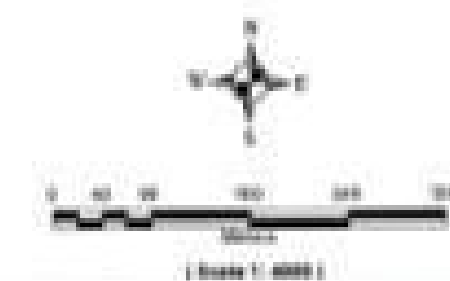
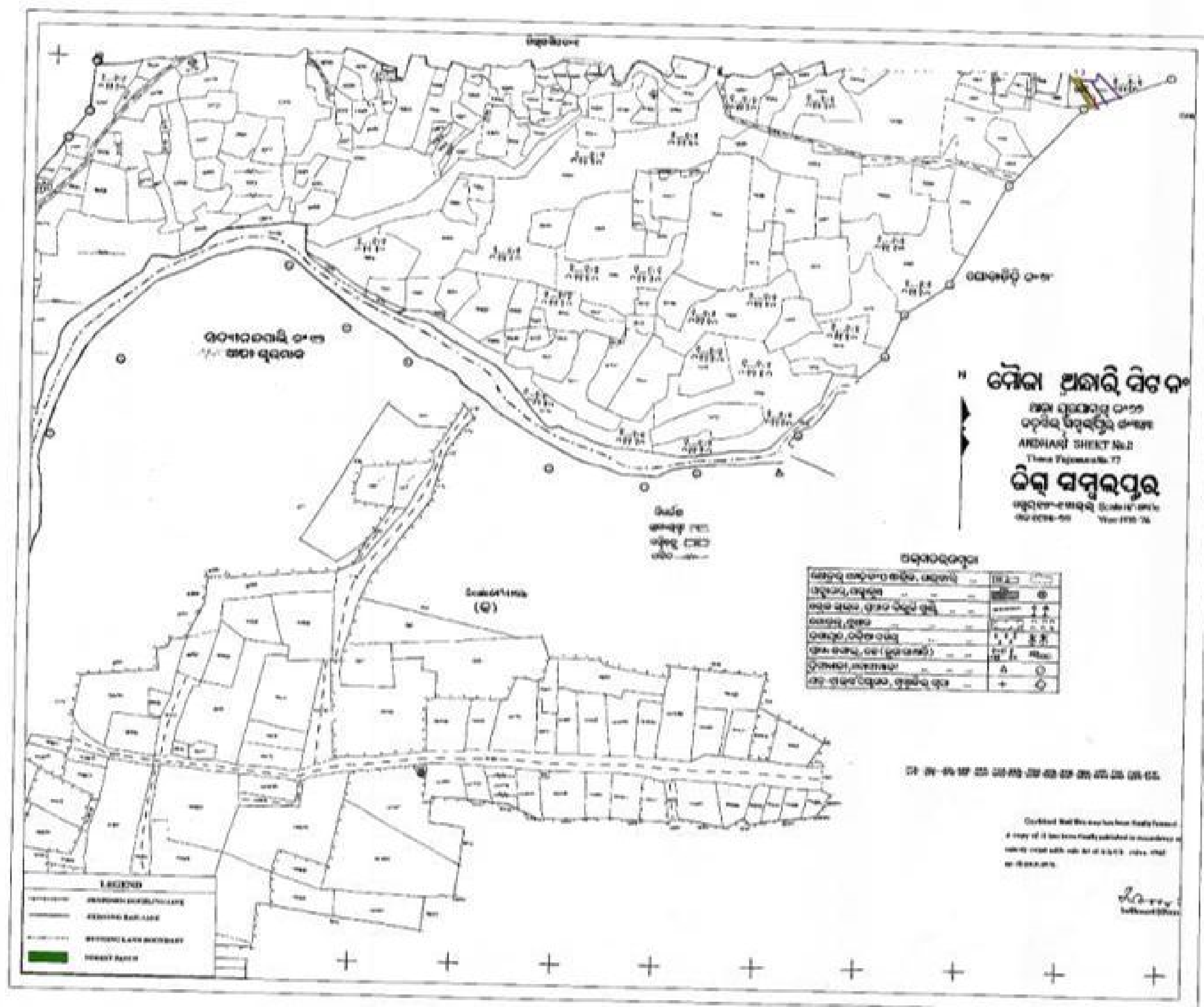


**GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - ANDHARI, SHEET - 2 , SAMBALPUR FOREST DIVISION)**



Legend

-  GEO - REFERENCED POINT
 FOREST INSIDE CORRIDOR
 DOUBLING RAILWAY LINE CORRIDOR

[illegible]

GPS-referenced co-ordinates of points				
Point no	Longitude	Latitude	Easting	Northing
1	84°00'00.000"E	23°13'13.000"N	600000.000	2540000.000
2	84°00'00.000"E	23°13'13.000"N	600000.000	2540000.000
3	84°00'00.000"E	23°13'13.000"N	600000.000	2540000.000
4	84°00'00.000"E	23°13'13.000"N	600000.000	2540000.000

FOREST AREA WITHIN CORRIDOR

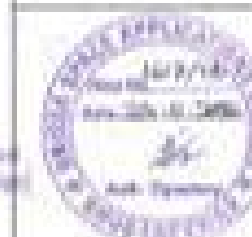
SL_NO	PLOT_NO	AREA_A	AREA_B
1	1002	0.500	0.100

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 Springer



Exp. Clin. Immunopathol. 1992; 16: 1-10



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Bhubaneswar, Orissa, India
(Bhubaneswar 751 005)

GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - BHIMKHOJ, SHEET -1 , SAMBALPUR FOREST DIVISION)

