

GIRIDIH AND
HAZARIBAG DISTRICTS.

बिहार
BIHAR

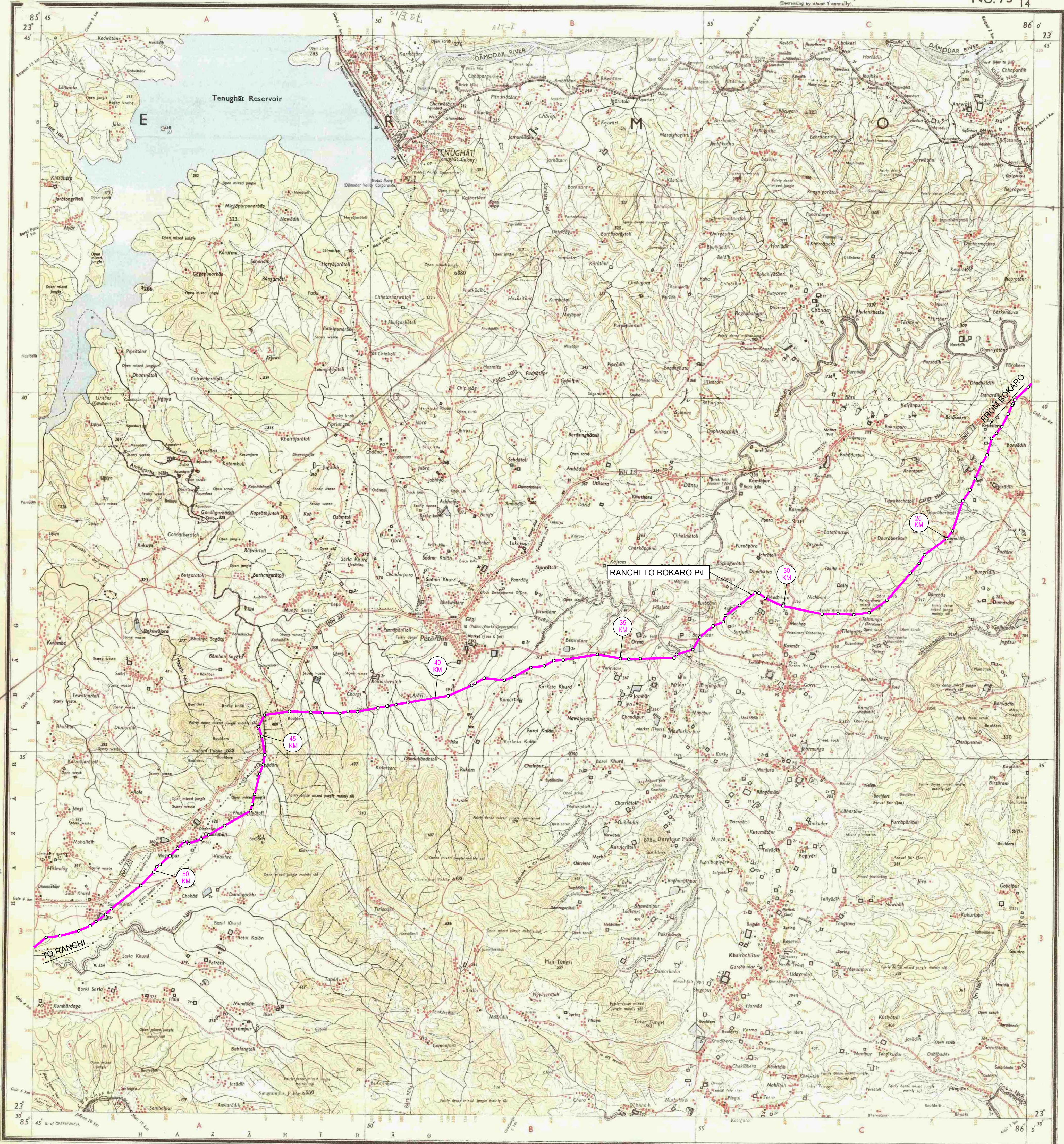
FIRST EDITION

भारत INDIA
REFER TO THIS MAP AS - 1:50,000
SHEET 73 E/14 FIRST EDITION

No. 73 E/14

Magnetic Variation from True North about $\frac{1}{2}^{\circ}$ West in 1975.
(Decreasing by about 1' annually).

