

निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. F45A14

Scale 1:50,000

Drg. No. - 1 of 4

भारतीय सर्वेक्षण विभाग
SURVEY OF INDIA

1st Edition 2009.
Price : Rs. 50/-

CONVENTIONAL SYMBOLS

Express Highway: with toll, with bridge, with distance stone		7/50
Roads metalled: according to importance		
Roads double carriageway: according to importance		
Unmetalled Road, Cart-track, Rickshaw-way with pass, Foot-path		
Damways: with track in bed: unforded, Canal		
Dams: masonry or rock-filled: masonry, Wall		
Solventracks: Shal, Steep, Tanks: perennial, dry		
Wells: lined, unlined: Tubewell, Spring, Tanks: perennial, dry		
Embankments: road or rail, bank, Broken ground		
Railways, broad gauge: double, single with station under control		
Railway-signal gauges: double, single with distance stone		
Mineral line or railway: Kink, Cutting with tunnel		
Contours with sea features: Rocky slopes, Cliff		
Spot heights: (Hill, Obstruction, pavement), (Waterlevel/Hill)		
Towers or pylons: telegraph, Aerialised, Fan		
Huts, pavements, temporary, Tower, Antennae		
Temple, Chhatra, Church, Mosque, Ghat, Town, Village		
Lighthouse, Lightship, Buoy, buoy-light, wharfed, Anchorage		
Palm, Vine on trees, Grass, Tree		
Palm, palm-tree, other: Portulac, Conifer, Bamboo, Other trees		
Areas cultivated, wooded: Surveyed tree		
Boundary, international		
- state demarcated, undemarcated		
- district, subdivision, taluk or tehsil, forest		
Boundary, Pillars: surveyed, unsurveyed		
Heights, triangulation station: point, approximate		
Bench-mark: geodetic; levelling, contour		
Post office, Telegraph office, Overland tank		
Rest house or Inspection bungalow, Civil Nodal Police station		
Camping ground, Forest: reserved, protected		
Spatial names: administrative, locality or other		
Nautical Diagram, Vesselary Hospital/Casualty		
Aeronautics: Helipad, Tower site		
Power line, with pylons, transmission, with poles (overhead)		

REFERENCES

P.W.D. Public Works Department. NH-75 National Highway No. 75.

NOTES :-

- Height are in metres and above Indian mean sea level.
- Contours are appropriate.
- Unmetalled roads and cart-tracks in this sheet are generally motorable in dry season.
- The common boundaries of some Protected Forests have not been shown for want of reliable information.
- The triangulated triangles and contours in this sheet have not been adjusted to the heights of the well located bench-marks and may not be strictly in accordance with them.
- The administrative boundaries in this sheet have been surveyed as pointed out by the local officials on the ground, but have not been verified by the concerned authorities.
- The Maritime shore boundaries along roads and railways are shown in chain type, e.g., "x" where x indicates numbers are shown in capital type, e.g., "x".
- x relative heights, i.e., represents the approximate height, in metres, between the top and bottom of a steep slope.
- The estate boundaries of areas of Reserved or Protected Forests are shown by green ribbons.