ମୌଳିକ ବିନିଷ୍କାଳନ ଶିଟ ନଂ ୧

ଭାରତ ସରକାର
 ପୃଷ୍ଠିକା ପ୍ରଦାନକାରୀ ନଂ ୩୨୨

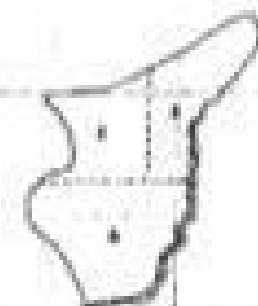
(BHIMKHOJ SHEET No.1)

Thane Zojirama No. 03

ବିଲ୍ ସମ୍ବଲପୁର

ସ୍ଥାନ ନାମ: ଭିମକୋଇ, ଶେଟ୍ ନଂ ୧
 ଉପ ମାପ: ୧:୫୦,୦୦୦

Index to sheets



ସମ୍ବଲପୁର ଜିଲ୍ଲା

ସମ୍ବଲପୁର ଜିଲ୍ଲା, ତା'ର ଅନ୍ତର୍ଗତ ସମ୍ବଲପୁର	ନଂ	ସମ୍ବଲପୁର
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୧	୧
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ ପ୍ରାକୃତିକ	୨	୨
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୩	୩
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୪	୪
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୫	୫
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୬	୬
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୭	୭
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୮	୮
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୯	୯
ସମ୍ବଲପୁର, ପ୍ରାକୃତିକ	୧୦	୧୦

Certified that this map has been finally prepared
 in accordance with the provisions of the Survey of India Act, 1880, and the
 Survey of India Rules, 1955, and the Survey of India Manual, 1955.

Signature of the Surveyor

SCALE

LEGEND

PROPOSED DOUBLING LINE	
EXISTING RAIL LINE	
EXISTING LAND BOUNDARY	
SETBACK	
FOREST PATCH	
RAIL ALLOTMENT	



Legend

- GEO-REFERENCED POINT
- FOREST INSIDE CORRIDOR
- DOUBLING RAILWAY LINE CORRIDOR

Geo-referenced co-ordinates of points

Point No.	Longitude	Latitude	Height	Remarks
1	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 1
2	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 2
3	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 3
4	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 4
5	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 5
6	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 6
7	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 7
8	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 8
9	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 9
10	85° 54' 30.00"	21° 57' 30.00"	200.00	Point 10

FOREST AREA WITHIN CORRIDOR

SL. NO	PLOT NO	AREA AC	AREA HA
1	162	0.128	0.052



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 650012, Bhubaneswar

Discussion



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FOREST AREA WITHIN CORRIDOR

SL_NO	PLOT_NO	AREA_AC	AREA_HA
1	535	0.189	0.077



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650024, Bhubaneswar, India

(MOUZA - CHANDINIMAL , SAMBALPUR FOREST DIVISION)