Surveyed 1976-76.



Ref. No. 4572 D/78 (C. 18-13333) 405' 8' 6.1049'.

Roads: metalled, according to importance; distance stone
unmetalled, do. do. bridge

Canals: pack-track and pass, foot-path with bridge

Bridges: with parapet, Causeway, Ford or Ferry

Streams: with track in bed, unmetalled, Canal

Dams: masonry or rock-filled earthwork, Weir

River banks: shelving steep, 3 to 6 metres, over 6 metres

dry with water channel, with island & rocks, Tidal river

Submerged rocks, Shoal, Sandbar, Rocks

Wells: lined, unlined, Tube-well, Spring, Tank, perched, dry

Embankments: road or rail, tank, Broken ground

Railways: broad gauge, double single with station under centre

other gauges, do. do. with station near do.

Mineral line, or tramway, Telegraph line, Control, with tunnel

Contours with sub-features, Rocky slopes, Cliffs

Solid features: (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) (100)

1st Edition 1978.
(Previous Edition on 1:50,000 scale: 1st 1975).

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500 m to 1 cm
2 cm to 1 km
2 Kilometres

HEIGHTS & CONTOURS IN METRES
CONTOUR INTERVAL 10 METRES

*Water features are shown in blue where they generally contain water.
*Contoured areas are coloured yellow.
The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribbands.
Contours are approximate.
A relative height, dr, represents the approximate height, in metres, between the top and bottom of a steep slope.
Wooded areas are coloured green. Scattered trees and other vegetation are in green, but prominent surveyed trees are in black.
*Not applicable.

The kilometre stone numbers along roads and the railway are shown in slant type, e.g. '3' whereas milestone numbers are shown in upright type, e.g. '3'.
Unmetalled roads since the last amendment is shown by dashed line symbol.
All unmetalled roads are metable in dry season.

REFERENCES

OT Overhead tank.
S.E.R. South Eastern Railway.
NH 23 National highway No. 23.
C.M. & B. Chh. Bhoi Muri Barua Kana Branch.

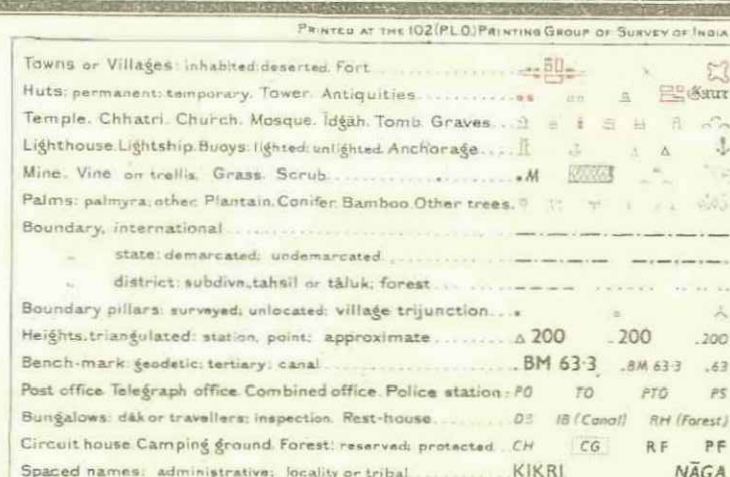
Administrative Index



1. GIRIDIH.
2. HAZARIBAG.

Rakesh Kumar
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प्रबंधक (निर्माण) / MANAGER (CONSTRUCTION)
गैल (इंडिया) लिमिटेड / GAIL (INDIA) LIMITED
डोरान्डा, जिला-रांची-834002 (झारखण्ड) भारत
DORANDA, DIST. RANCHI-834002 (JHARKHAND) INDIA

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Price: Five Rupees.

