

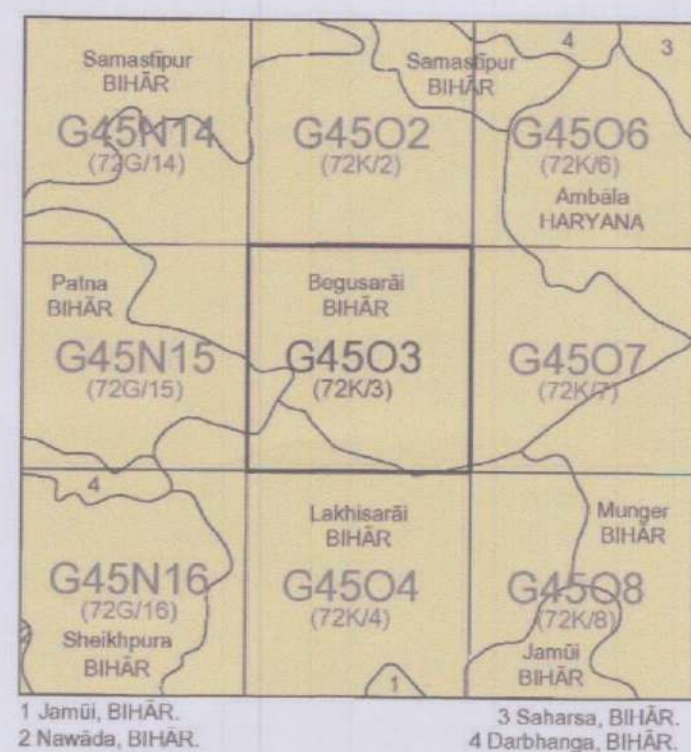


निर्गत के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. G4503

Scale 1:50,000



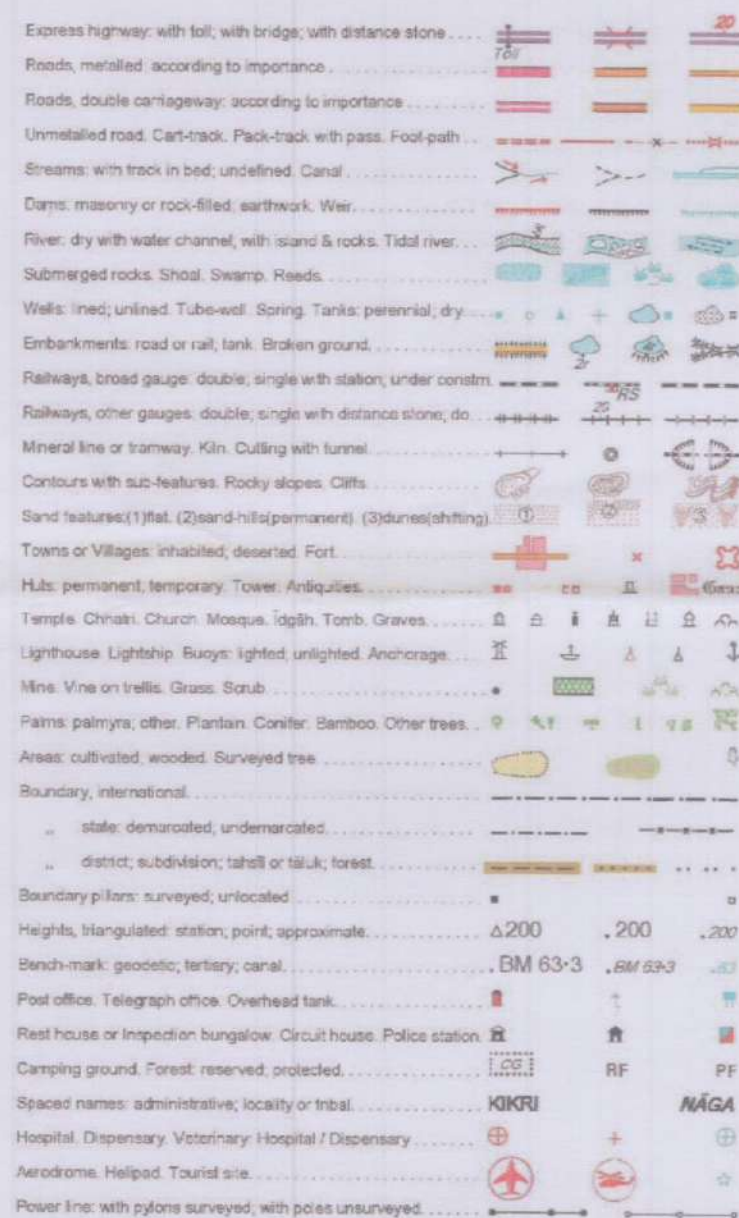
भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