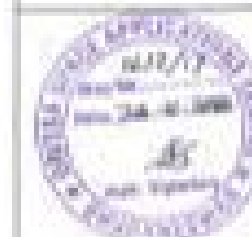


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FOREST AREA WITHIN CORRIDOR

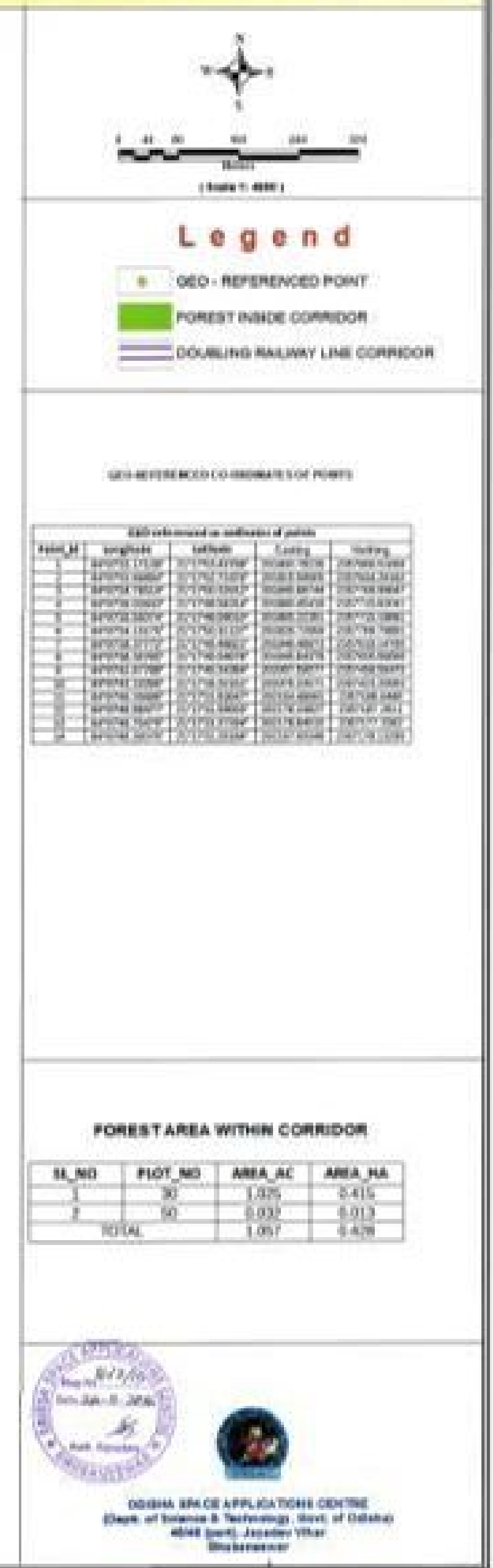
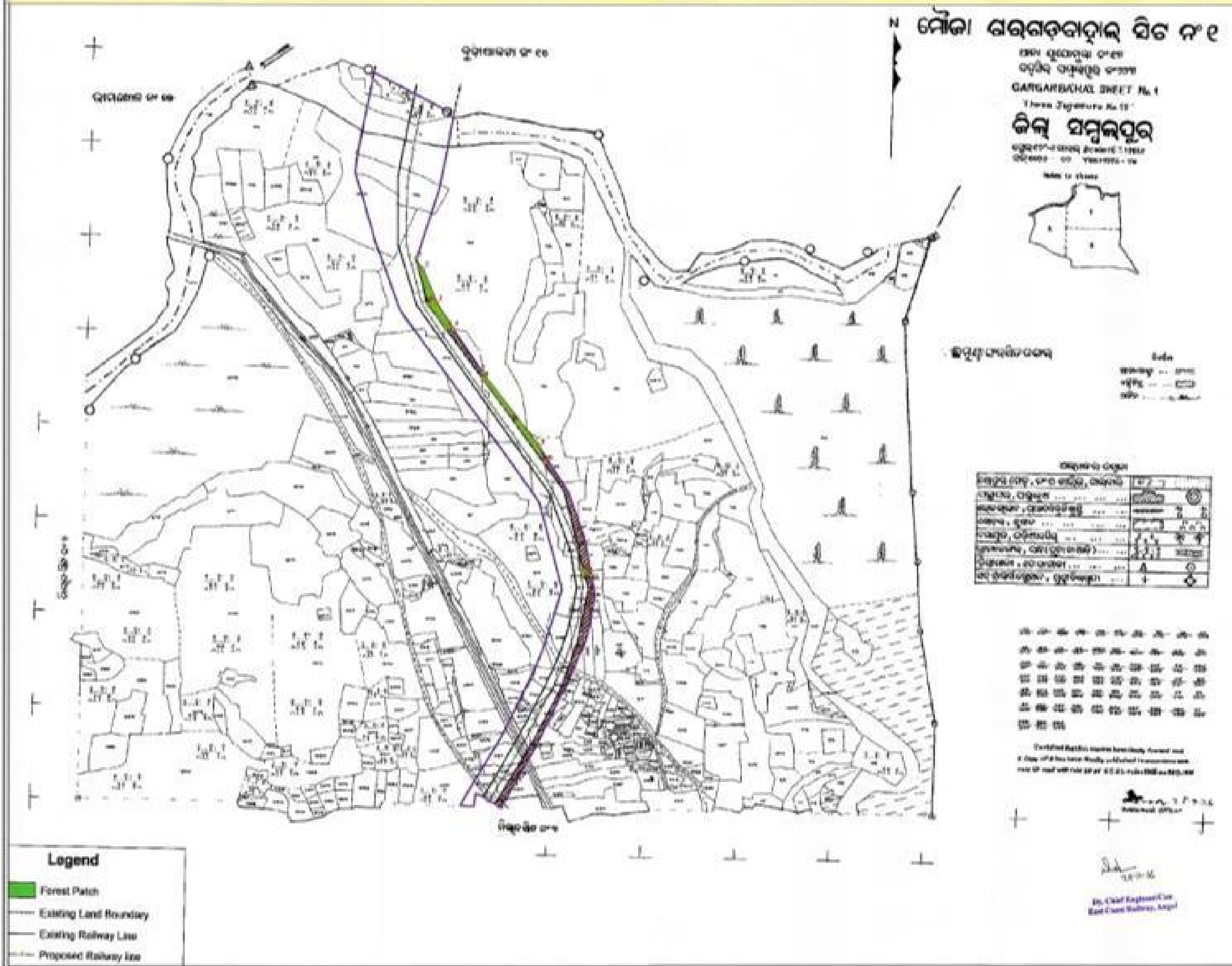
Sr. No.	Plot No.	Area Ac.	Area Ha.
1	24	0.977	0.991

