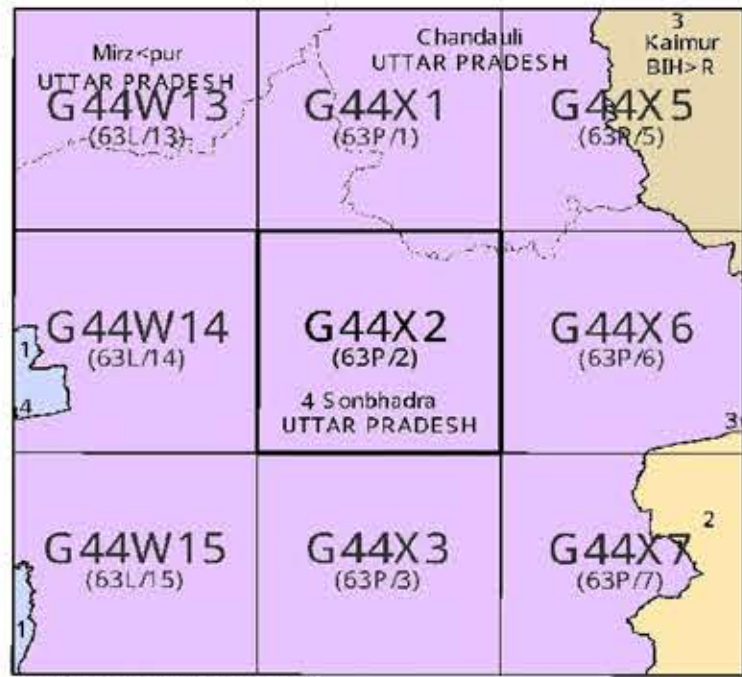


No. G44X2
Scale 1:50,000



भारतीय सर्वेक्षण विभाग SURVEY OF INDIA
1st Edition 2011. Price: Rs. 70/-

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
Stream with track in bed, underflow, Canal
Dams, masonry or rock-built, earthwork, Weir
River, dry with water channel, with sand & rocks, Tidal river
Submerged rocks, Shoals, Swamps, Reeds
Wells, lined, unlined, Tube-well, Spring, Tanka, perennial dry
Embankments, road or rail, tank, Broken ground
Railways, broad gauge, double, single with station, under construction
Railways, other gauges, double, single with distance stone, etc.
Mineral line or tramway, Kin. Culling with tunnel
Contours with subdivisions, Rocky slopes, Gullies
Sand features (Tidal, (Zygodon-fallipermanent), (Zygodon-fallipermanent)
Towns or Villages, inhabited, deserted, Fort
Huts, permanent, temporary, Tower, Antiquities
Temple, Chattri, Church, Mosque, Idgah, Tank, Graves
Lighthouse, Lightship, Buoy, lighted, unlighted, Anchorage
Mine, View on hill, Grass, Scrub
Palms, palm-tree, other, Plantain, Conifer, Bamboo, Other trees
Areas, cultivated, wooded, Surveyed tree
Boundary, international
state, demarcated, undemarcated
district, subdivision, tahsil or block, forest
Boundary pillars, surveyed, unlocated
Height, triangulation, station, point, approximate
Bench mark, geodetic, tertiary, canal
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
Hospital, Dispensary, Veterinary, Hospital / Dispensary
Aerodrome, Heliport, Tourist site
Power line, with pylons surveyed, with poles unsurveyed

Legend

Proposed Forest Land to be diverted
Non Forest Land

Legend

Proposed Forest Land to be diverted
Non Forest Land

NOTES :-

Height in m. and above Indian mean sea level.
Contours are approximate.
A relative height, e.g., 100, represents the approximate height, in metres, between the top and bottom of a steep slope.
Non-perennial portion of the Ghaghara Reservoir is generally cultivated.
Towns, shown dry, in this area usually contain water from July to March.
Water in streams in the plain area of the sheet, only the important ones have been shown.
All unmetalled roads and cart tracks in this sheet are generally not navigable in dry season. Permission to use those along canals is required from Irrigation and Forest authorities respectively.
Non-perennial canals shown in this sheet, generally carry water from July to November.
The kilometre stone numbers along the roads, railways and canals are shown in standard type, e.g., 'S' whereas milestone numbers are shown in script type, e.g., 'S'.

COMPILATION INDEX

A Modern Survey 1966-67, Updated for major details during 2005-07 and administrative boundaries updated during 2008-09.

