



निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45G15

Scale 1:50,000

F45G10 (73B/10)	F45G14 (73B/14) Simdega JHARKHAND	F45H2 (73F/2)
F45G11 (73B/11)	F45G15 (73B/15) Sundargarh ORISSA	F45H3 (73F/3)
F45G12 (73B/12)	F45G16 (73B/16)	F45H4 (73F/4)

1 Gumla, JHARKHAND.
2 Ranchi, JHARKHAND.
3 Kendujhar, ORISSA.
4 Sambalpur, ORISSA.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

PRICE Rs. 100/-

CONVENTIONAL SYMBOLS

Express Highway, with toll; with bridge; with distance stone	20
Road metalled; according to importance	10
Roads double carriageway; according to importance	5
Unmetalled Road, Cart-track, Pack-track and pass, Foot-path	2
Streams, with pack in bed, unfordable, Canal	1
Dam; masonry or rock-filled, earthwork, Weir	0.5
River, dry with water channel, with island & rapids, Tidal river	0.2
Submerged rocks, Shoal, Swamps, Reeds	0.1
Wells, lined, unlined, Tube-well, Spring, Tank, perennial, dry	0.05
Embankment: road or rail; trestle, Broken ground	0.02
Railways, broad gauge; double; single with distance stone; coast	0.01
Railways, metre gauge; double; single with distance stone; coast	0.005
Mineral line or tramway, Kin, Cutting with tunnel	0.002
Contours with sub-features, Rocky slopes, Cliffs	0.001
Sand features (Mudflats, Sand-bills, permanent, Shallow, Shifting)	0.0005
Towns or Villages: inhabited, deserted, Fort	0.0002
Huts, permanent; temporary, Tower, Antiquities	0.0001
Temple, Chhatra, Church, Mosque, Idgah, Tomb, Graves	0.00005
Lighthouse, Lightship, Buoy, lighted, unlighted, Anchorage	0.00002
Mine, Vire on traffic, Grass, Scrub	0.00001
Palms; palms; other, Plantain, Coconut, Bamboo, Other trees	0.000005
Areas: cultivated, wooded, Surveyed tree	0.000002
Boundary, international	0.000001
State: demarcated, undemarcated	0.0000005
district: subdivision, taluk or Taluk, forest	0.0000002
Boundary, village: surveyed, uncoloured, village, irrigation	0.0000001
Height, triangulation station, point, approximate	0.00000005
Barometrical, geodetic, levelling, aneroid	0.00000002
Post office, Telegraph office, Overhead tank	0.00000001
Rail house or inspection, Inspectors, Circuit house, Police station	0.000000005
Camping ground, Forest, reserved, protected	0.000000002
Spaced name: administrative, locality or tribal	0.000000001
Hospital, Dispensary, Veterinary hospital	0.0000000005
Aerodrome, Helipad, Tourist site	0.0000000002
Power line: with pylons surveyed; with poles unsurveyed	0.0000000001
Hand Pump is shown thus	0.00000000005

REFERENCE

As 23 National Highway No. 23.

NOTES :-

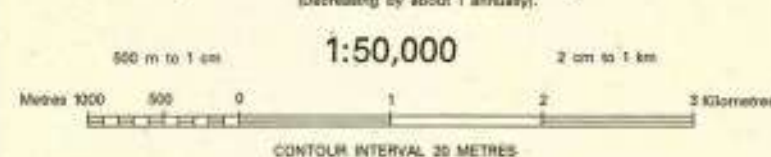
Heights are in metres and above Indian mean sea level.
Contours are approximate.
The state boundary between Jharkhand and Orissa States has been surveyed as pointed out by local officials on the ground but has not been verified by the Government concerned.
Forest boundaries have been surveyed as pointed out by the local forest officials on the ground but have not been verified by the concerned Divisional Forest Officer for the forests pertaining to the Jharkhand State.
The exterior boundaries of weak or Reserved or Protected Forests are shown by green ribbons.
A relative height (h) represents the approximate height, in metres, between the top and bottom of a steep slope.
Hand Pump is shown thus

COMPILED INDEX

A. Compiled from 1:25,000 Survey of India maps. Updated for major details from satellite imagery of 2007.
सर्वेक्षण प्रमुख (भारत)
गैल इंडिया लिमिटेड
भुवनेश्वर
G KANDHAPANI
Chief Manager (Const.)
GAIL (India) Ltd.
Bhubaneswar

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{1}{2}^\circ$ West in 2005.
(Decreasing by about 1' annually).