By: Chief Engineer and
Rail Road Engineer, Agent

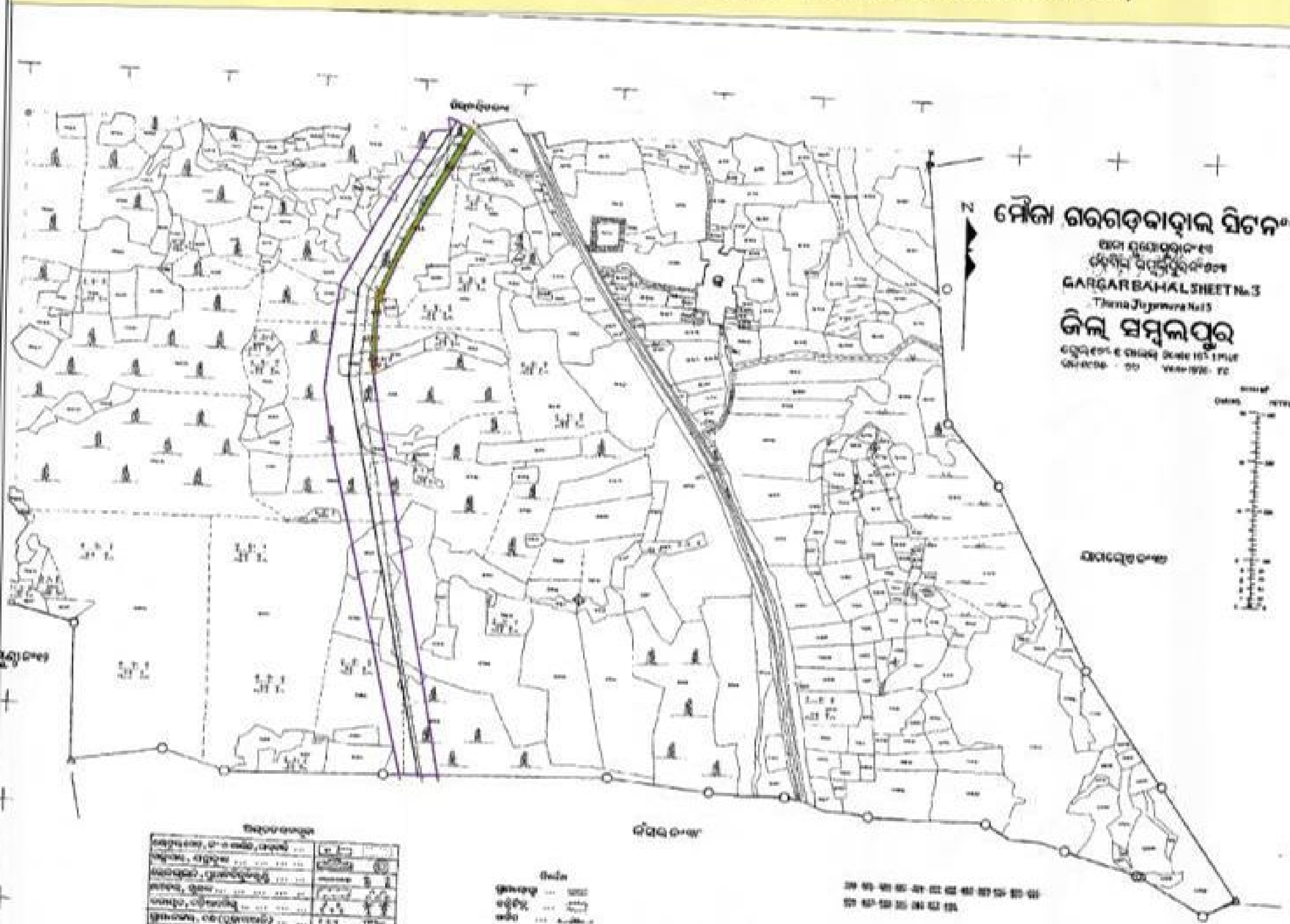


COSENA SPACE APPLICATIONS CENTER
 (Dept. of Science & Technology, Govt. of Orissa)
 680012, Jayadev Road
 Bhubaneswar

**GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - GARGARBAHAL ,SHEET - 1, SAMBALPUR FOREST DIVISION)**



**GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - GARGARBAHAL ,SHEET - 3, SAMBALPUR FOREST DIVISION)**



ମୌଳିକ ଗରଗଡ଼ବାହାଲ ସିଟ୍‌ମାପ
 ଉପାଧିକାରୀଙ୍କ
 ନାମ ଉପରେ
GARGARBAHAL SHEET No.3
 Thana Jyesthara No.3
ଜିଲ୍ଲା ସମ୍ବଲପୁର
 ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର 105.1 ମିଲିଟର
 ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ - ୨୦୧୦ ସାଲ 1996 - ୧୦

GEO-REFERENCED CO-ORDINATES OF POINTS

GEO-referenced co-ordinates of points

Point No	Longitude	Latitude	Easting	Northing
1	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
2	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
3	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
4	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
5	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
6	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
7	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
8	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
9	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
10	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
11	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
12	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
13	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
14	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
15	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
16	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
17	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
18	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
19	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000
20	85°07'30.00"E	21°17'00.00"N	750000.000	1900000.000

FOREST AREA WITHIN CORRIDOR

Sl. No	PLOT NO	AREA AC	AREA HA
1	225	0.225	0.062
2	366	0.090	0.020
3	454	0.038	0.017
4	418	0.108	0.043
5	422	0.110	0.045
6	421	0.062	0.021
TOTAL		1.334	0.481

ସମ୍ବଲପୁର ଜିଲ୍ଲା

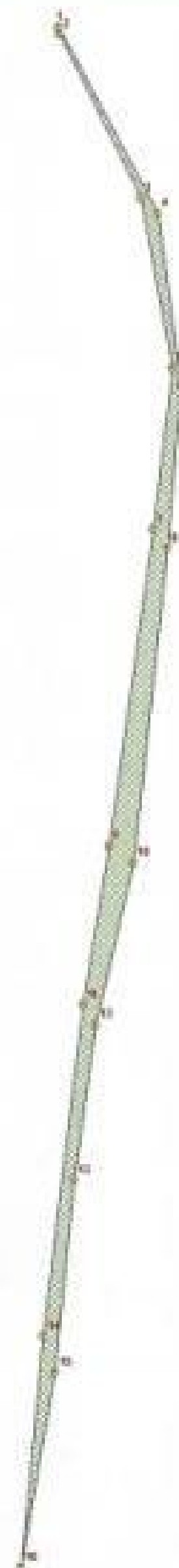
କ୍ଷେତ୍ର ନାମ	କ୍ଷେତ୍ର କୋଡ୍	କ୍ଷେତ୍ର ପ୍ରାଧିକାରୀ	କ୍ଷେତ୍ର ପ୍ରାଧିକାରୀଙ୍କ ନାମ
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର
ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଓ ଶାସ୍ତ୍ରୀୟ କ୍ଷେତ୍ର	105.1	ଜିଲ୍ଲା ସମ୍ବଲପୁର	ଜିଲ୍ଲା ସମ୍ବଲପୁର

Dy. Chief Engineer/Cen.
 East Coast Railway, Odisha



ODISHA SPACE APPLICATIONS CENTRE
 (Dept. of Science & Technology, Govt. of Odisha)
 651004 Bhubaneswar, Odisha-751004

**DGPS SURVEYED MAP SHOWING FOREST LAND COMING WITHIN THE TALCHER SAMBALPUR DOUBLING RAILWAY LINE
CORRIDOR OF EAST-COAST RAILWAY,SAMBALPUR
(HATIBARI RF , SAMBALPUR FOREST DIVISION)**



