निर्यात के लिये नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. F45A13

Scale 1:50,000

G45S12	G45S16 Chatra JHARKHAND	G45T4
F45A9 Latehar JHARKHAND	F45A13	F45B1 Hazaribag JHARKHAND
F45A10 Lohardaga JHARKHAND	F45A14	F45B2 Giridih JHARKHAND

1 Palamu, JHARKHAND.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

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

CONVENTIONAL SYMBOLS

Expressway, highway: with toll; with bridge; with distance stone
Roads, metalled: according to importance
Roads, double carriageway: according to importance
Unmetalled road: Cart-track; Pack-track; with pass; Foot-path
Streams: with mark in bed; undefined; Canal
Dams: masonry or rock-filled; earthwork; Weir
River: dry; with water channel; with island & rocks; Tidal river
Submerged rocks; Dhow; Swamp; Reeds
Wells: lined; unlined; Tube-well; Spring; Tanks: perennial; dry
Cutting: metalled; road or rail; rank; Broken ground
Railways, broad gauge: double; single with station; under construction
Railways, other gauges: double; single with distance stone; etc.
Mineral line or tramway; Kiln; Cutting with tunnel
Contours with sub-features: Rocky slopes; Cliffs
Sand features: Dune; Sand hills (permanent); Shifting sand
Towns or villages: inhabited; deserted; Fort
Huts: permanent; temporary; Tower; Antiquities
Temple; Chhatri; Church; Mosque; Idgah; Tomb; Graves
Lighthouse; Lightship; Beacon: lighted; unlighted; Beetlenuts
Misc. Vine on trellis; Grass; Gorse
Palms: palmyra; other; Mangrove; Conifer; Bamboo; Other trees
Arrow: cultivated; wooded; Surveyed tree
Boundary: international
state: demarcated; undemarcated
district; subdivision; tehsil or tluk; forest
Boundary pillars: surveyed; unsurveyed; village trijunction
Heights: triangulated station; point; approximate ... 206 ... 200 ... 202
Bench-mark: geodetic; tertiary; canal ... BM 63·3 ... BM 62·3
Post office; Telegraph office; Overhead wire
Rest house or inspection bungalow; Circuit house; Forest station
Camping ground; Forest; reserved; protected ... CG ... RF ... PF
Special names: administration; locality or other ... KIKRI ... NAGA
Hospital; Dispensary; Veterinary hospital
Aerodrome; Heliport; Tourist site
Power line: with pylons surveyed; with poles unsurveyed

REFERENCE

NH 28 National Highway No. 99

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
Terrain shown only, in this area usually remains water from July to December.
Unmetalled roads and cart-tracks in this sheet are generally trafficable in dry seasons.
The common boundaries of the Protected Forests at some places in this sheet have not been shown for want of reliable information.
A relative height, (R), represents the approximate height, in metres, between the top and bottom of steep slope.
The exterior boundaries of areas of Reserved or Protected Forests are shown by green chards.
The kilometre stone numbers along roads are shown in slant type, e.g. 4 whereas milestone numbers are shown in upright type, e.g. 5 .

COMPILATION INDEX

A. Surveyed during 1976-79. Updated for major details during 2004-06.

Projection – UTM Datum – WGS 84

Magnetic Variation from True North about ½° West in 2005. Decreasing by about 1' annually.