For further details about this map, please contact

Director

Jharkhand Geo-Spatial Data Centre

Survey of India, Danda

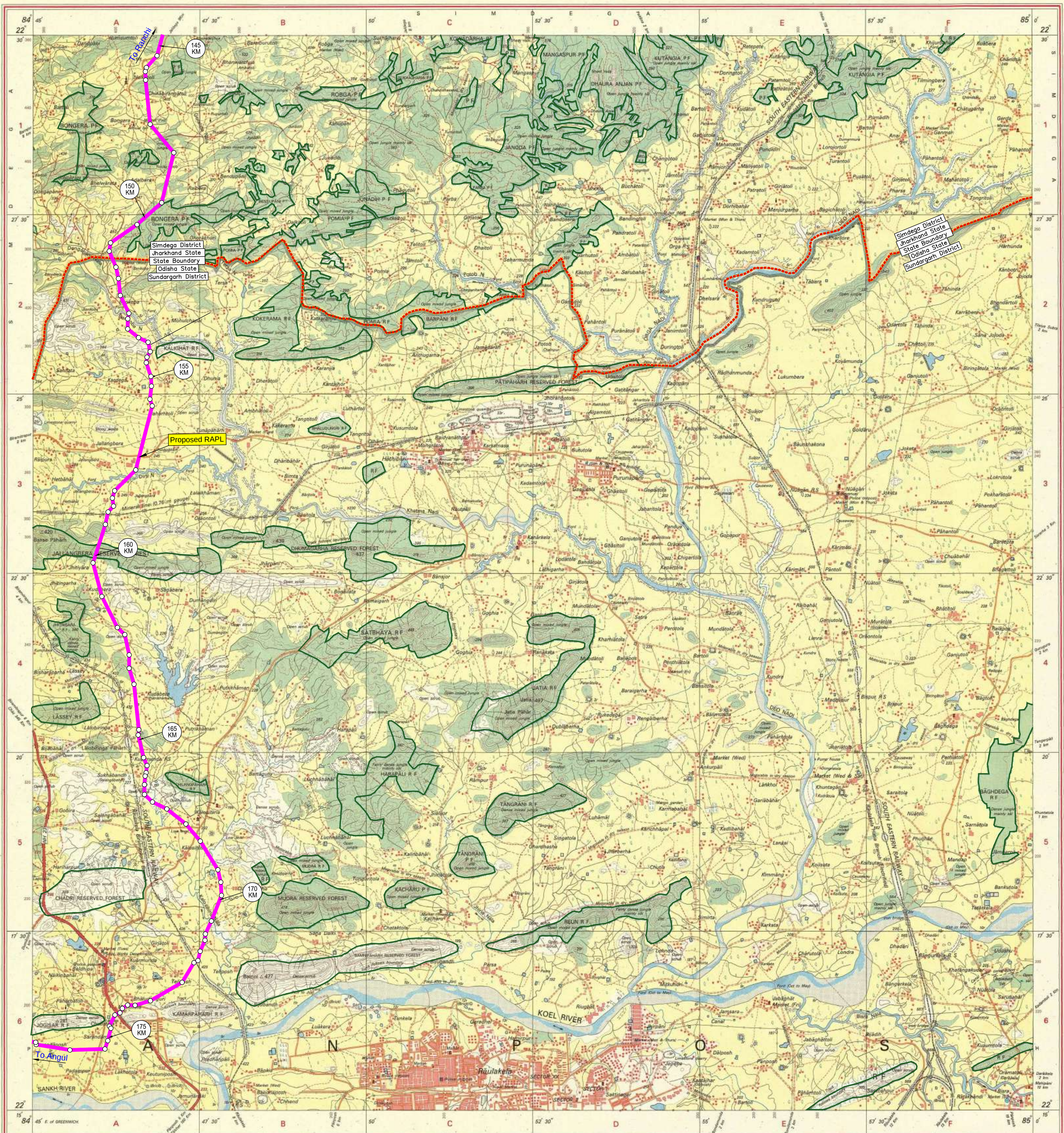
Ranchi-834002.

Fax : 0651 - 2482789

WEBSITE - www.surveyofindia.gov.in

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REG. No. B449-SPG D '09 (Jharkhand GDC-1:50,000)-1015.

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Department of Science & Technology, Government of India.

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निर्भर के लिये नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45G11

Scale 1:50,000

F45G6 (73B/6)	F45G10 (73B/10) Sundergarh JHARKHAND	F45G14 (73B/14)
F45G7 (73B/7)	F45G11 (73B/11) Sundergarh	F45G15 (73B/15)
F45G8 (73B/8)	F45G12 (73B/12)	F45G16 (73B/16)

