



निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. G45P2

Scale 1:50,000

G45O13 (720/13)	G45P1 (720/1)	G45P5 (720/5)
Sahasra Bihar	Madhepura Bihar	Purnia Bihar
G45O14 (720/14)	G45P2 (720/2)	G45P6 (720/6)
Madhubani Bihar	Katihar Bihar	Siwan Bihar
G45O15 (720/15)	G45P3 (720/3)	G45P7 (720/7)
Siwan Bihar	Siwan Bihar	Siwan Bihar

1 Sahasra, JHARKHAND.
2 Katihar, BIHAR.
3 Siwan, BIHAR.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

Price : Rs. 60/-

CONVENTIONAL SYMBOLS

Express Highway with toll with bridge with distance stone	
Roads, marked according to importance	
Unsurfaced road, Cart-track, Road with pass, Road-path	
Roadway with track to head, unclassified, Canal	
Canal, masonry or rock-lined, unclassified, Weir	
Water, dry with water channel with island & rock, Tidal river	
Water, fresh, unclassified, Spring, Tidal, permanent, dry	
Water, fresh, road or rail, broken ground	
Railways, broad gauge, double, single with station, under construction	
Railways, meter gauge, double, single with station, under construction	
Altered line or boundary, old, cutting with level	
Contours with sub-contours, rocky slopes, City	
Sand features: (Shaded) Mts (unshaded) Shaded, Shaded, Shaded	
Towns or Villages, inhabited, deserted, Fort	
Hill, permanent, temporary, Tower, Antenna	
Temples, Church, Mosque, Ghat, Tomb, Grave	
Lighthouses, Lightship, Beacon, lighted, unlighted, Anchorage	
Min. Vessels on traffic, Great Circle	
Prime, primary, other, Pinnacles, Conifer, Bamboo, Other trees	
Areas, cultivated, wooded, surveyed, tree	
Boundary International	
State, constituted, unconstituted	
State, constituted, unconstituted	
Boundary, Pinnacles, unconstituted	
Height, triangulation station, point, approximate	
Height, triangulation station, point, approximate	
Post office, Telegraph office, Unconstituted	
Post office, Telegraph office, Unconstituted	
Camping ground, Forest, reserved, protected	
Special names, administrative, locality or tribal	
Hospital, Dispensary, Veterinary, Hospital, Dispensary	
Airports, Helipad, Tarmac, etc.	
Power line, with pylons surveyed, with poles unsurveyed	

PROPOSED GAIL PIPELINE

PROTECTED FOREST

NOTES :-
A relative height, A, represents the approximate height, in general, between the top and bottom of a steep slope.
The distance stone numbers along roads and railways are shown in small type, e.g., 1/2 whereas relative numbers are shown in capital type, e.g., 1/2.
A relative height, A, is marked along a road, indicating the height of the top of the road embankment above the adjacent country.
Contour lines, for the purpose of the map, are shown along all main canals. Permission to use these embankments is required from the irrigation authorities.
Height and contour are not shown in this sheet.