COMPILED INDEX

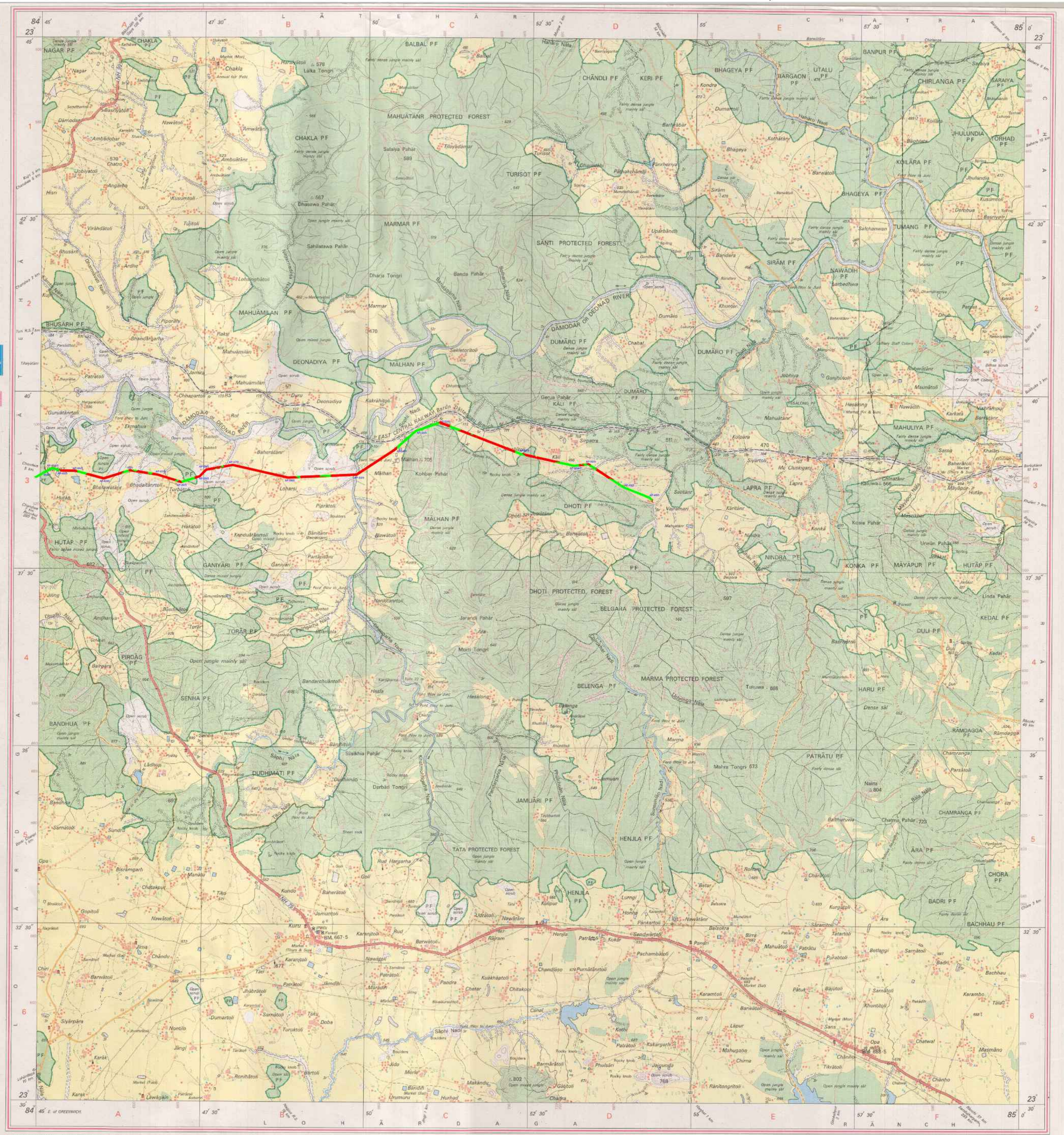
A Revised during 1978-79. Updated for major details during 1982-83 and satellite imagery of 2007 during 2008-09.

Projection – UTM Datum – WGS 84

Magnetic Variation from True North about $\frac{1}{4}^{\circ}$ West in 2005.
(Decreasing by about 1' annually).

1:50,000

Metres 1000 500 250 125 62.5 31.25 15.625 7.8125 3.90625 1.953125 0.9765625 0.48828125 0.244140625 0.1220703125 0.06103515625 0.030517578125 0.0152587890625 0.00762939453125 0.003814697265625 0.0019073486328125 0.00095367431640625 0.000476837158203125 0.0002384185791015625 0.00011920928955078125 0.000059604644775390625 0.0000298023223876953125 0.00001490116119384765625 0.000007450580596923828125 0.0000037252902984619140625 0.00000186264514923095703125 0.000000931322574615478515625 0.0000004656612873077392578125 0.00000023283064365386962890625 0.000000116415321826934814453125 0.0000000582076609134674072265625 0.00000002910383045673370361328125 0.000000014551915228366851806640625 0.0000000072759576141834259033203125 0.00000000363797880709171295166015625 0.000000001818989403545856475830078125 0.0000000009094947017729282379150390625 0.00000000045474735088646411895751953125 0.000000000227373675443232059478759765625 0.0000000001136868377216160297393798828125 0.00000000005684341886080801486968994140625 0.000000000028421709430404007434844970703125 0.0000000000142108547152020037174224853515625 0.00000000000710542735760100185871124267578125 0.000000000003552713678800500929355621337890625 0.0000000000017763568394002500461778106689453125 0.00000000000088817841970012502308890533447265625 0.000000000000444089209850062511514442717236328125 0.0000000000002220446049250312557572213586181640625 0.0000000000001110223024625157878861067931088203125 0.00000000000005551115123125789394305339655441015625 0.00000000000002775557561562894697152669827705078125 0.000000000000013877787807814473485763349138525390625 0.0000000000000069388939039072367428816



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Department of Science & Technology, Government of India.