Price : Rs. 50/-

CONVENTIONAL SYMBOLS



PROPOSED GAIL PIPELINE

PROTECTED FOREST

REFERENCES

Apr 21 National Highway No. 31 FB Foot bridge

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, or, represents the approximate height, in metres, between the top and bottom of a steep slope.
Tubewells are numerous throughout this sheet, only the important ones have been shown.
Unmetalled roads and cart tracks in this sheet are generally unusable in dry season. Permission to use these along canals is required from irrigation authorities.

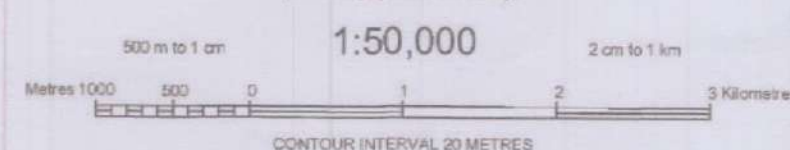
COMPILED INDEX

A. Surveyed during 1977-79. Updated for major details during 2004-05.



Projection - UTM Datum - WGS 84

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



CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

Director
Bihar Geo-Spatial Data Centre
Survey of India, 164, Sheikhpura House, Sheikhpura
Patna - 800014
Fax : 0612 - 2280255

WEBSITE : www.surveyofindia.gov.in

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निर्वात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. G4506

Scale 1:50,000

Darbhanga BIHAR G4501 (72K1)	G4505 (72K5)	Madhepura BIHAR G4509 (72K9)
G4502 (72K2)	G4506 (72K6)	G45010 (72K10)
G4503 (72K3)	G4507 (72K7)	G45011 (72K11)

1 Supaul, BIHAR.
2 Patna, BIHAR.
3 Samastipur, BIHAR.
4 Lakhisarai, BIHAR.

भारतीय सर्वेक्षण विभाग

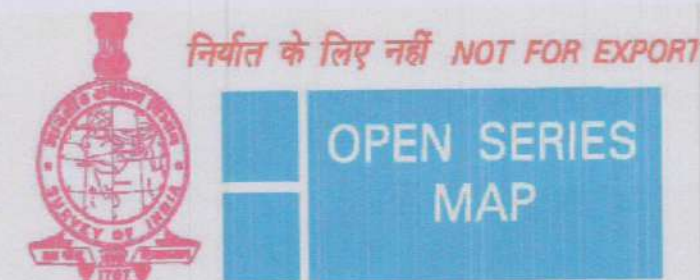
SURVEY OF INDIA

1st Edition 2010.