COMPILATION INDEX

A. Surveyed during 1959-75. Updated for major details in 2005-08.

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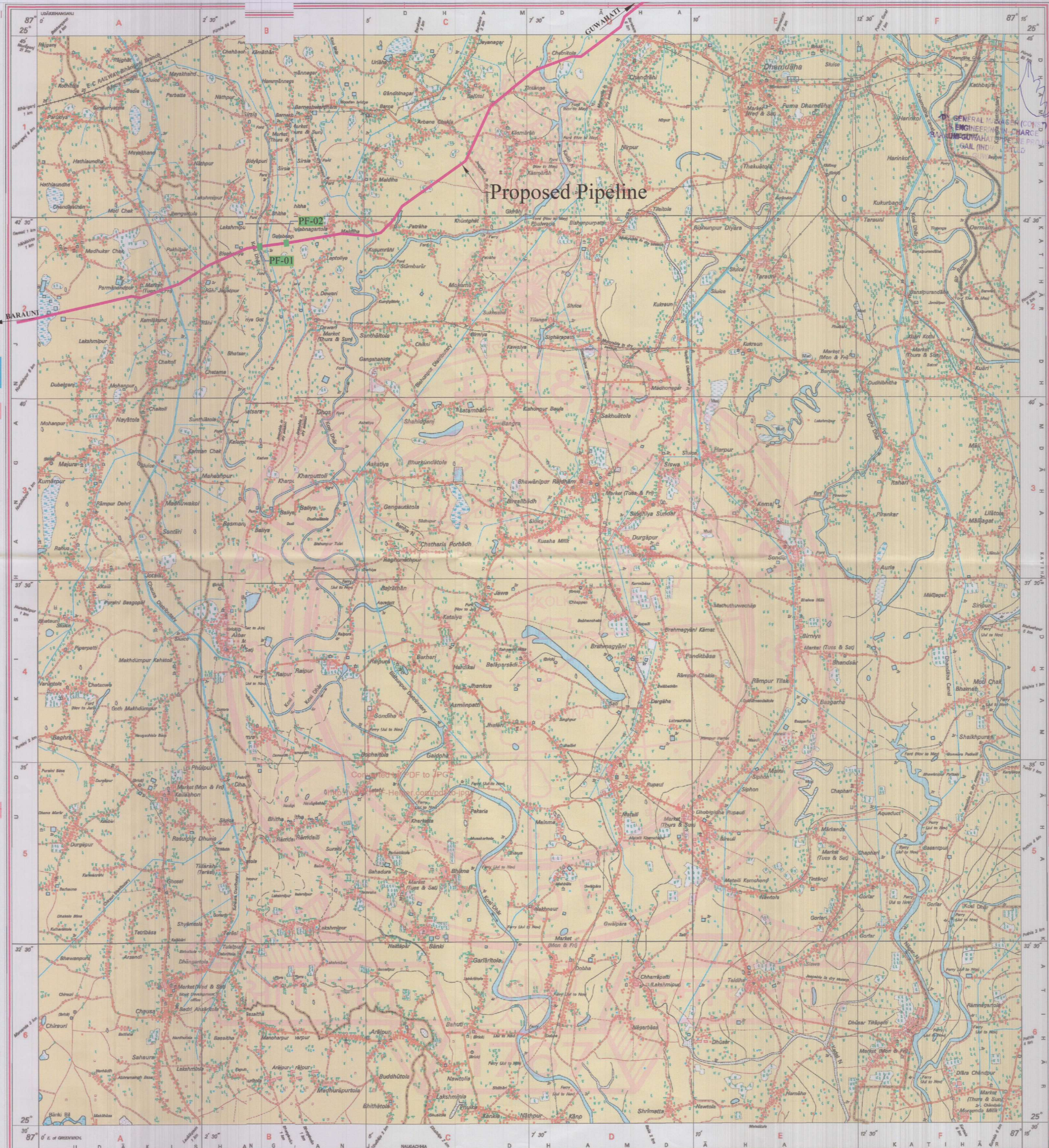
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निर्वात के लिए नहीं NOT FOR EXPORT

OPEN SERIES
MAP

No. G45P1

Scale 1:50,000

Supaul Bihar G45J6 (720/16)	G45J4 (720/14)	Araria Bihar G45J8 (720/18)
G45O13 (720/13)	G45P1 (720/1)	G45P5 (720/5)
Saharsa Bihar G45O14 (720/14)	G45P2 (720/2)	G45P6 (720/6)