बिहार
BIHĀR

FIRST EDITION

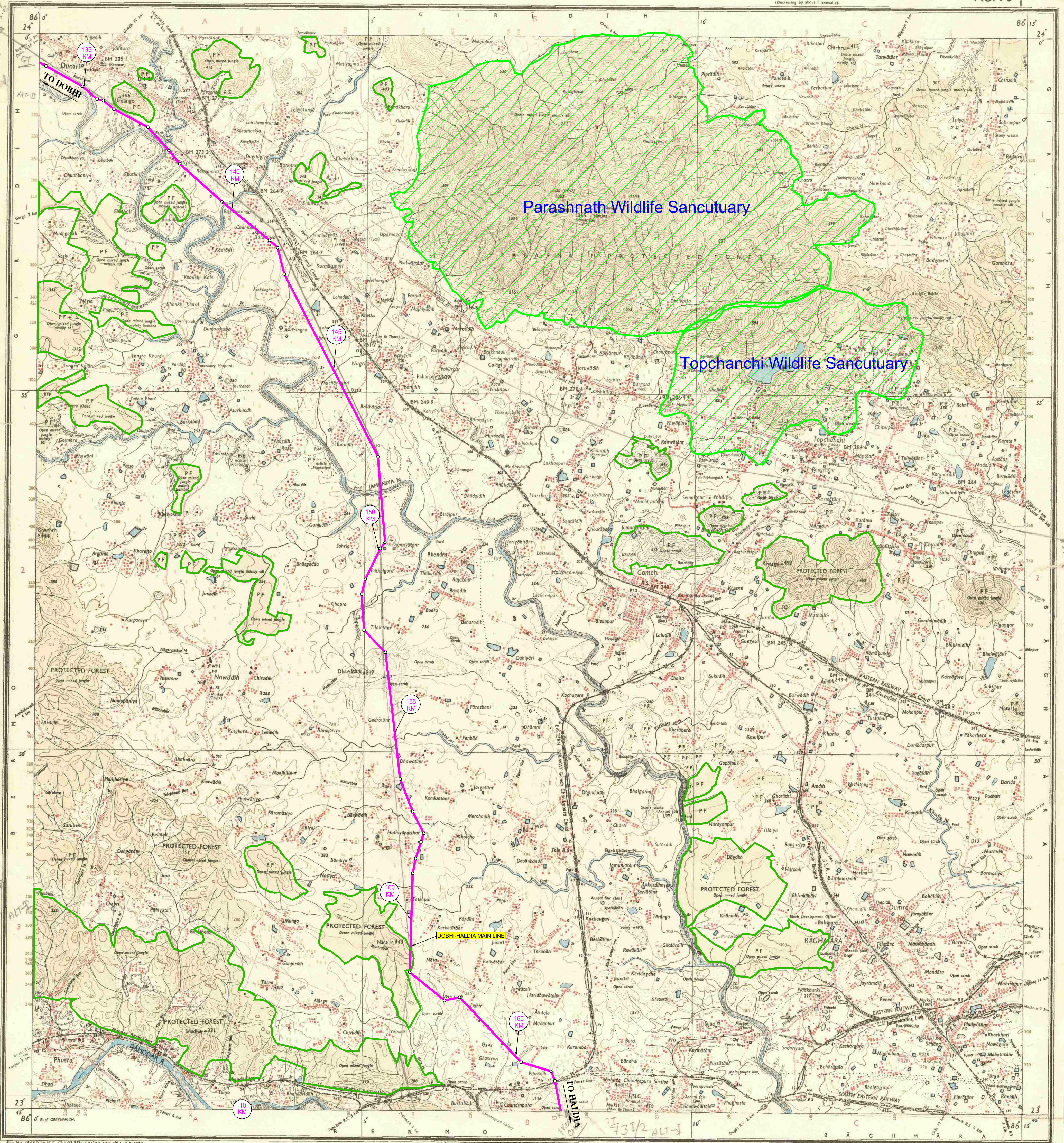
REFER TO THIS MAP AS
SHEET 73 1/1 FILE

No. 73 $\frac{1}{1}$

DHANBĀD & GIRĪDĪH DISTRICTS.