1:50,000

500 m to 1 cm 2 cm to 1 km

Metres 500 250 0 1 2 3 Kilometres

CONTOUR INTERVAL 20 METRES

For further details about this map, please contact
Director
'Jharkhand Geo-Spatial Data Centre'
Survey of India, Doranda
Ranchi - 834002.
Fax : 0651 - 2462789

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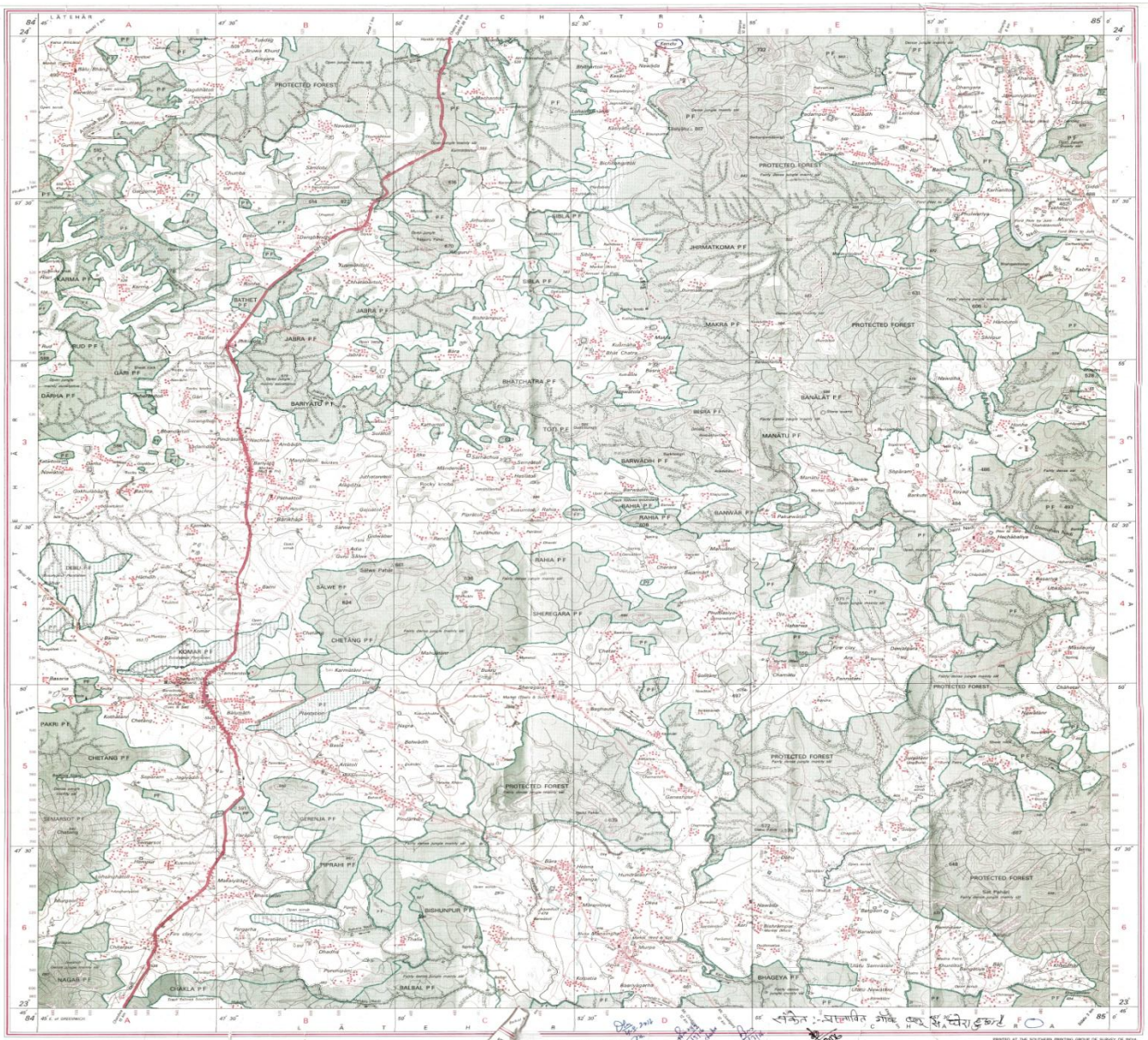

REG. No. 6194-SPC, D '09 (Jharkhand GOC-10,000)-10-15

'मानचित्रकार के निदेशन में प्रकाशित,'
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निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. G45S16