Price : Rs. 50/-

CONVENTIONAL SYMBOLS

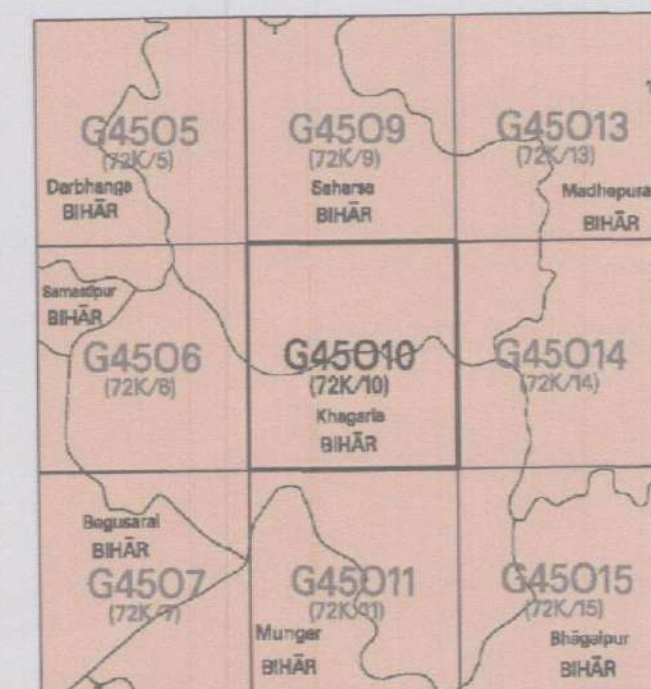
Express highway, with toll, with bridge, with distance stone	
Roads, metalled, according to importance	
Roads, double carriageway, according to importance	
Unmetalled road; Cart track; Plack-holes with pass; Footpath	
Streams with track to boat, unmetalled Canal	
Dams, masonry or rock-filled, earthenwork, Wall	
River, dry with water channel, with island & rocks, Tidal river	
Submerged rocks, Shoal, Swamp, Reeds	
Wells, Unfed, unfed, Spring, Turbines, perennial, dry	
Embankments, road or rail, bank, Gravel ground	
Railways, broad gauge, double, single with station, under construction	
Railways, other gauges, double, single with distance stone, do.	
Mineral line or tramway, Kiln, Cutting with tunnel	
Contours with sub features, Rocky slopes, Cliffs	
Sand features (1/1000) (2/2000) (3/4000) (4/8000) (5/16000) (6/32000) (7/64000) (8/128000) (9/256000) (10/512000) (11/1024000) (12/2048000) (13/4096000) (14/8192000) (15/16384000) (16/32768000) (17/65536000) (18/131072000) (19/262144000) (20/524288000) (21/1048576000) (22/2097152000) (23/4194304000) (24/8388608000) (25/16777216000) (26/33554432000) (27/67108864000) (28/134217728000) (29/268435456000) (30/536870912000) (31/1073741824000) (32/2147483648000) (33/4294967296000) (34/8589934592000) (35/17179869184000) (36/34359738368000) (37/68719476736000) (38/137438953472000) (39/274877906944000) (40/549755813888000) (41/1099511627776000) (42/2199023255552000) (43/4398046511104000) (44/8796093022208000) (45/17592186044416000) (46/35184372088832000) (47/70368744177664000) (48/140737488355328000) (49/281474976710656000) (50/562949953421312000) (51/1125899906842624000) (52/2251799813685248000) (53/4503599627370496000) (54/9007199254740992000) (55/18014398509481984000) 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OPEN SERIES
MAP

No. G45010

Scale 1:50,000



1 Purnia, BHAR.
2 Supaul, BHAR.
3 Lalhansri, BHAR.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2008.

Price : Rs. 50/-

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. Pick-track with pass. Foot-path
- Stations with track in bridge; unbridged. Canal
- River, reservoir or rock-filled, network. Well
- River dry with water channel; with island & lake. Tidal. Reef
- Waterlogged tract. Shrub. Swampy. Reeds
- Water level, ordinary. Tidal. Spring. Tidal. Reservoir. Dry
- Embankment road or air. Bank. Broken ground
- Railways, broad gauge. Double. Single with station, under construction
- Railways, other gauge. Double. Single with station, under construction
- Mineral line or tramway. Kib. Cutting with tunnel
- Contours with sub-features. Rocky slopes. Cliffs
- Sand features. Shrub. Grass. Permanent. Discontinuous
- Towns or Villages. Inhabited. Deserted. Fort
- Note permanent temporary. Tower. Antenna
- Temples. Obelisk. Church. Mosque. Light. Tomb. Grave
- Lighthouse. Lightship. Buoy. Lighted. Unlighted. Anchorage
- Mine. Vm on track. Great. Small
- Forest. Primary. Other. Planted. Conifer. Broadleaf. Other trees
- Areas. Cultivated. Wooded. Surveyed line
- Boundary. International
- Water. Damaged. Undamaged
- Electric. Substation. Tidal or Shrub. Forest
- Boundary pillars. Surveyed. Unsurveyed. Village. Settlement
- Height. Triangulation. Station. Point. Approximate
- Baromet. Height. Geodetic. Terrestrial. Level
- Post office. Telegraph office. Overhead tank
- Rail house or inspection building. Club house. Police station
- Camping ground. Forest. Reserved. Protected
- Special reserve. Administrative. Locally or tribal
- Hospital. Dispensary. Veterinary. Hospital. Dispensary
- Airport. Heliport. Tourist site
- Power line with pylons surveyed; with poles unsurveyed