Projection - UTM Datum - WGS 84
Magnetic Variation from True North about 1° West in 2005.
(Decreasing by about 1" annually)
1:50,000
500 m to 1 cm
Metres 1000 500 250 125 62.5 31.25 15.625 7.8125 3.90625 1.953125 0.9765625 0.48828125 0.244140625 0.1220703125 0.06103515625 0.030517578125 0.0152587890625 0.00762939453125 0.003814697265625 0.0019073486328125 0.00095367431640625 0.000476837158203125 0.0002384185791015625 0.00011920928955078125 0.000059604644775390625 0.0000298023223876953125 0.00001490116119384765625 0.000007450580596923828125 0.0000037252902984619140625 0.00000186264514923095703125 0.000000931322574615478515625 0.0000004656612873077392578125 0.00000023283064365386962890625 0.000000116415321826934814453125 0.0000000582076609134674072265625 0.00000002910383045673370361328125 0.000000014551915228366851806640625 0.0000000072759576141834259033203125 0.00000000363797880709171295166015625 0.000000001818989403545856475830078125 0.0000000009094947017729282379150390625 0.00000000045474735088646411895751953125 0.000000000227373675443232059478759765625 0.0000000001136868377216160297393798828125 0.00000000005684341886080801486968994140625 0.000000000028421709430404007434844970703125 0.0000000000142108547152020037174224853515625 0.00000000000710542735760100185871124267578125 0.000000000003552713678800500929355621337890625 0.0000000000017763568394002500461778106689453125 0.00000000000088817841970012502308890533447265625 0.000000000000444089209850062511504452667236328125 0.0000000000002220446049250312557522263336181640625 0.00000000000011102230246251562787611316680908203125 0.000000000000055511151231257813938056583404541015625 0.0000000000000277555756156289069690282917022705078125 0.000000000000013877787807814453484514145851133525390625 0.00000000000000693889390390722674225707292556676171875 0.000000000000003469446951953613371128536462783388671875 0.00000000000000173472347597680668556426823139169434375 0.000000000000000867361737988403342782134411595847171875 0.0000000000000004336808689942016713910672057979235859375 0.00000000000000021684043449710083569553360289896179296875 0.000000000000000108420217248550417847766801449480896484375 0.0000000000000000542101086242752089238834007247404482421875 0.00000000000000002710505431213760446194170036237202241109375 0.00000000000000001355252715606880223097085018118601120559375 0.00000000000000000677626357803440111548542509059300562596875 0.000000000000000003388131789017200557742712545296502812984375 0.00000000000000000169406589450860027887135627264825140624921875 0.00000000000000000084703294725430013943567813632412557031249609375 0.0000000000000000004235164736271500697178390681620627851562498046875 0.000000000000000000211758236813575034858919534081031392578124901171875 0.0000000000000000001058791184067875174279597670405156962890624500589375 0.000000000000000000052939559203393758713979883520257848144531250002946875 0.00000000000000000002646977960169687935698994176012892407226562500014734375 0.0000000000000000000132348898008484396784949708800644620361328125000073671875 0.000000000000000000006617444900424219839247485440032231018066406250000368359375 0.00000000000000000000330872245021210991962374272001611550903320312500001841796875 0.0000000000000000000016543612251060549598118713600080577545166015625000009208984375 0.000000000000000000000827180612553027479905935680004028877258300781250000046044921875 0.00000000000000000000041359030627651373995296784000201443862915039062500000230224609375 0.0000000000000000000002067951531382568699764839200010072193145751953125000001151123046875 0.00000000000000000000010339757656912843498824196000050360967287895781250000005755615234375 0.0000000000000000000000516987882845642174941209800002518048643944789062500000028778076171875 0.000000000000000000000025849394142282108747060490000125902432197239453125000000143890380859375 0.0000000000000000000000129246970711410543735302450000629512160961972394531250000000719451904296875 0.00000000000000000000000646234853557052718676512250003147560804809619723945312500000003597259521484375 0.0000000000000000000000032311742677852635933825612500015737804024048048096197239453125000000017986297607421875 0.00000000000000000000000161558713389263179669128062500078689020120240240480961972394531250000000089931488037109375 0.000000000000000000000000807793566946315898345640312500393445100601201202402404809619723945312500000000449657440185546875 0.00000000000000000000000040389678347315794917282015625001967225503006006012012024024048096197239453125000000002248287200927734375 0.000000000000000000000000201948391736578974586410078125000983612775030030060060120120240240480961972394531250000000011241436004638671875 0.000000000000000000000000100974195868289487293205039062500049180637515001500300300600601201202402404809619723945312500000000056207180023193359375 0.000000000000000000000000050487097934144743646602519531250002459031875750075015003003006006012012024024048096197239453125000000000281035900115966796875 0.0000000000000000000000000252435489670723718233012597656250001229515937875037500750150030030060060120120240240480961972394531250000000001405179500579833984375 0.000000000000000000000000012621774483536185911650629882812500061475796893750187500375007501500300300600601201202402404809619723945312500000000007025897502899169921875 