LEGEND

-  DGPS SURVEYED PILLARS
-  RESERVE FOREST LAND

DGPS SURVEYED COORDINATES

PMT. NO	LONGITUDE	LATITUDE	EASTING	NORTHING
1	84°06'03.82814"	N21°20'55.23287"	299327.277	2362508.131
2	84°06'03.84432"	N21°20'55.89932"	299327.604	2362503.734
3	84°06'05.88748"	N21°20'51.78032"	299379.207	2363488.787
4	84°06'06.07113"	N21°20'51.47305"	299388.806	2363381.171
5	84°06'06.40315"	N21°20'48.13900"	299399.329	2363293.877
6	84°06'06.52815"	N21°20'47.99038"	299404.756	2363281.779
7	84°06'06.12548"	N21°20'45.85504"	299387.736	2363152.454
8	84°06'06.44138"	N21°20'44.84903"	299386.805	2363185.912
9	84°06'05.92915"	N21°20'38.50905"	299360.404	2362994.895
10	84°06'05.84538"	N21°20'38.21548"	299375.771	2362983.296
11	84°06'04.82286"	N21°20'35.29468"	299344.621	2362893.95
12	84°06'05.11282"	N21°20'34.80038"	299351.779	2362881.685
13	84°06'04.70128"	N21°20'31.84405"	299338.152	2362784.215
14	84°06'04.11895"	N21°20'28.51344"	299330.304	2362685.618
15	84°06'04.39813"	N21°20'27.77402"	299327.961	2362662.749
16	84°06'03.74775"	N21°20'24.78887"	299307.123	2362548.895

**TOTAL AREA :-2.108 AC.
:-0.853 HA**

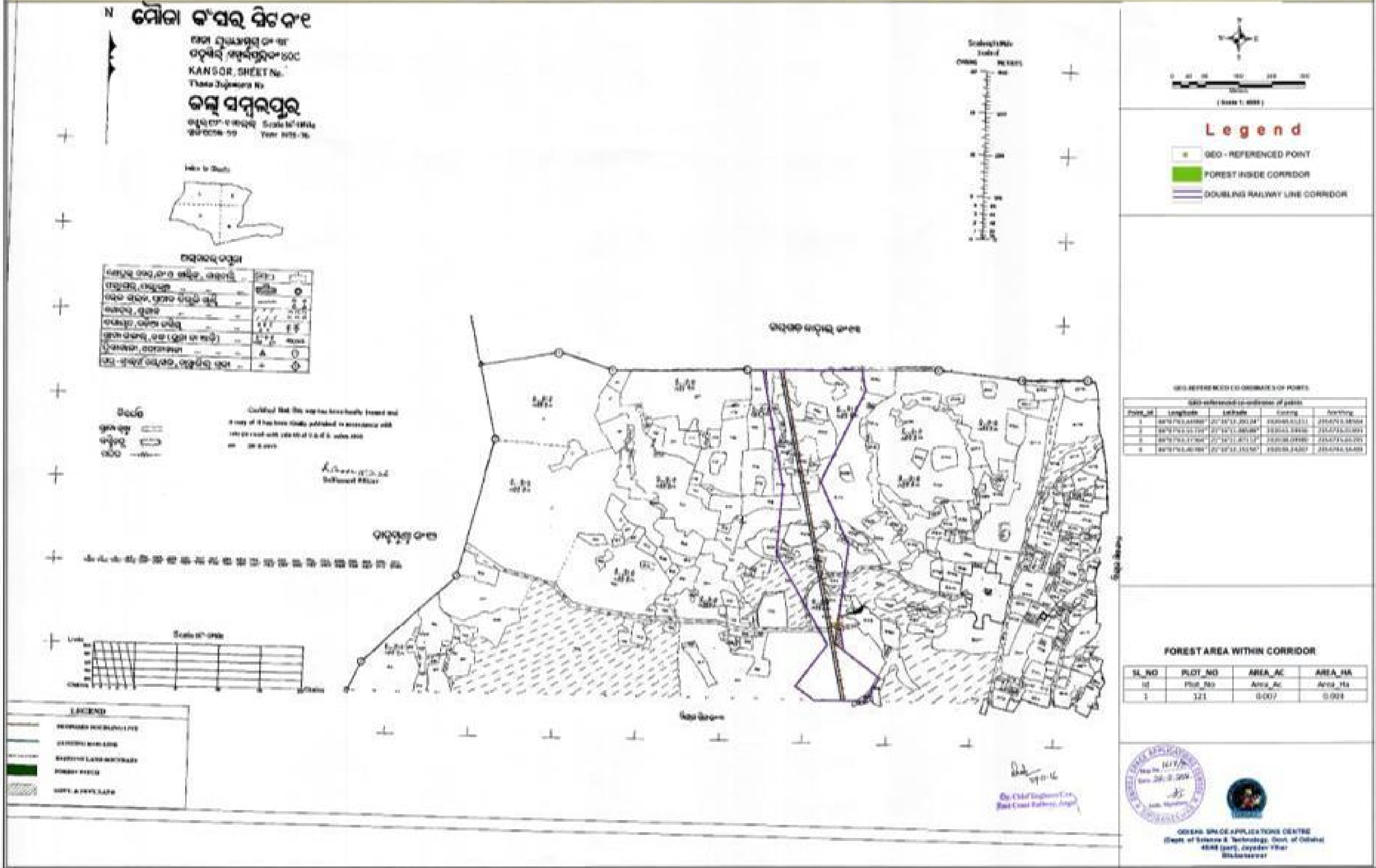
[Signature]
By, Chief Engineer/On
East Coast Railway, Angul