S. K. Shashi / एस. के. शशि
 (JCP) / उप महाप्रबंधक (जेसीपी)
 POWERGRID / पावरग्रिड
 Ranchi / राँची

Topo Location of 400 KV D/C PATRATU LATEHAR Transmission Line, Latehar Division.



निर्वात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. F45A10

Scale 1:50,000



Dr. No. - 2 of 4

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

Price : Rs. 50/-

CONVENTIONAL SYMBOLS



REFERENCES

NIT 70 National H.C. No. 70 PWD Public Works Department.

NOTES

Heights are in meters and above Indian mean sea level.
Contours are approximate.
Towns shown in this map usually contain water from July to October.
The common boundaries of some Reserved and Protected Forests have not been shown for want of reliable information.
The kilometre stone numbers along roads and the railway are shown in short type e.g. '5' whereas mileposts are shown in upright type e.g. '5'.
The triangulation heights and contours in this sheet have not been adjusted to the heights of the spirit-levelled bench marks and may not be exactly in accordance with them.
A relative height, h, represents the approximate height, in metres, between the top and bottom of a steep slope.
The exterior boundaries of areas of Reserved or Protected Forests are shown by green boards.

COMPILED INDEX



Projection - UTM Datum - WGS 84

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

Decreasing by about 1' annually.

1:50,000

500 m to 1 cm 2 cm to 1 km

CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

Director

Jharkhand Geo-Spatial Data Centre

Survey of India, Dorenda

Ranchi-834002.

Fax : 0661 - 2482789

WEBSITE - www.surveyofindia.gov.in

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REG. No. 8425-SPC D-09 (Jharkhand GDC-1:50,000-1:915)

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POWERGRID / पावरग्रिड
Ranchi / राँची

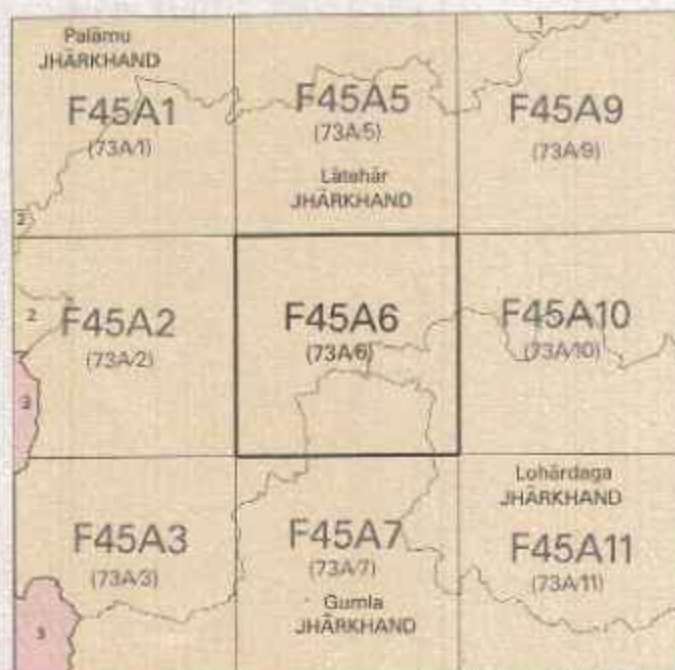
Topo Location of 400 KV D/C PATRATU LATEHAR Transmission Line, Latehar Division.