1 Gumsli, JHARKHAND.
2 Pashchim Singhbhum, JHARKHAND.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2003.

Price : Rs. 50/-

CONVENTIONAL SYMBOLS

Express highway with toll; with bridge; with distance stone	
Roads marked according to importance	
Double double carriageway according to importance	
Unimproved road, cart-track, pack-track and pass, foot-path	
Drains; with track in bed, underdrain, Canal	
Dam; masonry or rock-filled; with spill; with sluice; with lock; with weir	
Swampy area, flood, swamp, marsh	
Well (hand, tubewell, spring, water pump, etc.)	
Drainage: canal or rail; cross, broken ground	
Railways: broad gauge; double; single with distance stone; etc.	
Railway: passenger; goods; single with distance stone; etc.	
Mineral: iron or bauxite; etc. Quarry with spoil	
Contours with spot heights; rocky slopes, cliffs	
Spot heights (Benchmarks, etc.) (Permanent) (Temporary)	
Towns or villages: inhabited; deserted; Port	
Place (Permanent) (Temporary) (Seasonal) (Nightly) (Temporary)	
Temples, Churches, Mosques, Gurdwaras, etc.	
Light houses, lighthouses, buoys, lights, navigational aids	
Mine: mine on traffic, Quarries, etc.	
Mine: polymers, other, etc. Plantations, etc. Other towns	
Areas: submersed, wooded, surveyed, etc.	
Boundary: international	
State: demarcated, undemarcated	
district: sub-division, ward or village	
Secondary, etc. (surveyed, etc.)	
Height: triangulation station; etc. (approximate)	
Bench mark: geodetic, leveling, etc.	
Post office, Telegraph office, etc. (Permanent)	
Rail station or junction (Permanent, etc.) (Seasonal)	
Camping ground, Forest reserved, etc.	
Spotted areas: administrative, etc. (Permanent)	
Maple, etc. (Permanent, etc.) (Seasonal)	
Air station, Helipad, etc.	
Power line with poles surveyed; with poles unsurveyed	

REFERENCES

NV 25 National Highway No. 25. SR South Eastern Railway.

NOTES

1. Heights are in metres and above Indian mean sea level.
2. Contours are approximate.
3. Unimproved roads and cart-tracks in this area are generally motorable in dry season.
4. The state boundary between Jharkhand and Odisha States has been surveyed as pointed out by the local officials on the ground, but has not been verified by the Government concerned.
5. The administrative boundary between Sundergarh and Bargarh Districts has been surveyed as pointed out by the local officials on the ground, but has not been verified by the District authorities concerned.
6. The information shown on this map is based on the survey of the area by the Survey of India, and is not intended to be used for any purpose other than for reference.
7. A notice height, if shown, represents the approximate height, in metres, between the top and bottom of a range of hills.
8. The actual boundaries of areas of Reserved or Protected Forests are shown by green lines.
9. The Reserved Forest/Protected Forest boundaries were surveyed as pointed out by the local forest officials on the ground, but have not been verified by the concerned Forest authorities.

COMPILED INDEX

A. Compiled from 1:50,000 Survey of India maps for major details from satellite imagery of 2002 during 2002-2003.
B. KANDHAPANI
Chief Manager (Const.)
GAIL (India) Ltd.
Bhubaneswar

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1/2° West in 2005.

(Decreasing by about 1" annually)

Scale 1:50,000
1 cm = 1 km
1 inch = 2.54 cm

CONTINENTAL INTERVAL 20 METRES

For further details about this map, please contact

Director

Jharkhand Geo-Spatial Data Centre

Survey of India, Dehradun

Ranchi-834002

Fax : 0931 - 2482795

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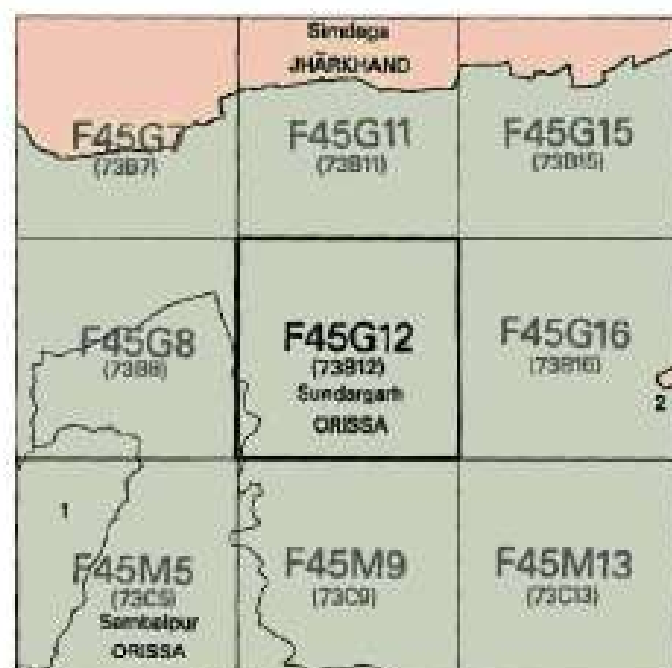


निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45G12

Scale 1:50,000



1 Jharsuguda, ORISSA.
2 Paashimi Shingbhom, JHARKHAND.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

Price : Rs. 52/-

CONVENTIONAL SYMBOLS

[illegible]

REFERENCES

DM Indian Institute of Project Management

NOTES :—

Height is in metres and above indoor means sea level.
 Contours are approximate.

The relative height, h , represents the approximate height, in metres, between the top and bottom of a steep slope.

The elongated heights and contours in this sheet have not been adjusted to the spot-levelled British contours and are only not so strictly in accordance with them.

Important buildings are shown in black.

The common locations of the national forests between Cheshire, RP & Jarrow RP and Cheshire RP & Telford, RP is apparent C/A, S and D/V have been chosen because of view of reliable information.

Taxidermy shown in this area usually contain water from July to December.

Hard parts is shown that

COMPILATION INDEX

A - Compiled from 1-25,000 during 1989-93
Updated for major details during 1994-04

Projection – UTM Datum – WGS

Magnetic Variation from True North about $\frac{1}{2}^{\circ}$ West in 2
(Decreasing by $1'$ annually).