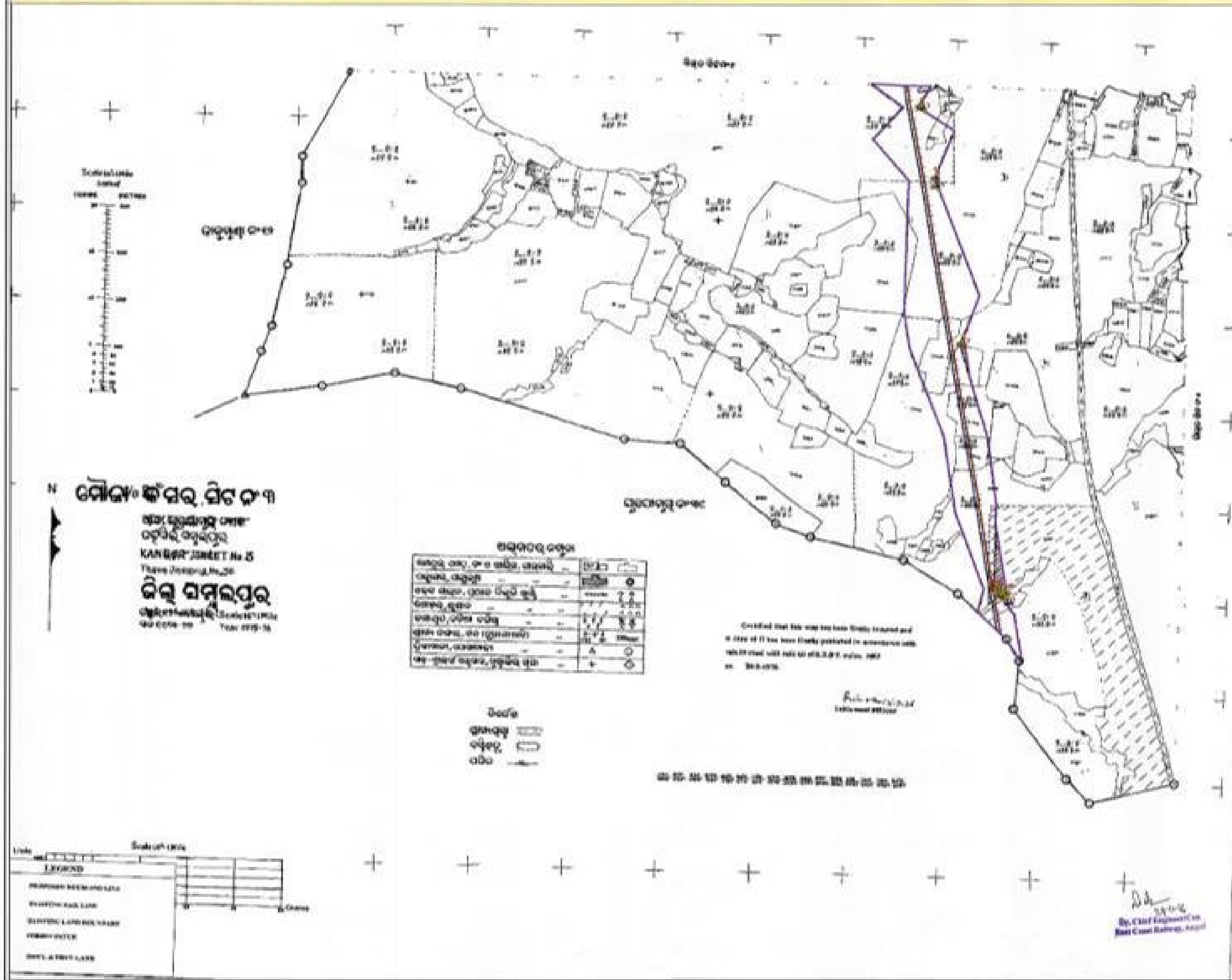
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(Dept. of Science & Technology, Govt. of Odisha)
45/48 (part), Jayadev Vihar
Bhubaneswar

Disclaimer :
Coordinates have been generated for points and pillars
within R/F area as shown by Lessee/User Agency on the ground.

**GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - KANSOR,SHEET-1 , SAMBALPUR FOREST DIVISION)**



**GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - KANSOR, SHEET - 3, SAMBALPUR FOREST DIVISION)**



Legend

-  GEO - REFERENCED POINT
 FOREST INSIDE CORRIDOR
 DOUBLING RAILWAY LINE CORRIDOR

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Index	Longitude	Latitude	Intensity	Frequency
1	100.00000000	0.00000000	0.00000000	0.00000000
2	100.00000000	0.00000000	0.00000000	0.00000000
3	100.00000000	0.00000000	0.00000000	0.00000000
4	100.00000000	0.00000000	0.00000000	0.00000000
5	100.00000000	0.00000000	0.00000000	0.00000000
6	100.00000000	0.00000000	0.00000000	0.00000000
7	100.00000000	0.00000000	0.00000000	0.00000000
8	100.00000000	0.00000000	0.00000000	0.00000000
9	100.00000000	0.00000000	0.00000000	0.00000000
10	100.00000000	0.00000000	0.00000000	0.00000000
11	100.00000000	0.00000000	0.00000000	0.00000000
12	100.00000000	0.00000000	0.00000000	0.00000000
13	100.00000000	0.00000000	0.00000000	0.00000000
14	100.00000000	0.00000000	0.00000000	0.00000000
15	100.00000000	0.00000000	0.00000000	0.00000000
16	100.00000000	0.00000000	0.00000000	0.00000000
17	100.00000000	0.00000000	0.00000000	0.00000000
18	100.00000000	0.00000000	0.00000000	0.00000000
19	100.00000000	0.00000000	0.00000000	0.00000000
20	100.00000000	0.00000000	0.00000000	0.00000000

