निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. G45O13

Scale 1:50,000

G45I12 (72J/12)	Supaul BIHĀR G45I16 (72J/16)	G45J4 (72N/4) Arāria BIHĀR
G45O9 (72K/9) Saharsa BIHĀR	Madhepura BIHĀR G45O13 (72K/13)	G45P1 (72O/1) Pūrnia BIHĀR
G45O10 (72K/10)	G45O14 (72K/14)	G45P2 (72O/2)
Khagaria BIHĀR		

1 Madhubani, BIHĀR.
2 Katihār, BIHĀR.
3 Bhāgalpur, BIHĀR.

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 track in bed; undefined. Canal
Dams: masonry or rock-filled; earthwork. Weir
River: dry with water channel; with island & rocks. Tidal river
Submerged rocks. Shoal. Swamp. Reeds
Wells: lined; unlined. Tube-well. Spring. Tanks: perennial; dry
Embankments: road or rail; tank. Broken ground
Railways, broad gauge: double; single with station; under constrn
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)flat.(2)sand-hills (permanent). (3)dunes(shifting).
Towns or Villages: inhabited; deserted. Fort
Huts: permanent; temporary. Tower. Antiquities
Temple. Chhatri. Church. Mosque. Idgāh. Tomb. Graves
Lighthouse. Lightship. Buoys: lighted; unlighted. Anchorage
Mine. Vine on trellis. Grass. Scrub
Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees
Areas: cultivated; wooded. Surveyed tree
Boundary International
" state: demarcated; undemarcated
" district: subdivision; tahsil or tāluk; forest
Boundary pillars: surveyed; unlocated;
Heights, triangulated: station; point; approximate. △ 200 . 200 .200
Bench-mark: geodetic; tertiary; canal BM 63·3 .BM 63·3 .63
Post office. Telegraph office. Overhead tank
Rest house or Inspection bungalow. Circuit house. Police station
Camping ground. Forest: reserved; protected
Spaced names: administrative; locality or tribal KIKRI NĀGA
Hospital. Dispensary. Veterinary: Hospital/ Dispensary
Aerodrome. Heliipad. Tourist site
Power line: with pylons surveyed; with poles unsurveyed

LEGEND:

	CGD PIPELINE

REFERENCES

NH 106 National Highway No. 106 BDO Block Development Office

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
The theodolite traversed 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.
A relative height, e.g., .5r, represents the approximate height , in metres , between the top and bottom of a steep slope.
A relative height, e.g., .2r, marked along a canal, indicates the height of the top of the canal embankment above the adjacent country.
Unmetalled roads and cart-tracks in this sheet are generally motorable in dry season.
Permission to use unmetalled roads and cart-tracks along canals is required from the irrigation authorities.
Tanks, shown dry, in this area usually contain water from July to February.

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 $\frac{1}{4}$ West in 2005.
(Decreasing by about 1′ 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
Director
Bihār Go – Spatial Data Centre
Survey of India, 164 Sheikhpura House, Sheikhpura
Patna – 800014
Fax : 0612 – 2280265