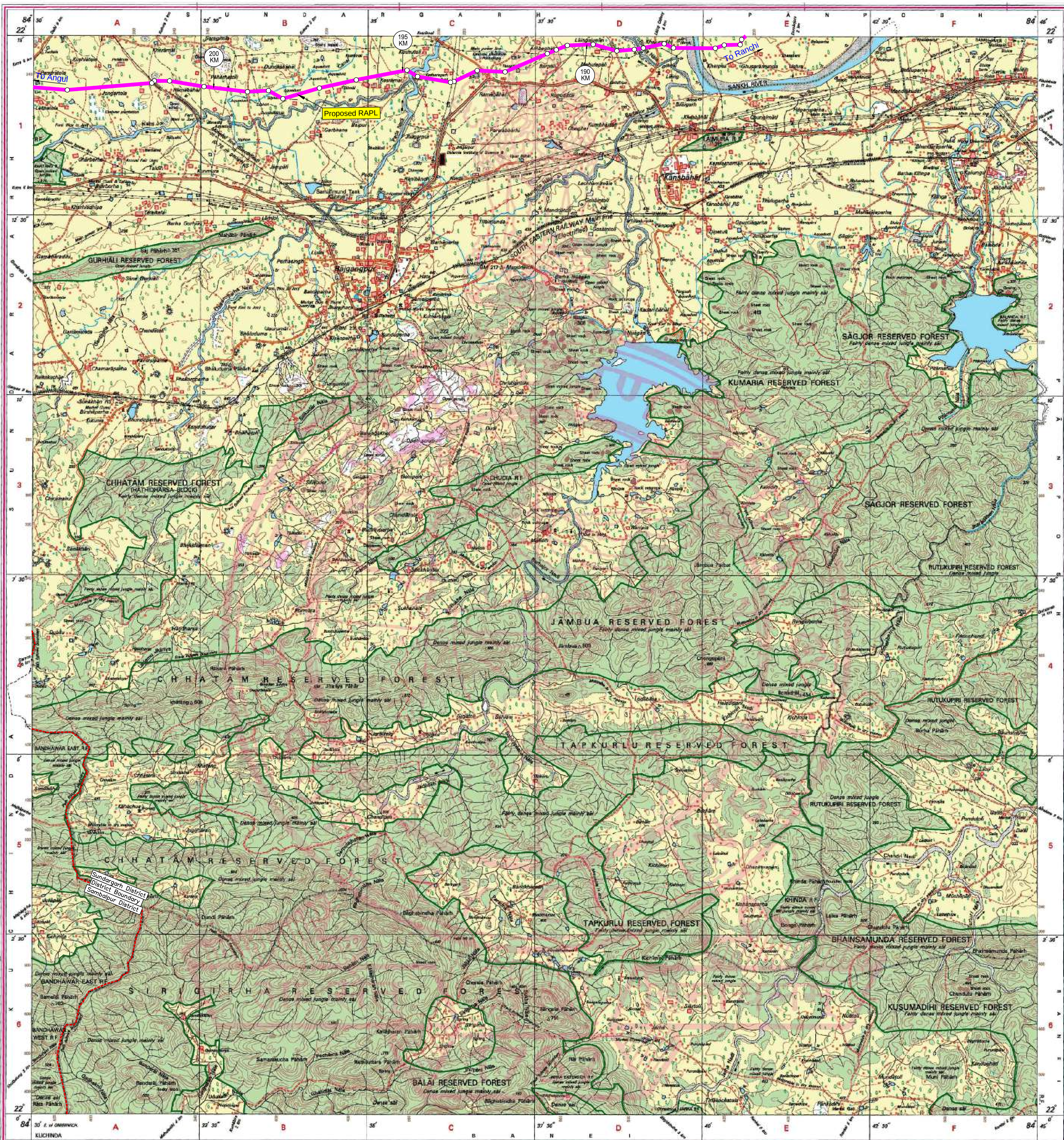
Scale: 1:50,000
 900 m to 1 km
 2 cm to 1 km
 Metres 1000 800 0 1 2 Kilometres
 Contour Interval: 20 Metres

For further details about this event, please contact:

Director
Orissa Geo-Spatial Data Centre
Survey of India
Survey Bhawan, PO – R R Laboratory
Bhubaneswar-751013.
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REG. NO. 8403-SPG 1300 (CIVIL) 000-1-000-000-10101

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Survey of India, Hitechbarkala Estate, Post Box No. 37, Dehra Dun-248001 (Uttarākhānd).
Department of Science & Technology, Government of India.