PROPOSED GAIL PIPELINE

PROTECTED FOREST

REFERENCE

NY 107 National Highway No. 107

NOTES

Height are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, 50, represents the approximate height, in metres, between the top and bottom of a steep slope.
The triangulation height and contours in this sheet have not been adjusted to the height of the spheroidal datum and may not be strictly in accordance with them.
Unmetalled roads in this sheet are generally metalled in dry season.
Tanks, shown dry, in this area usually contain water from July to February.
The area adjoining Ganga, Ghaghara and Kosi Rivers is liable to change owing to continual fluctuation in the course of the rivers.
The whole area in this sheet is generally inundated from July to November.
A relative height, 50, marked along a canal, indicates the height of the top of the canal embankment, above the Indian mean sea level.
Power lines in this sheet are for reference from December to June.

COMPILED INDEX

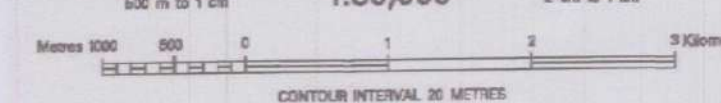
A. Surveyed during 1973-74. Updated for major details during 2008-09.

A

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about 1/4° West in 2005.
(Decreasing by about 1° annually)

1:50,000



CONTOUR INTERVAL: 20 METRES

For further details consult this map, please contact

Director

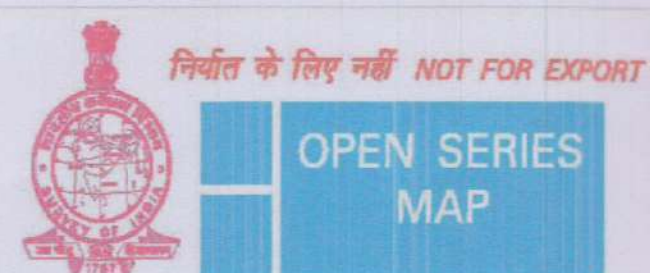
SHR Geo-Spatial Data Centre

104, Shaheed Bhagat Singh Park, Patna - 800014

Phone : 0812-2280265

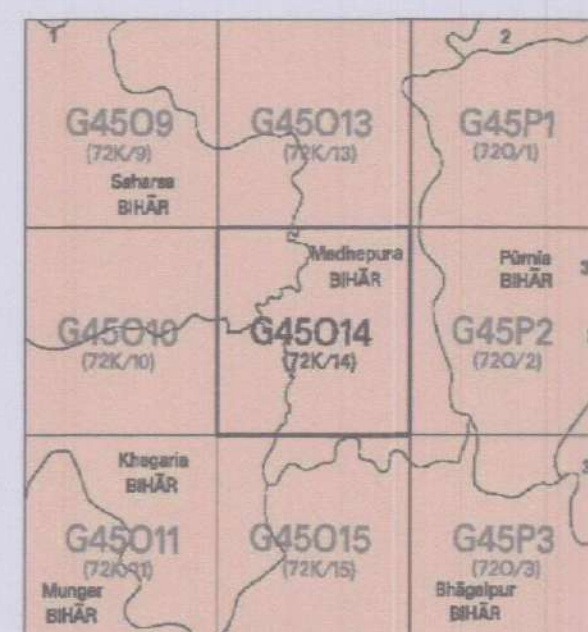
Website - www.surveyofindia.gov.in





No. G45014

Scale 1:50,000



1 Supaul, BIHAR.
2 Araria, BIHAR.
3 Katihit, BIHAR.

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1st Edition, 2009.

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CONVENTIONAL SYMBOLS

[illegible]

PROPOSED GAIL PIPELINE

PROTECTED FOREST

REFERENCES

NW 102 National Highway No. 102 NWB 507 North Eastern Railway Barrenkhi (Bridgew) Section

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height, e.g., Δ , represents the approximate height, in metres between the top and bottom of a steep slope.
A relative height, e.g., Δ , marked along a canal, indicates the height of the top of the canal embankment above the adjacent country.
Tracks, shown by, in this area usually occur under from July to March.
Unsettled roads and cart-tracks in the sheet are generally removable in dry season. Permission to use these along canals is required from irrigation authorities.

COMPILATION INDEX

A. Surveyed during 1973-74. Updated for major details during 2005-06.

Projection - UTM Datum - WGS 84

Magnetic Variation from True North about $\frac{1}{2}^{\circ}$ West in 2008.