Scale 1:50,000

G45S11	G45S15 (Gaya BIHAR)	G45T3
G45S12	G45S16 (Chatra JHARKHAND)	G45T4
F45A9	F45A13	F45B1 (Latehar JHARKHAND; Hazaribag JHARKHAND)

1 Kodarma, JHARKHAND. 2 Palamu, JHARKHAND.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

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CONVENTIONAL SYMBOLS

Express highway: with toll; with bridge; with distance stone
Roads, metalled according to importance
Roads, double carriageway: according to importance
Unmetalled road: Cart-track, Pack-track, with pass, Foot-path
Streams: with bank in lead, undefined, Canal
Dams: masonry or rock-filled; earthwork; Weir
River: dry; with water (narrow); with island & rocks; Tidal river
Submerged rocks, Shoal, Swamp, Reeds
Wells: lined; artesian, Tube-well; Spring; Tanks (perennial; dry)
Embankments: road or rail; tank; Broken ground
Railways, broad gauge: electric, single with stations under construction
Railways, other gauges: electric, single with distance stone; dis
Mineral line or tramway; Kiln; Cutting with tunnel
Contours with sub-features; Rocky slopes; Cliffs
Solid features: (Pillar,Cairn,Beacon-hills (permanent); (Dolmen,Menhir)
Ruins or villages: inhabited, deserted; Fort
Huts: permanent, temporary; Tower; Antiquities
Temple; Church, Church, Mosque; Dgah; Tomb; Grave
Lighthouse; Lightship; Buoy; lighted, unlighted; Anchorage
Mine; Kiln or Knife; Glass; Scale
Palms: palmyra; other (Plantain, Conifer, Bamboo; Other trees
Areas: cultivated; wooded; Surveyed tree
Boundary: International
" state: demarcated; undemarcated
" district, subdivision, tahsil or Gram, forest
Revolvery pillars: surveyed, unsurveyed; village triangulation
Heights: triangulated station; point approximate 290 200 200
Bench-mark: geodetic; tertiary; canal BM 63.3 BM 63.3
Post office; Telegraph office; Overhead tank
Rest house or inspection bungalow; Circuit house; Police station
Camping ground; Forest reserved, protected CG RF PF
Special names: administrative; locality or tribal KIKRI NAGA
Hospital; Dispensary; Veterinary hospital
Aerodrome; Airfield; Tourist site
Power line: with pylons surveyed; with poles unsurveyed

REFERENCE

NH 80 National Highway No. 80.

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
Tanks shown dry, in this area, usually contain water from July to March.
Roads shown in red are those of classes C, 1, 2 and 3; only the broadest ones have been shown.
Fair weather and unmetalled roads, in this sheet, are generally motorable in the season. Permission to use those roads (toll/ tolled roads) is required from the Forest Authorities.
A relative height, ...ft represents the approximate height, in metres, between the top and bottom of a steep slope.
The kilometre stone numbers along roads are shown in cloth type e.g. 8 whereas milestone numbers, are shown in upright type e.g. 8.
The common boundary between the Protected Forests are not shown for want of reliable information.

COMPILATION INDEX

A. Surveyed during 1970-74. Updated for major details during 1980-88 and 2000-03.

Projection – UTM Datum – WGS 84

Magnetic Variation from True North about $\frac{1}{2}$° West in 2005. (Decreasing by about 7' annually).