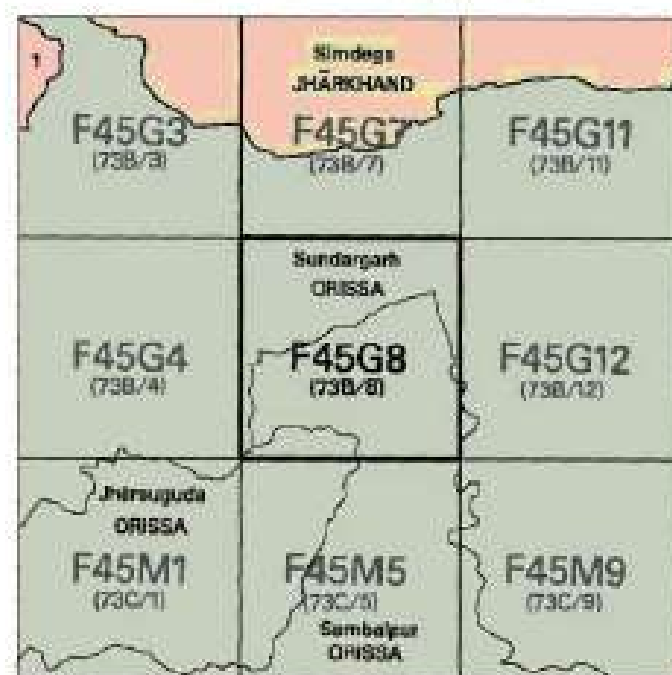
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निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45G8

Scale 1:50,000



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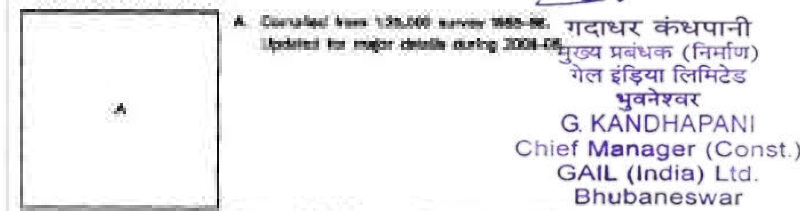
REFERENCES

REFERENCES

NOTES :-

[illegible]

COMPILATION INDEX



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{1}{2}^{\circ}$ West in 2005.

1:50,000

CONTINUE INTERVAL BY INSTEAD

Das Buch ist gratis, aber die CD kostet etwas.

Director

Grass Geo-Spatial Data Centre

Survey of India

Survey Bhawan, PO – R R Laboratory

Elhachem@shaw-751073.

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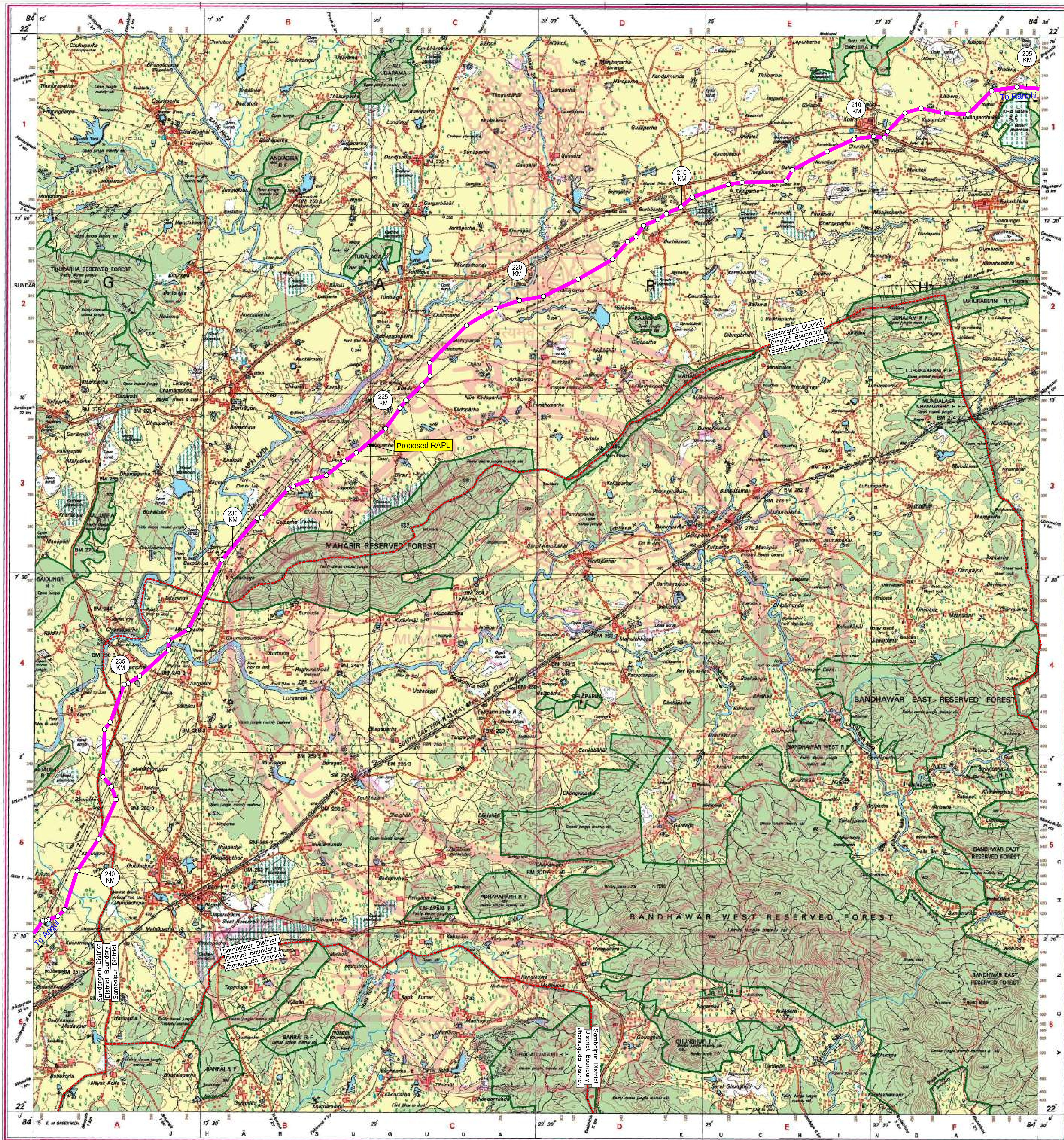
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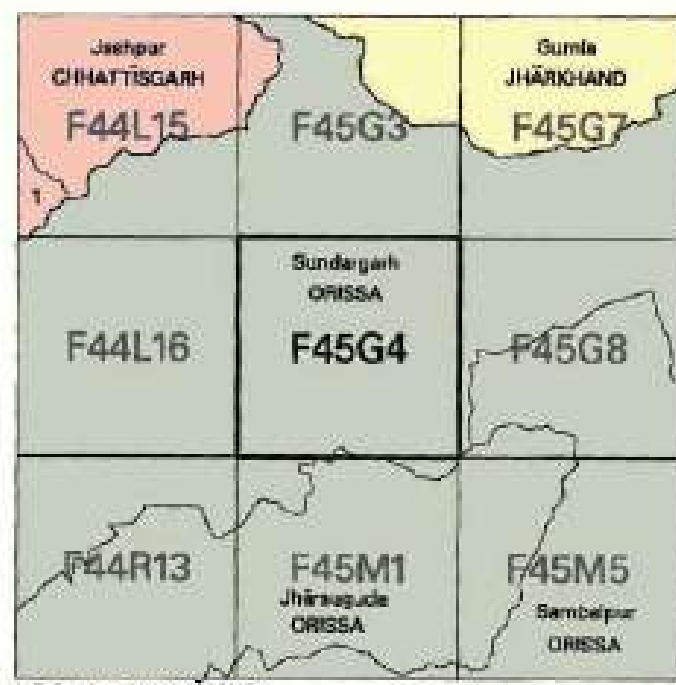