OPEN SERIES
MAP

No. F45A6

Scale 1:50,000



Dr. No. - 3 of 4

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1st Edition 2009

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CONVENTIONAL SYMBOLS



REFERENCES

PRD Public Works Department

NOTES

Heights are in metres and above Indian mean sea level.
Contours are approximate.
The stippled heights and contours in this sheet have not been adjusted to the heights of the spot heights bench marks and may not be strictly in accordance with them.
The magnetic variation from true north is about 1° 30' W. in 2006, decreasing by about 1' annually.
Wherever reference is made to the Survey of India, it is to the Survey of India, Dehra Dun.
The names of the places, towns, villages, etc., are given in the original script, if available, and in English, if not.
A portion of National Highway No. 25 passes through the north-east corner of this sheet.
The names of the places, towns, villages, etc., are given in the original script, if available, and in English, if not.
The names of the places, towns, villages, etc., are given in the original script, if available, and in English, if not.
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COMPILED INDEX



Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1° 30' W. in 2006, decreasing by about 1' annually.

Scale 1:50,000



CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

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DGM (JCP) / उप महाप्रबंधक (जेसीपी)
POWERGRID / पावरग्रिड
Ranchi / रांची

Topo Location of 400 KV D/C PATRATU LATEHAR Transmission Line, Latehar Division.



निर्यात के लिये नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No.F45A5

Scale 1:50,000

G45S4	G45S8	G45S12
F45A1	F45A5	F45A9
F45A2	F45A6	F45A10

1 Surguja, CHHATTISGARH. 2 Garhwa, JHARKHAND.

Drq. No. - 4 of 4

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA
1st Edition 2009. Price : Rs. 50 /-

CONVENTIONAL SYMBOLS

Express highway, with toll, with bridge, with distance stone	
Road, metalled, according to importance	
Road, double carriageway, according to importance	
Unmetalled road, Cam-track, Pack-track with pass, Foot-path	
Streams, with track in bed, undefined, Canal	
Dam, masonry or rock-filled, earthwork, Wall	
River, dry with water channel, with island & rocks, Tidal river	
Submerged rocks, Shoal, Swamp, Reeds	
Water, fresh, salted, Tidal, well, Spring, Tank, reservoir, etc.	
Embankments, road or rail, bank, broken ground	
Railways, broad gauge, double, single with station, under construction	
Railways, other gauges, double, single with distance stone, etc.	
Mineral line or tramway, Kin, Cutting with tunnel	
Contours with sub-features, Rocky slopes, Cliffs	
Sand features, (Mud, Sand, Mounds, etc.) (Dunes, etc.)	
Towns or Villages, inhabited, deserted, Fort	
Huts, permanent, temporary, Town, Antiquities	
Temple, Chhatra, Church, Mosque, Light, Tomb, Shrine	
Lighthouses, Lightships, Buoy, lighted, unlighted, Anchorage	
Mine, Veta on trellis, Grass, Scrub	
Palms, palmry, other, Plantain, Coconut, Bamboo, Other trees	
Arrears cultivated, wooded, Surveyed area	
Boundary, International	
State, demarcated, undemarcated	
District, subdivision, taluk or sub-division	
Boundary pillars, surveyed, uncoloured, village inflection	
Height, triangulation station, point, approximate	
Beach, shingle, pebbles, sand, coral	
Post office, Telegraph office, Outpost, link	
Rest house or inspection bungalow, Circuit house, Police station	
Camping ground, Flower, reserved, protected	
Speedometer, administrative, locality or tribal	
Hospital, Dispensary, Veterinary hospital	
Airplane, Helipad, Tourist site	
Power line, with pylons surveyed, with poles unsurveyed	

REFERENCES

800 Block Development Office. NW 35 National Highway No. 75.

NOTES

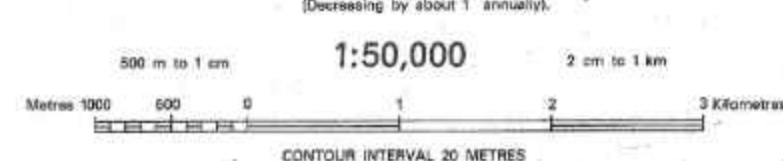
Heights are in metres and above Indian mean sea level.
Contours are appropriate.
Tanks shown dry, in this area usually contain water from July to December.
A relative height, Δ , represents the approximate height, in metres, between the top and bottom of a steep slope.
The district boundary between Latehar and Palamu Districts has been surveyed as per the order of the local officials on the ground, but has not been verified by the District authorities.
Forest boundaries have not been shown for want of reliable information.
The kilometre stone numbers along roads and the railway are shown in black type, e.g., 5, 5' whereas mile stone numbers are shown in upright type, e.g., 5.