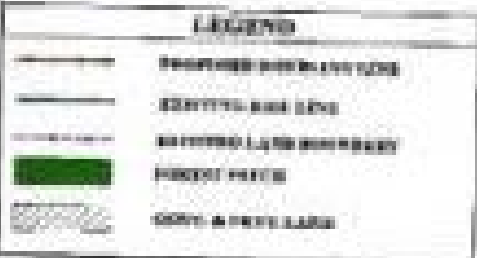
FOREST AREA WITHIN CORRIDOR

SL_NO	PLOT_NO	AREA_AC	AREA_HA
1	944	0.006	0.006
2	964	0.007	0.011
3	970	0.006	0.005
4	979	0.000	0.000
5	987	0.007	0.009
TOTAL		0.175	0.031



OSAKA SPACE APPLIED RESEARCH CENTER
(Osaka Institute of Science & Technology, Dept. of Chemical
Engineering, Suita City, Osaka 565, Japan)

(MOUZA - LANGBAHAL, SHEET - 3 , SAMBALPUR FOREST DIVISION)

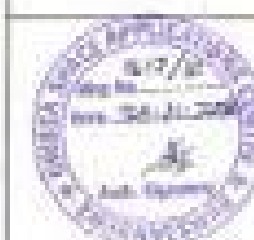


RESEARCH AND ANALYSIS

FOREST AREA WITHIN CORRIDOR

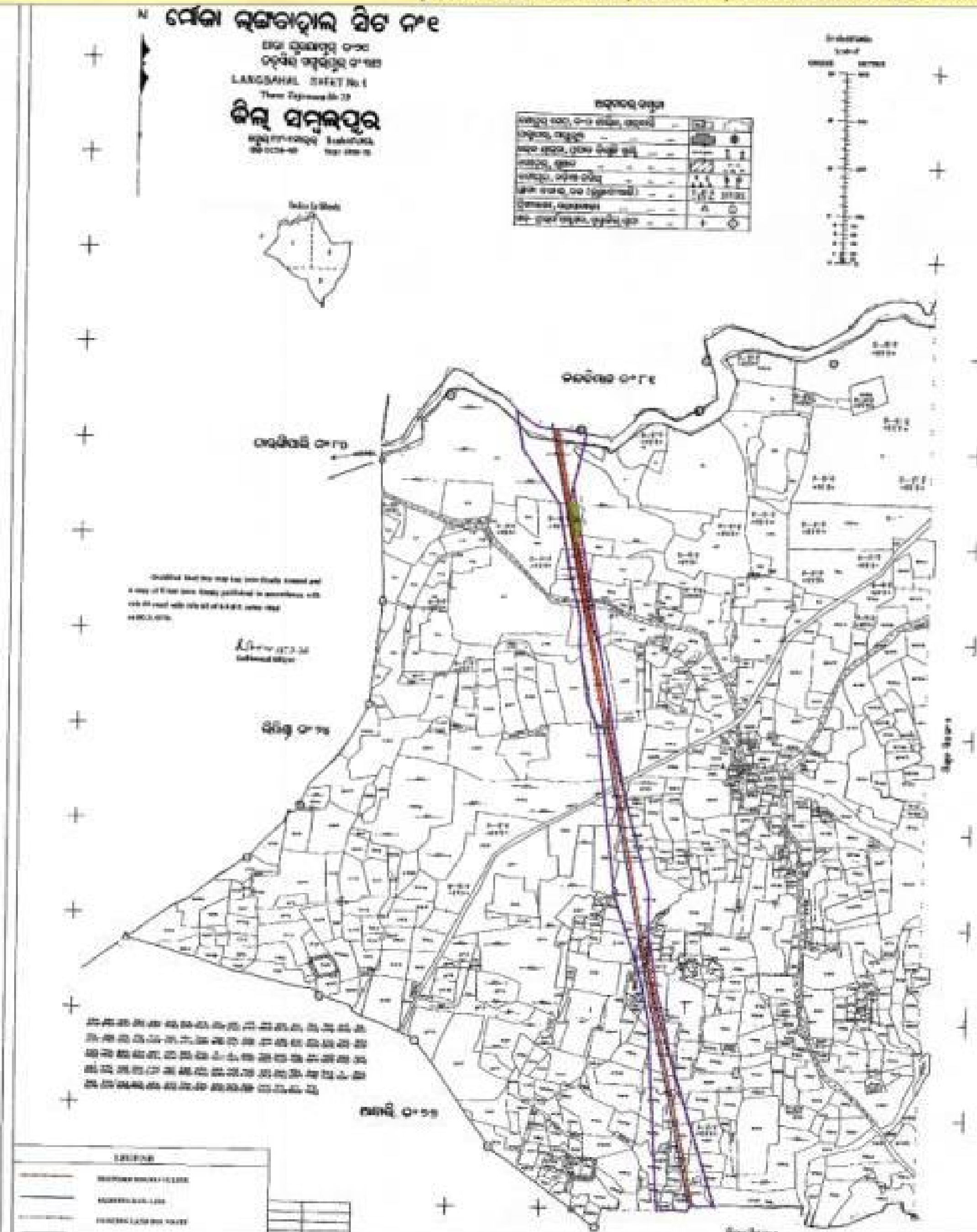
SL_NO	PLOT_NO	AREA_AC	AREA_HA
1	916	0.043	0.010
2	910	0.019	0.005
TOTAL		0.061	0.015

[Signature]
 J. Edgar Hoover



OSKISHI, SNA-DE APPLICATIONS CENTRE
(Dept. of Science & Technology, Govt. of Odisha)
Bhubaneswar, Orissa, India