नियत के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45G4

Scale 1:50,000



भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2009

Price : Rs. 80/-

CONVENTIONAL SYMBOLS



REFERENCE

Notes:
1. Heights are in metres and above Indian mean sea level.
2. Contours are approximate.
3. A yellow height, i.e., represents the approximate height, in metres, between the top and bottom of a slope.
4. The integrated heights and contours in this sheet have not been adjusted to the heights of the world-mean datum and may not be strictly in accordance with them.
5. The official boundary between Jharkhand and Odisha has been shown in this sheet as per the information provided in the Government of Odisha Gazette Notification, 1999 but has not been substantiated by the concerned authorities.
6. Towns shown in this sheet are strictly correct as per the 1:50,000 scale.
7. All unclassified roads and cart-roads, in this sheet, are indicated and feasible in any season respectively. Important buildings are shown in black with names.
8. Road names in this sheet are as per the 1:50,000 scale.

COMPILED INDEX
A. Compiled from 1:50,000 maps (1989-99)
Updated for major roads (2009)
गणित विभाग
भुवनेश्वर
G. KANDHAPANI
Chief Manager (Const.)
GAIL (India) Ltd.
Bhubaneswar

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1° West in 2005.
(Increasing by 1° annually)

1:50,000

Scale bar: 0 to 5 Kilometres
CONTOUR INTERVAL 20 METRES

For further details about this map, please contact:

Director

Orissa Geo-Spatial Data Centre

Survey of India

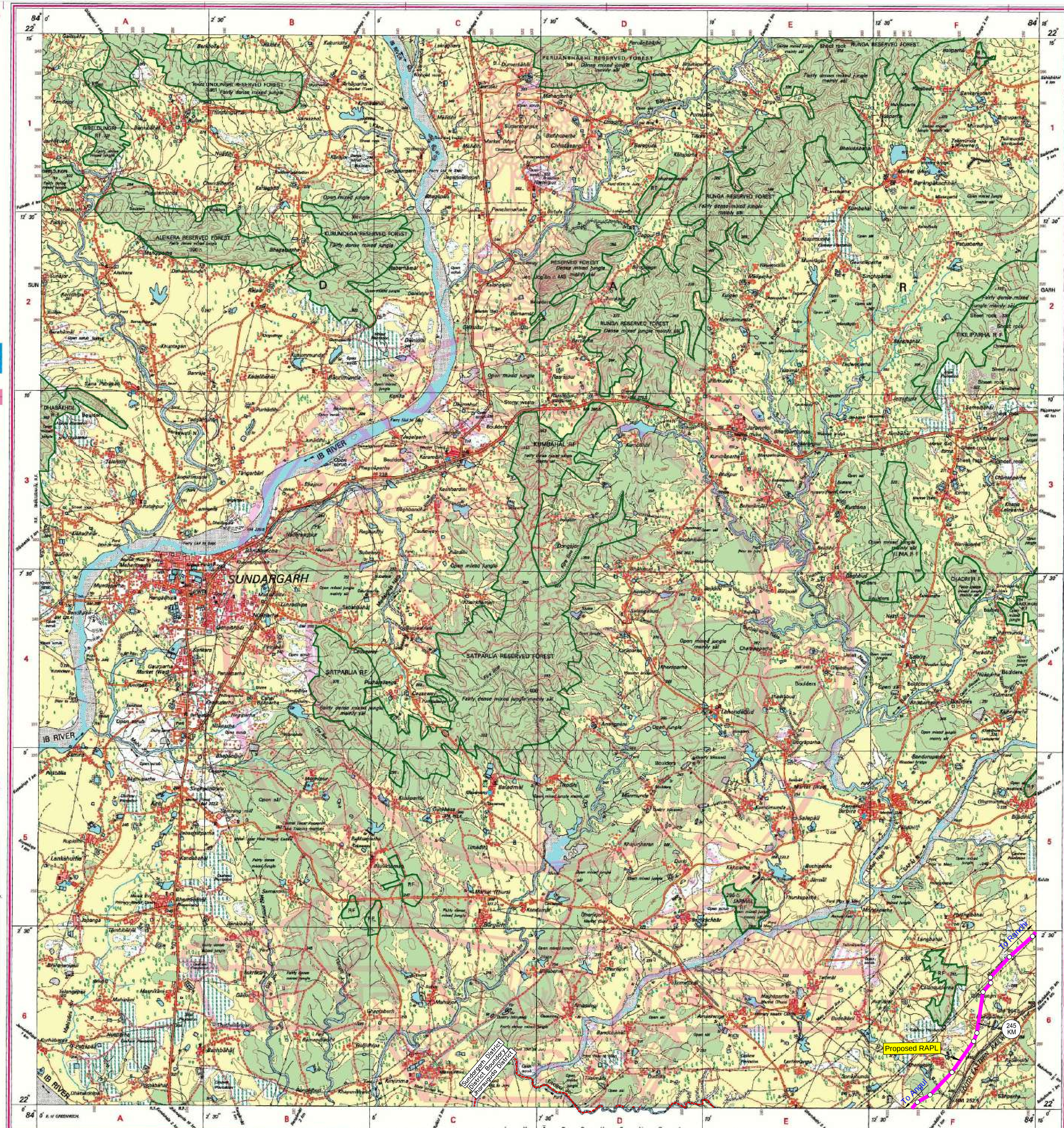
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Sundargarh District
District Boundary
Jharkhand District

Proposed RAPL

245 KM

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Department of Science & Technology, Government of India.

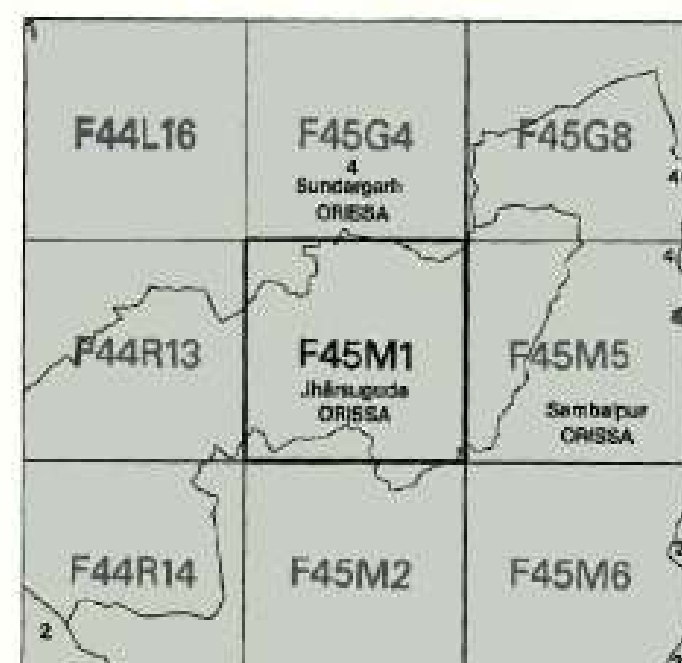
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निर्यात के लिए नहीं NOT FOR EXPORT

**OPEN SERIES
MAP**

No. F45M1

Scale 1:50,000



1 Raigarh, CHHATTISGARH.	3 Deogarh, ORISSA.
2 Bargarh, ORISSA.	

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009

Price : Rs. 50/-

CONVENTIONAL SYMBOLS

[illegible]

REFERENCES

REFERENCES

AM 200 National Highway No. 200. (AM) Public Works Department.

ANC Primary Health Centre.

NOTES:

heights are in meters and above Indian mean sea level.

Contours are approximated.