Surveyed 1973-74

Magnetic Variation from True North about 1° West in 1975.
(Decreasing by about 1° annually).



Reg. No. 4569078 (EC 62-133.333)-60580-140 284-4816796

भारत के महामहोदय मेजर जनरल किशोरी लाल खोस्ला के निदेशन में प्रकाशित,
Published under the direction of Major General Kishori Lal Khosla, Surveyor General of India
1978.

1:50 000

HEIGHTS & CONTOURS IN METRES
CONTOUR INTERVAL 20 METRES

* Water features are shown in blue where they generally contain water.
 * Cultivated areas are coloured yellow.
 * The exterior boundaries of areas of Reserved or Protected Forests are shown by green ribands.

Contours are approximate
 A relative height, δr , represents the approximate height, in metres between the top and bottom of a steep slope.
 Wooded areas are coloured green. Scattered

* Not applicable.

The kilometre stone numbers along roads and railways are shown in slant type, e.g. '5' whereas milestone numbers are shown in upright type, e.g., '5'.

The triangulated heights and contours in this sheet have not been adjusted to the heights of the strictly-levelled bench-marks and may not strictly in accordance with them.

REFERENCES

PWD	Public Works Department	NH 2	National Highway No. 2
City	Chennai.	Disp	Dispensary.
	MSLC		Hindustan Steel Limited Colony

Administrative Index

OK

Robert K. ...

राकेश कुमार
MANAGER (CONS)

ISTT. RANCHI-834002(JHAR)

28

PRINTED AT THE 102 (P.L.O.) PRINTING GROUP OF SURVEY OF INDIA.

Huts: permanent: temporary. Lower. Antiquities.....

Temple. Chhatrai. Church. Mosque. Idgah. Tomb. Graves.....

Lighthouse. Lightship. Boys: lighted. unlighted. Anchorage.....

Palms: palmyra, other. Plantain. Conifer. Bamboo. Other trees.

Boundary pillars: surveyed; unlocated; village trijunction...	200	200	200
Heights, triangulated; station, point; approximate	200	200	200
Bench-mark; geodetic; tertiary; canal	200	200	200

Post office. Telegraph office. Combined office. Police station.	PO	TO	PTO	PS
Bungalows: dak or travellers: inspection. Rest-house:	DB	IS (Canal)	SH (Forest)	
Circuit house. Camping ground. Forest: reserved: protected.	CH	CG	RF	PF
Speed games. administration. head-quarters.	KHDI			NAC

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1st Edition 1978.
(Previous Edition on 1-inch scale: 1st 1937/1944)

REFER TO THIS MAP AS : 1:50,000
SHEET 73 1/1 FIRST EDITION

INDIA

WTR

REFERENCES

PWD	Public Works Department	NH 2	National Highway No. 2
Chy	Chimney.	Disp	Dispensary.
	MSLC		Hindustan Steel Limited Colony

DHANBAD DISTRICT.
PURULIYA DISTRICT.

Surveyed 1973-74.