COMPILATION INDEX

A. Compiled from 1:25,000 Survey 1978-80. Updated for major details during 2004-05.

Projection - UTM Datum - WGS 84

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

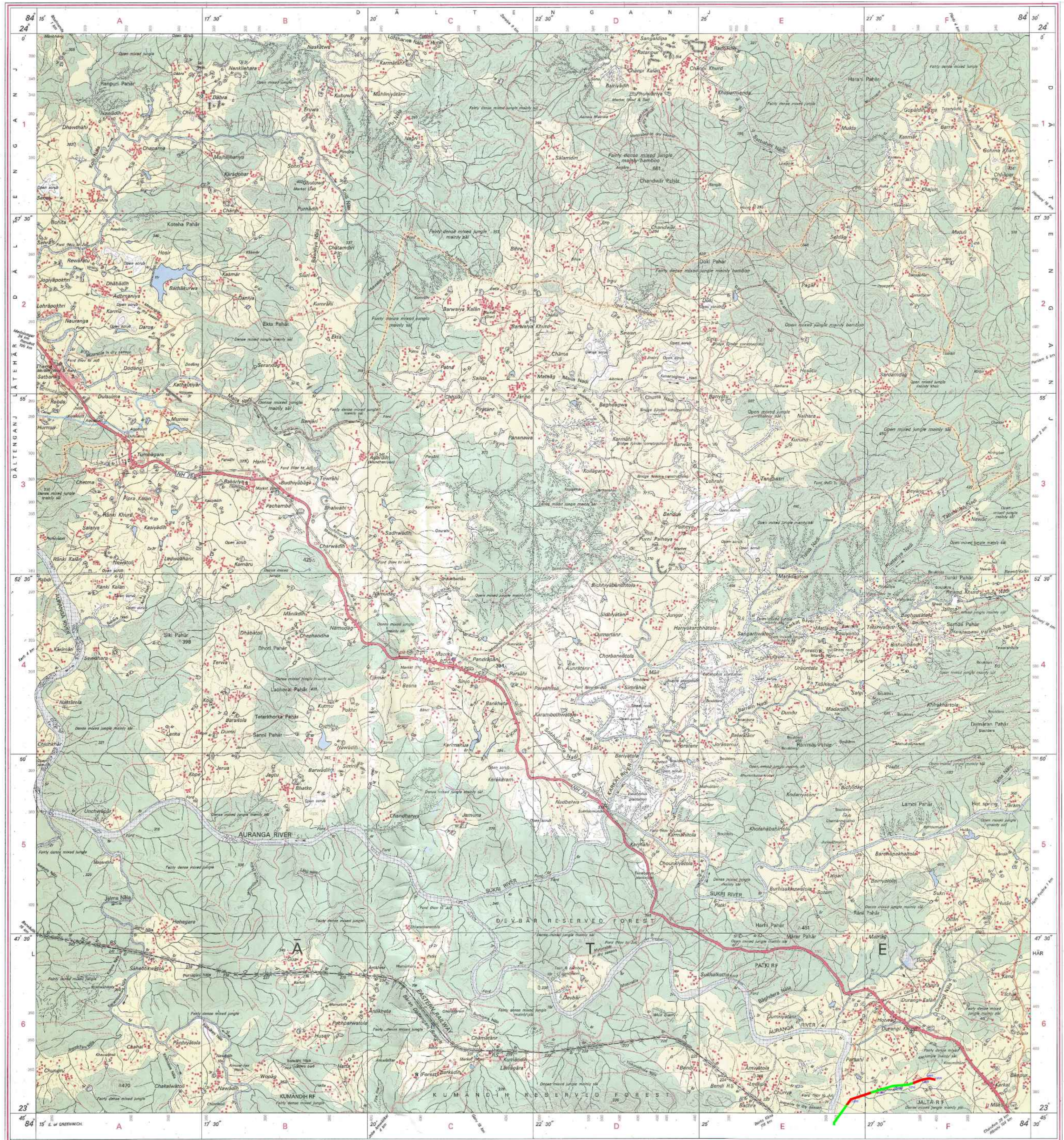


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REG. No. B/54-SPS D/99 (Jharkhand) GDC-1:50,000-1015.

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