A relative height, h_r , represents the approximate height, in meters, between the top and bottom of the steep slope.

The substation boundary between Jhalandagar and Samalpur Subdivisions has been assigned an arbitrary boundary as per the information provided in the Census Statistics, 1963 of Government of India.

The topographic features and contours in this sheet have not been adjusted to the heights of the aforementioned contour-maps and may not be strictly in accordance with them.

Thick, brown clay in this area usually remains water free from July to December.

Unsettled roads and tracks in this sheet are generally marked in dry season.

COMPILED BY: [REDACTED]

A. Compiled from IISX300 survey 1985-86
 Update for major dams during 2000-04

गणधर कंधपानी
 मुख्य प्रबंधक (निर्माण)
 गेल इंडिया लिमिटेड
 भुवनेश्वर
 G. KANDHAPANI
 Chief Manager (Cons)
 GAIL (India) Ltd.
 Bhubaneswar

Projection – UTM Datum – WGS 84

Magnetic Variation from True North about $\frac{1}{4}^{\circ}$ West in 2005.

1:50,000

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99

For further details about this map, please contact:

Orissa Geo-Spatial Data Centre

Survey of India

Shubhashwar.

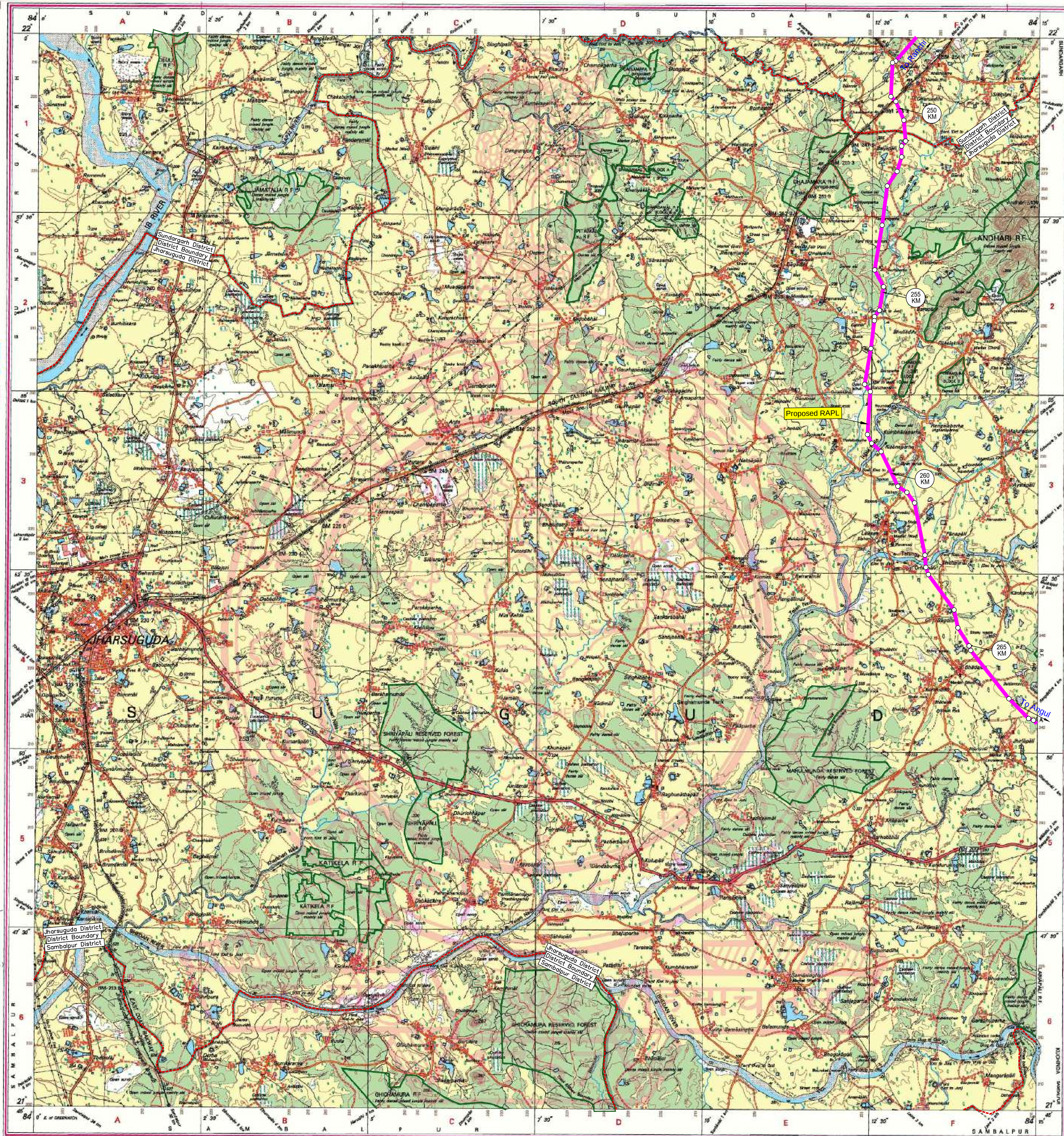
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