1 Bhagpur, Bihar.
2 Khagaria, Bihar.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2005.

Price : Rs. 50

CONVENTIONAL SYMBOLS

Express highway, with toll, with bridge, with distance stone	...
Roads, metalled, according to importance	...
Roads, double cartageways, according to importance	...
Unmetalled road, Cart-track, Push-track with pass, Foot-path	...
Drover's with track in belt, unmetalled, Canal	...
Dam, masonry or rock-filled, earthwork, Wall	...
Submerged rocks, Shoal, Swamp, Banks	...
Water, fresh, unflowed, Spring, Tidal, permanent, dry	...
Contour-lines, spot or not, with brown ground	...
Railways, broad gauge, double single with distance stone	...
Railways, other gauges, double single with distance stone	...
Mixed line or tramway, 1500, Cutting with tunnel	...
Contours with sub-stations, Rocky slopes, Cliff	...
Small features, (Hill, Island, Lake, permanent, Obsolete, etc.)	...
Towns or Villages, inhabited, deserted, Fort	...
Hut, permanent, temporary, Tower, Antiquity	...
Temple, Church, Mosque, Light, Tomb, Grave	...
Lighthouse, Lightship, Buoy, lighted, unlighted, Anchorage	...
Mine, View on India, Green, Sand	...
Palace, palace, other, Palace, Castle, Bazaar, Other trees	...
Area, cultivated, wooded, Surveyed line	...
Roadway, international	...
State, demarcated, undemarcated	...
district, subdivision, sand or shaly forest	...
Boundary, pillars, surveyed, uncoloured	...
Height, triangulation station, spot, approximate	...
Benchmark, geodetic, levelling, aneroid	...
Post office, Telegraph office, Overhead tank	...
Rail house or inspection bungalow, Circuit house, Police station	...
Camping ground, Forest, reserved, protected	...
Speed names, administrative, locality or tribal	...
Hospital, Dispensary, Veterinary, Hospital, Dispensary	...
Aerodrome, heliport, Tourist site	...
Power line, with pylons surveyed, with poles assumed	...

PROPOSED GAIL PIPELINE

PROTECTED FOREST

REFERENCE

NY 107 National Highway No. 107

NOTES

A relative height, B, represents the approximate height, in metres, between the top and bottom of a steep slope.
The figures along roads, railways and canals are shown in black type, e.g., 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, 1/128, 1/256, 1/512, 1/1024, 1/2048, 1/4096, 1/8192, 1/16384, 1/32768, 1/65536, 1/131072, 1/262144, 1/524288, 1/1048576, 1/2097152, 1/4194304, 1/8388608, 1/16777216, 1/33554432, 1/67108864, 1/134217728, 1/268435456, 1/536870912, 1/1073741824, 1/2147483648, 1/4294967296, 1/8589934592, 1/17179869184, 1/34359738368, 1/68719476736, 1/137438953472, 1/274877906944, 1/549755813888, 1/1099511627776, 1/2199023255552, 1/4398046511104, 1/8796093022208, 1/17592186044416, 1/35184372088832, 1/70368744177664, 1/140737488355328, 1/281474976710656, 1/562949953421312, 1/1125899906842624, 1/2251799813685248, 1/4503599627370496, 1/9007199254740992, 1/18014398509481984, 1/36028797018963968, 1/72057594037927936, 1/144115188075855872, 1/288230376151711744, 1/576460752303423488, 1/1152921504606846976, 1/2305843009213693952, 1/4611686018427387904, 1/9223372036854775808, 1/18446744073709551616, 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OPEN SERIES
MAP

No. G45P5

Scale 1:50,000

Supra BHAR G45J4 (72N/4)	Arila BHAR G45J8 (72N/8)	G45J12 (72N/12)
G45P1 (72O/1)	G45P5 (72O/5) Patna BHAR	G45P9 (72O/9)
G45P2 (72O/2)	G45P6 (72O/6)	G45P10 (72O/10) Cuttack BHAR