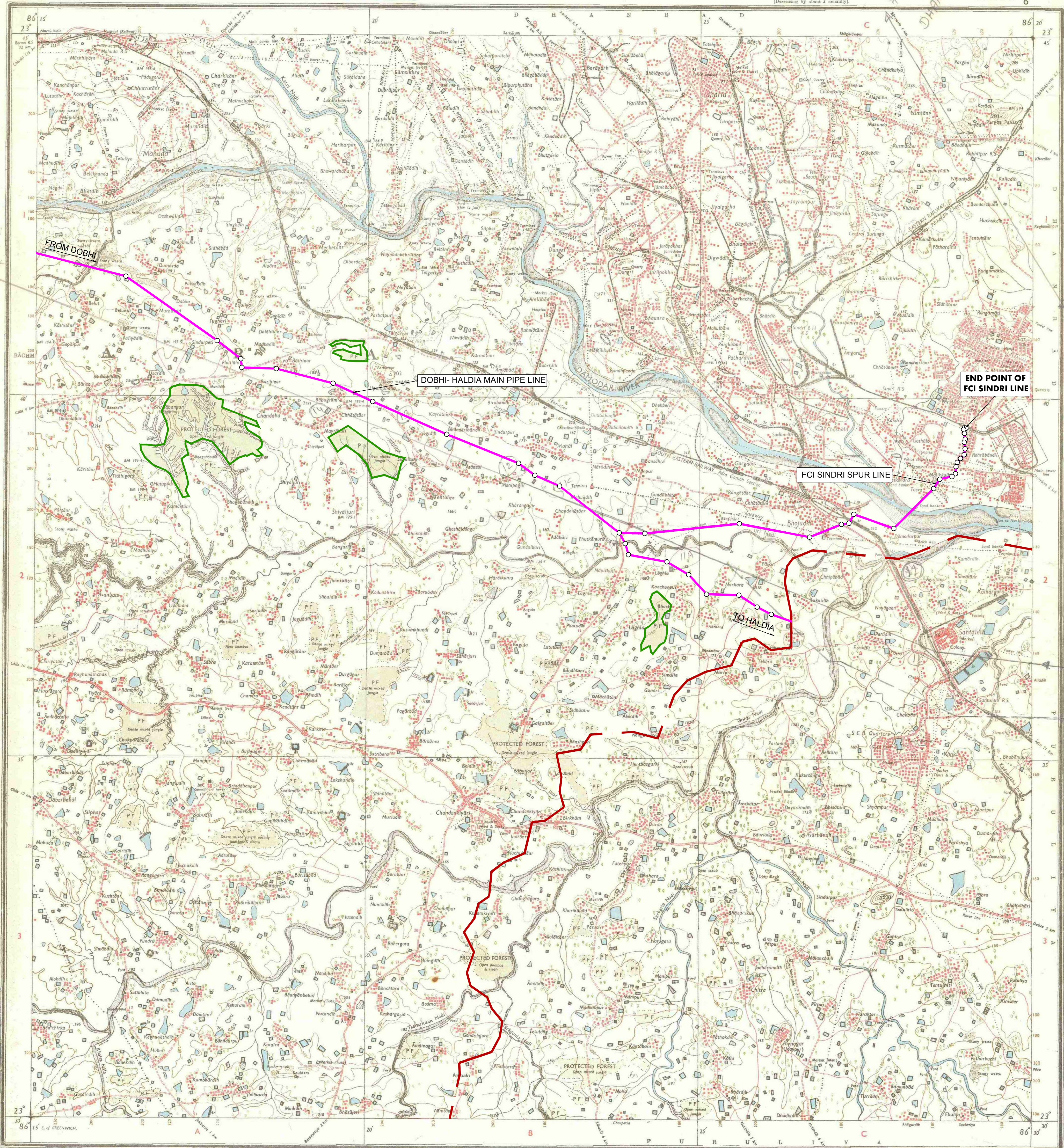
बिहार, पश्चिमी बंगाल
BIHAR, WEST BENGAL

FIRST EDITION

Magnetic Variation from True North about 2° West in 1975.
(Decreasing by about 2' annually.)