WEBSITE – www.surveyofindia.gov.in

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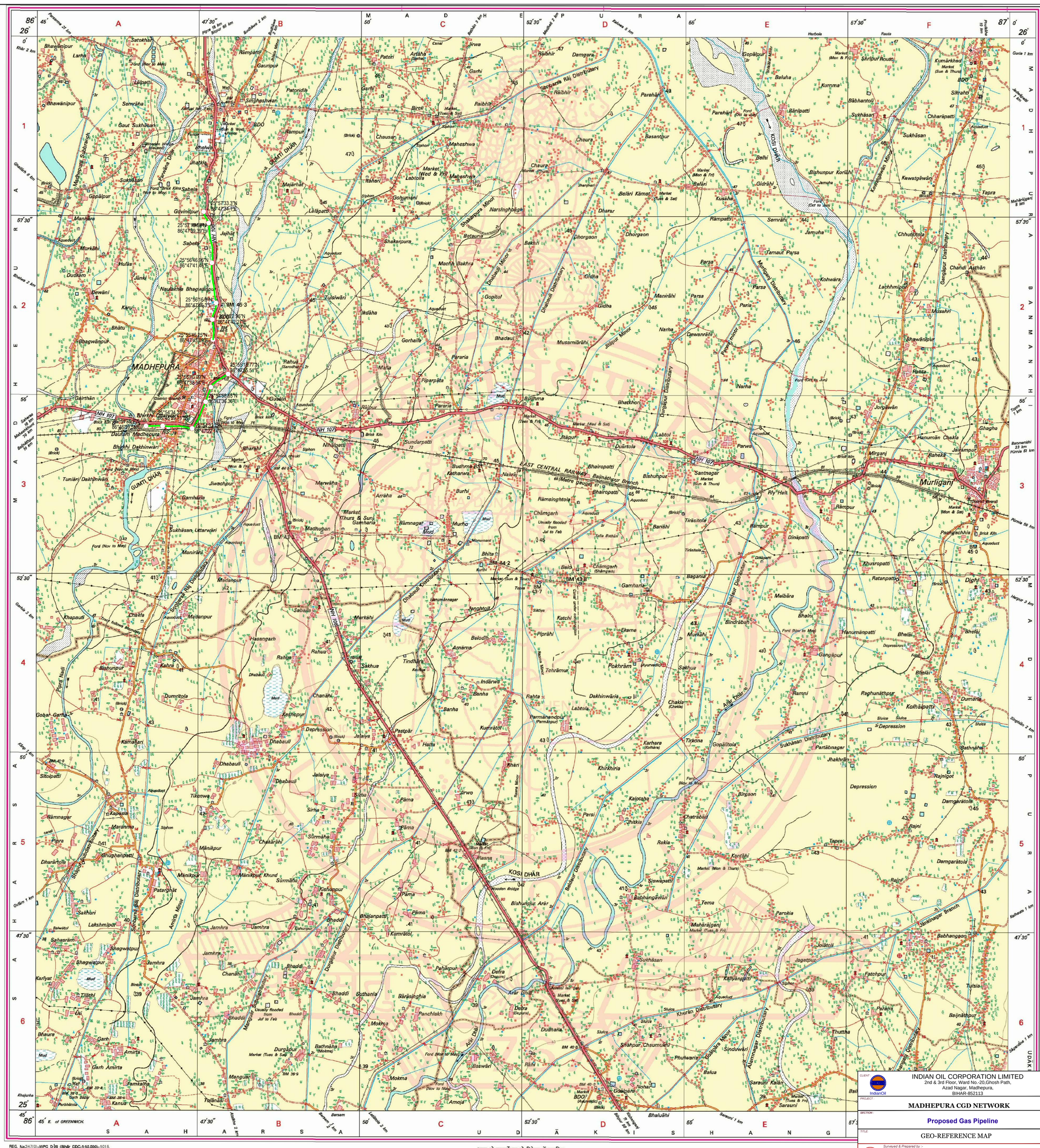
MADHEPURA
Murliganj
KOSI DHĀR
GUMTI DHĀR
NH 107
NH 106
EAST CENTRAL RAILWAY
Saharsa Rāj Distributary
Dhabauli Distributary
Durgāpur Distributary
Baldaur Distributary
Sukhāsan Distributary
Khurān Distributary
Alamnagar Distributary
Janakinagar Branch
Kankalwan Minor
Shakarpura Minor
Gangāpur Distributary
Murliganj Distributary
Bhāgalpur Distributary
Amirta Minor
Sunhara Rāj Distributary
Madhepura Subbranch
Kosi Bārāj Distributary
Kosi Bārāj Minor
Bhāgalpur Minor
Jhāpur Minor
Dhabauli Minor
Durgāpur Minor
Sudhāra Minor
Alamnagar Minor
Janakinagar Minor
Kankalwan Minor
Ghogha
Mānikpur
Sukhāsan
Bishunpur Arār
Kishunpur
Bhāgalpur
Bhaluāhi
Sarauni
Nohar
Gopālpur
Sinhāsan
Sinhā
Pāma
Rāmpur
Dighi
Pachgachhia
Ratanpatti
Khusropatti
Bhelai
Dumaria
Kolhāpatti
Raghunāthpur
Bathnāha
Rajnigot
Damgaratola
Rajni
Tapra
Chandi Asthān
Lachhmipur
Musahri
Bhawānipur
Rahta
Jorgawān
Hanumān Chakia
Jaitampur
Rahekā
Mirgānj
Bābhangāon
Tulsia
Bajnāthpur
Patahra
Thuttha
Fatchpur
Jagatpur
Joiātoli
Kalyāngatti
Sinduwāri
Sarauni Kalān
Phulwaria
Shāhpur Chaumukhi
Dudhalia
Dedra
Arār Ghāt
Boswāri
Mokma
Bāgāsinghia
Panchlakh
Durgāpur
Bathnāha
Manguāri
Tolānāsi
Amoja
Gamhāria
Garh Amirta
Tamkalha
Kantur
Bhaura
Bhāti
Dhārārtola
Ghughanpatti
Sakhuri
Lakshmipur
Bhagwatpur
Karīyat
Tilāthi
Ūti
Sahasrām
Balwātol
Kapasia
Rāmnagar
Pipra
Maranma
Chakarāhi
Sūrmāhā
Manikpur Khurd
Patarghāt
Bhaddi
Jamhra
Chanāhi
Sutharia
Bhāgalpur
Bhaddi
Kumrātol
Pahārpur
Rasna
Kantāhi
Siswāpatti
Babhangāwān
Tema
Mahārājganj
Parokia
Rakia
Chatrabān
Jhitkia
Kalotaha
Birgaon
Khirkhiria
Karhara
Tirkona
Gopālitola
Jhakhrān
Sitolpatti
Dhabauli
Jalaiya
Sirha
Sirwo
Pastpār
Hatta
Khāri
Kumrātol
Kishunpur
Bhāgalpur
Bhaddi
Sutharia
Bāgāsinghia
Mokma
Panchlakh
Dudhalia
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Arār Ghāt
Boswāri
Rāhi