GEO-REFERENCED MAP SHOWING FOREST PATCH(S) COMING WITHIN TALCHER - SAMBALPUR DOUBLING RAILWAY LINE CORRIDOR OF EAST COAST RAILWAY.
(MOUZA - LANGBAHAL, SHEET-1 , SAMBALPUR FOREST DIVISION)



Legend

-  GEO - REFERENCED POINT
 FOREST INSIDE CORRIDOR
 DOUBLING RAILWAY LINE CORRIDOR

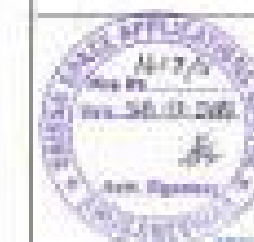
DOI: 10.1002/for

[illegible]

FOREST AREA WITHIN CORRIDOR

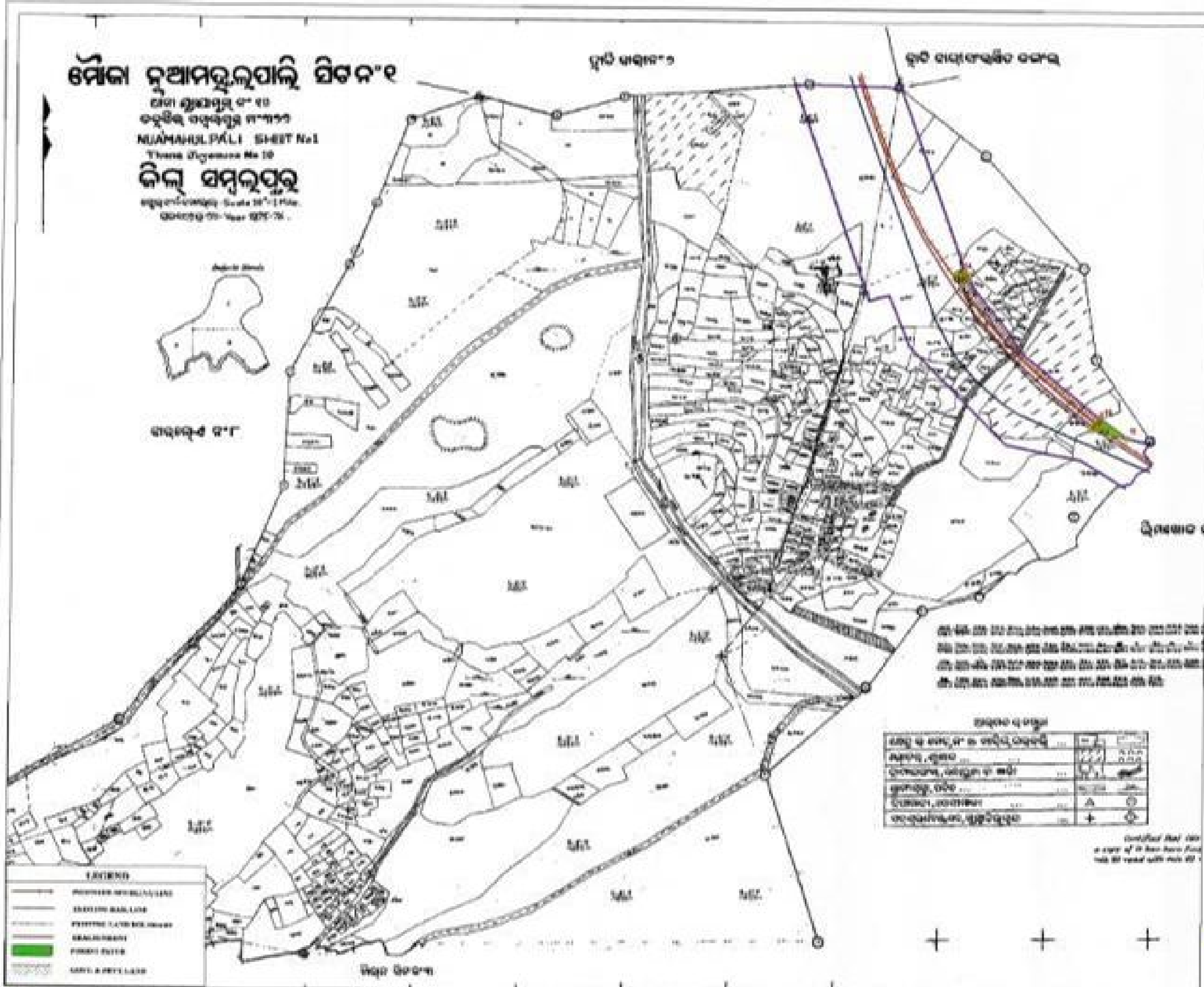
TL_NO	PLOT_NO	AREA_AC	AREA_HA
1	50	0.200	0.049

By Chief Engineer,
East Coast Railway, Secy.



CHONG-CHANG CHEN, CHIA-CHUNG CHUNG
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(MOUZA - NUAMAHULPALI, SHEET - 1, SAMBALPUR FOREST DIVISION)



Legend

-  GEO-REFERENCED POINT
 FOREST INSIDE CORRIDOR
 DOUBLING RAILWAY LINE CORRIDOR

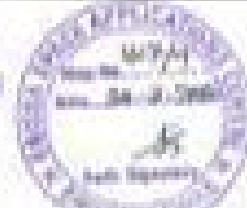
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[illegible]

FOREST AREA WITHIN CORRIDOR

SL_NO	PLOT_NO	AREA_AC	AREA_HA
1	178	0.091	0.032
2	273	0.225	0.081
TOTAL		0.316	0.113

By: Chief Engineer of the
East Coast Fisheries, Australia



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