भारत INDIA
REFER TO THIS MAP AS :- 1:50,000
SHEET 73 1/6 FIRST EDITION

NO. 73 1/6

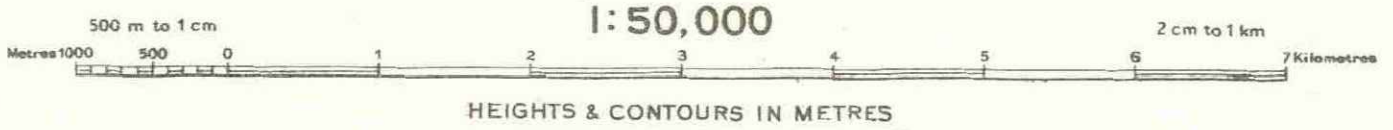


Ref. No. 4-334 D/77 (E.C. 13333) - 420' 50-1,302' 94-100092.

Roads, metalled, according to importance: distance stone	20
unmetalled, do.	10
Cart-track, pack-track and peat. Foot-path with bridge	5
Bridges: with piers, without. Causeway, ford or ferry	2
Streams with rock in bed, unfilled. Canal	1
Dams: masonry or rock-filled earthwork, weir	1
River banks: shelving, steep, 3 to 6 metres, over 6 metres	1
dry with water channel, with island & rocks, tidal river	1
Submerged rocks. Shoal, swamp. Beach	1
Wells: hand, tube, well, spring, tank, perennial, dry	1
Embankments: road or rail, tank, broken ground	1
Railways: broad gauge, double, single with station, under construction	1
other gauges: do. do. with distance stone, do.	1
Miscellaneous: telegraph line, cutting with tunnel	1
Contours with spot heights, rocky slopes, cliffs	1
Spot features: hill, island, hill, and some unimportant shifting dunes	1

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HEIGHTS & CONTOURS IN METRES
CONTOUR INTERVAL 20 METRES

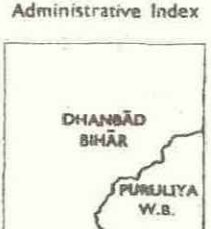
*Water features are shown in blue where they generally contain water.
*Contour lines are coloured yellow.
*The exterior boundaries of areas of Reserved or Protected forests are shown by green ribbons.

*Not applicable.

The kilometre stone numbers along roads and railways are shown in short type, e.g., '5' whereas milestone numbers are shown in upright type, e.g., '5'.

The triangulated heights and contours in this sheet have not been adjusted to the heights of the spirit-levelled bench-marks and may not be strictly in accordance with them.

The state boundary between Bihar and West Bengal States has been surveyed as pointed out by the local officials on the ground but has not been verified by the Government of Bihar.



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DORANDA DIST. RAICH-834002 (JHARKHAND) INDIA

Printed at the 102 P.D. Printing Group of Survey of India.

Towns or villages: inhabited, deserted, fort.	1
Huts, permanent, temporary, tower, antiquities	1
Temple, Chhatra, Church, Mosque, Idga, Tomb, Graves	1
Lighthouse, Lightship, Benighted, unlighted, Anchorage	1
Mine: Vene on trelle, Grass, Scrub	1
Palms: palmyra, other, Plantain, Conifer, Bamboo, Other trees	1
Boundary: international, undemarcated	1
district: sub-division, taluk, forest	1
Boundary pillars: surveyed, uncoloured, village, junction	1
Height: triangulated, station point, approximate	200, 200, 200
Bench mark: G.S. (Indian), G.S. (British)	BM 633, BM 432, 43
Post office: Telegraph office, Combined office, Police station, P.O. to P.O.	PO 10, PO 10, PO 10
Bungalows: d.k. or travellers, inspection, Rest-house, DM, J.B. (Civil), J.B. (Forest)	DM, J.B. (Civil), J.B. (Forest)
Circuit house, Camping ground, Forest: reserved, protected, C.N. (C), R.P. (F)	C.N. (C), R.P. (F)
Special names: administrative, locality or tribal	KIKRI, NAGA

REFER TO THIS MAP AS :- 1:50,000
SHEET 73 1/6 FIRST EDITION
INDIA भारत

REFERENCES
D.P. Disperser.
P.P. Pump house.
NH 32 National Highway No. 32.
C.C. Chinmay.
O.T. Overhead cable.
S.E.B. State Electricity Board.