1. Madhepura, BHAR.
2. Kishanganj, BHAR.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2010.

Price : Rs. 50/-

CONVENTIONAL SYMBOLS

Express Highway with toll with bridge with distance shown	
Roads, metalled, according to importance	
Roads, double carriageway according to importance	
Unmetalled road. Car-track. Path-track with pass. Foot-path	
Borewell with back in back, unmetalled. Canal	
Dam: masonry or rock-filled, with work. Weir	
River: dry with water channel, with island & rocks. Tidal flow	
Submerged road. Shoal. Swamp. Reeds	
Wells: Bore well. Tube well. Spring. Tanka. Perennial; dry	
Embankment: road or rail, with or without drainage	
Railways, broad gauge: double single with station, under construction	
Railways, other gauges: double, single with station, etc.	
Mineral line or railway. Etc. Cutting with tunnel	
Contours with sub-features. Roadway slopes. Cliff	
Soil 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)	
Towns or Villages: inhabited, classified, Fort	
Huts: permanent, temporary, Tower, Antiquities	
Temples, Church, Mosque, Ghat, Tomb, Grave	
Lighthouse, Lightship, Buoy, Lighted, Unlighted, Anchorage	
Mine, Veta on traffic, Gase. Sore	
Palace, palace, other, Port, Cattle, Benches, Other lines	
Arms: aircraft, vessel, Surveyed line	
Boundary: International, State, District, Subdivision, Village or Block, Forest	
Boundary: pillars, surveyed, uncoloured	
Height, triangulation station: peak, approximate	
Bench-mark: geodetic, levelling, canal	
Post office, Telegraph office, Overhead tank	
Rail house or inspection burglar, Circuit house, Police station	
Camping ground, Forest reserved, protected	
Spaced names: administrative, locality or tribal	
Hospital, Dispensary, Veterinary Hospital, Dispensary	
Airfield, Helipad, Tourist site	
Power line with pylons surveyed, with poles unsurveyed	

PROPOSED GAIL PIPELINE

PROTECTED FOREST

REFERENCE

ASI 21 National Highway No. 21

NOTES

The Monuments shown along roads, railways and canals are shown in short type, e.g., 'S' where reference numbers are shown in long type, e.g., 'S1'.
Enclosure for the proposed pipeline is shown in long type, e.g., 'S1'.
A relative height, e.g., 'S1', represents the approximate height, in metres, between the top and bottom of a steep slope.
Heights and Contours have not been shown.

COMPILED INDEX

A. Surveyed during 1983-79. Updated for major details during 2005-09.

Projection - UTM Datum - WGS 84

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

(Annual change negligible)

Scale 1:50,000

For further details about this map, please contact

Director

Survey of India, 164, Shaikhpur House, Shaikhpur

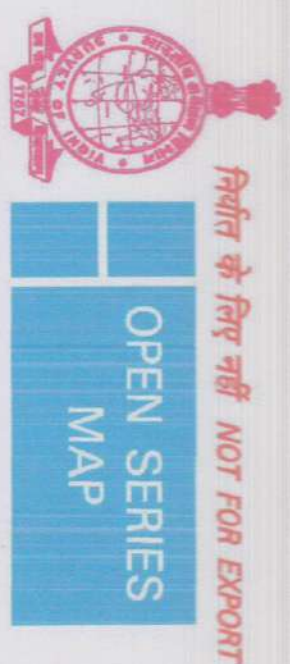
Patna - 800 014.

Fax : 0612 - 2280295

WEBSITE - www.surveyofindia.gov.in

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No. G45P9
Scale 1:50,000

Map of the West Bengal region showing the distribution of 12 different types of rice. The map is divided into several districts, each associated with a specific rice variety. The varieties are: G45J8 (Asha Brah), G45I12 (Izina Brah), G45I16 (Karnagun Brah), G45P5 (T230/5), G45P9 (Purna Brah), G45P13 (T230/4), G45P6 (T230/6), G45P10 (T230/10), and G45P14 (T230/14). The map also shows the location of the West Bengal region relative to the Bay of Bengal and the Indian Ocean.

1st Edition 2009.

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CONVENTIONAL SYMBOLS



PROPOSED GAIL PIPELINE
PROTECTED FOREST

REFERENCES

N F RAILWAY NORTH FRONTIER RAILWAY N E RY NORTH EASTERN RAILWAY
NH 31 National Highway No. 31

NOTES :-

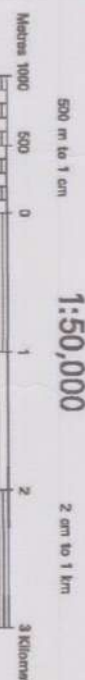
as a steep slope. The barometer score numbers along roads, canals and railways are shown in slant type, e.g., 8° where mileposts numbers are shown in upright type, e.g., 8. A relation height, e.g., 35, marked along a canal, indicates the height of the top of the canal embankment above the adjacent country.

COMPILATION INDEX

A. Surveyed during 1970-71. Updated for major details during 2005-06.

Projection - UTM Datum - WGS 84
Magnetic Variation from True North about $\frac{1}{4}^{\circ}$ West in 2005

1:50,000



For further details about this map, please contact:

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