500 m to 1 cm **1:50,000** 2 cm to 1 km

Metres 1000 500 0 1 2 3 Kilometres

CONTOUR INTERVAL 20 METRES

For further details about this map, please contact
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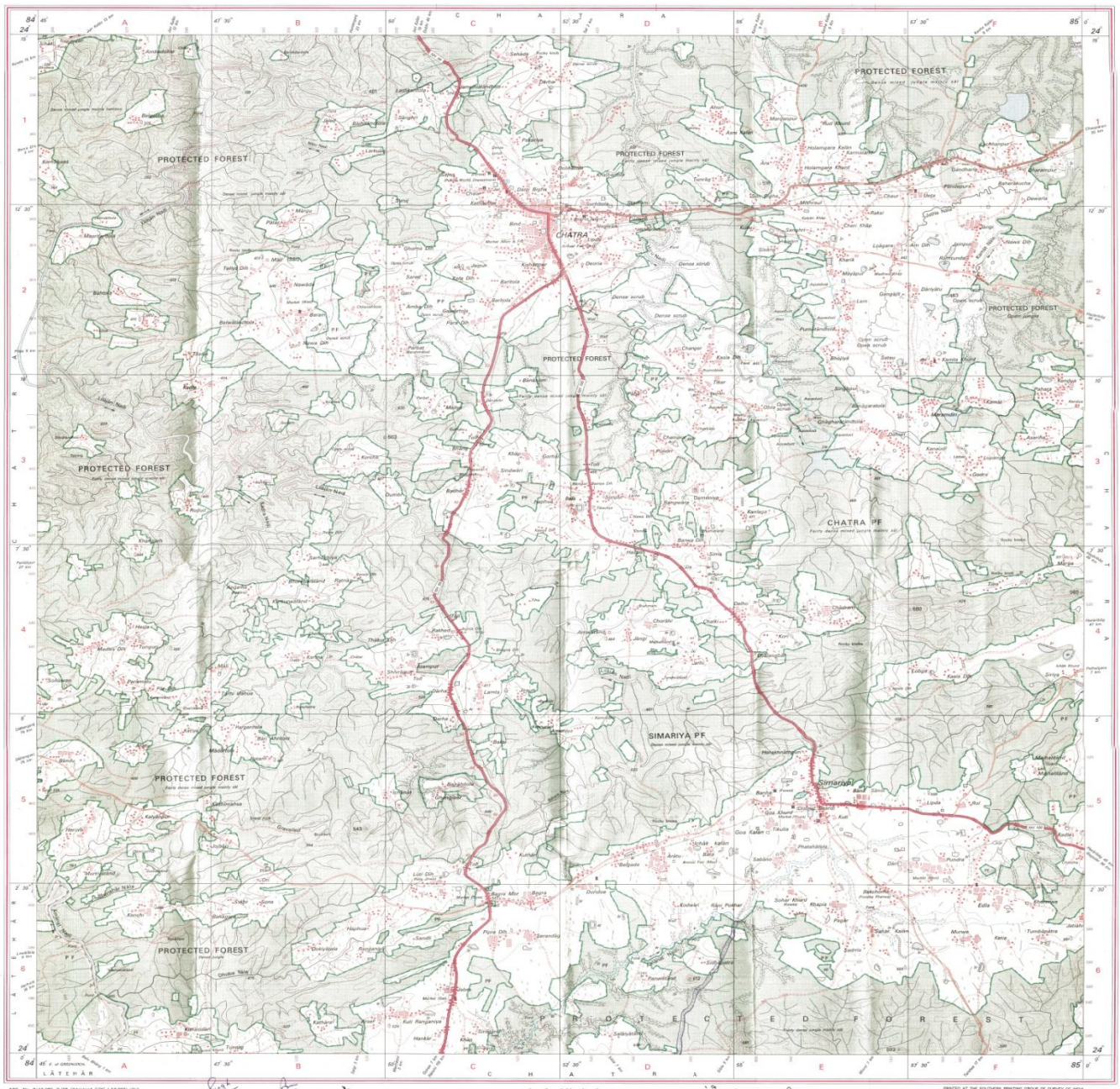

S.O. No. 8143.SPG. D.'09 (Jharkhand GDC-1:50,000)-1915.

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Department of Science & Technology, Government of India.

संकेत :- प्रस्तावित पच हल्लू रंग से दिखाई गई है