85+030	85+375	345	45	1.2002	RF	KANKER	NARHARPUR	SHAMTRA	207	180 meters from start chainage 85+030 RF land is in LHS.
11	85+375	85+501	126	45	0.5695	RF	KANKER	NARHARPUR	SHAMTRA	158	Forest Area is calculated as per Polygon size.
12	85+501	86+400	899	45	3.7082	OA	KANKER	NARHARPUR	SHAMTRA	479	_DO_
13	91+015	91+480	465	45	2.1028	OA	KANKER	SARONA	BARKAI	427	_DO_
14	94+725	95+380	655	45	2.9270	RF	KANKER	SARONA	DHUDHAWA	153	_DO_
15	103+640	105+692	2052	45	9.2590	RF	KANKER	SARONA	KOTALBHATTI	127	_DO_
15	105+692	107+419	1727	45	9.3693	RF	KANKER	SARONA	KOTALBHATTI	128	_DO_
			8564		39.0869						

Note: -1 Compartment wise Forest land diversion Area is as per polygon size (with shape of particular compartment) in between particular chainage. In general, proposed with of Project road is 60 meters but in Forest area PRoW is restricted to 45 meters.

Date: - 04/06/21
Place:-Dhamtari

परिक्षेत्र अधिकारी
नरहरपुर

वन परिक्षेत्र अधिकारी
सरोना

Project Director
NHAI – PIU Dhamtari , Chhattisgarh

Name: - Savyasachi Choudhury

Seal & Signature

PROJECT DIRECTOR
NHAI, PIU, Dhamtari (C.G.)

Divisional Forest Officer
Forest Division Kanker