1:50,000

Metres 1000	500	0	1	2	3 Kilometres
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CONTOUR INTERVAL 20 METRES

For further details about this map, please contact

Director

Bihar Geo-Spatial Data Centre
Survey of India, 164, Shaildipura House, Shaildipura

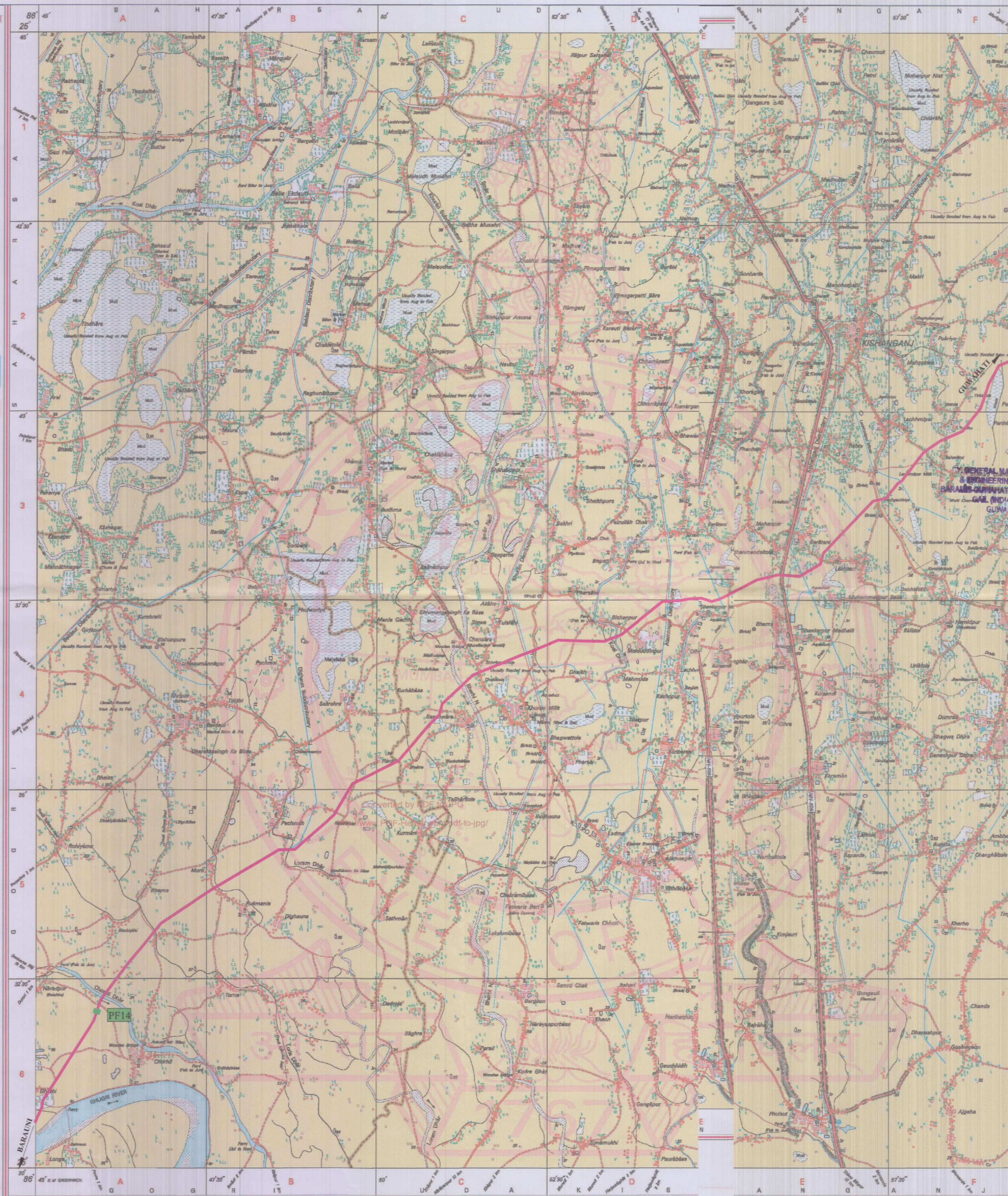
Patna - 800014.

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