0.000000000000000000000000006310887241768092955825314941406250003073788984375009375001875003750075015003003006006012012024024048096197239453125000000000035129487514495849609375 0.00000000000000000000000000315544362088404647791265747070312500015368944921875004687500093750018750037500750150030030060060120120240240480961972394531250000000000175647437572479248046875 0.00000000000000000000000000157772181044202323895632873535156250007684472460937500234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000008782371875362396240234375 0.0000000000000000000000000007888609052210116194778143676757812500038422362304687500117187500023437500046875000937500187500375007501500300300600601201202402404809619723945312500000000000439118593751811981201171875 0.000000000000000000000000000394430452610505809738907183837890625000192111811523437500058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000002195592578759406005859375 0.0000000000000000000000000001972152263052529048694535919168945312500009605590576171875000292968750000585937500011718750002343750004687500093750018750037500750150030030060060120120240240480961972394531250000000000010977961368754703029296875 0.000000000000000000000000000098607613152626452443726795958447265625000048027952880859375000146484375000029296875000058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000000548898068437523515146484375 0.0000000000000000000000000000493038065763132262218633979792236328125000024013976440429687500007324218750000146484375000029296875000058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000000274449034218751175757322421875 0.000000000000000000000000000024651903288156613110931698989611816406250000120069882202148437500003662109375000007324218750000146484375000029296875000058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000000137224517109375587878661171875 0.00000000000000000000000000001232595164407830655546584949480590820312500006003494110107421875000018310546875000003662109375000007324218750000146484375000029296875000058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000000068612258554687529393932585546875 0.00000000000000000000000000000616297582203915327773292474744029510156250000300174705505371093750000091552734375000001831054687500000366210937500000732421875000014648437500002929687500005859375000117187500023437500046875000937500187500375007501500300300600601201202402404809619723945312500000000000003430612927734375146969662927734375 0.00000000000000000000000000000308148791101957663886646237372014755078125000015008735275268546875000004577636718750000009155273437500000183105468750000036621093750000073242187500001464843750000292968750000585937500011718750002343750004687500093750018750037500750150030030060060120120240240480961972394531250000000000000171530646386718757348483314638671875 0.00000000000000000000000000000154074395550978831943323118686007377539062500000750436763763427343750000022888183593750000004577636718750000009155273437500000183105468750000036621093750000073242187500001464843750000292968750000585937500011718750002343750004687500093750018750037500750150030030060060120120240240480961972394531250000000000000085765323193359375367424166593359375 0.0000000000000000000000000000007703719777548941597166155934300368876953125000003752183818817136718750000011444091796875000002288818359375000000457763671875000000915527343750000018310546875000003662109375000007324218750000146484375000029296875000058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000000004288266159667968751837120832966796875 0.000000000000000000000000000000385185988877447079858307796715018443847656250000018760919094085893750000005722045898437500000114440917968750000022888183593750000004577636718750000009155273437500000183105468750000036621093750000073242187500001464843750000292968750000585937500011718750002343750004687500093750018750037500750150030030060060120120240240480961972394531250000000000000021441330798339843758935604164833984375 0.0000000000000000000000000000001925929944387235399291538983575092219238281250000009380459547042968750000002861022949218750000005722045898437500000114440917968750000022888183593750000004577636718750000009155273437500000183105468750000036621093750000073242187500001464843750000292968750000585937500011718750002343750004687500093750018750037500750150030030060060120120240240480961972394531250000000000000010720614723916992187544678020824169921875 0.0000000000000000000000000000000962964972193617699645769491787504610961914062500000046902297735214843750000001430511474609375000000286102294921875000000572204589843750000011444091796875000002288818359375000000457763671875000000915527343750000018310546875000003662109375000007324218750000146484375000029296875000058593750001171875000234375000468750009375001875003750075015003003006006012012024024048096197239453125000000000000000536030736195849609375223390104109609375 0.000000000000000000000000000000048148248609680884982288474589375230548045703125000000234511488596893750000000715255737304687500000143051147460937500000028610229492187500000057220458984375000001144409179687500000228881835937500000045776367187500000091552734375000001831054687500000366210937500000732421875000014648437500002929687500005859375000117187500023437500046875000937500187500375007501500300300600601201202402404809619723945312500000000000000026801536809792480468751116950520548046875 0.000000000000000000000000000000024074124304840442491144237294687511527402285617187500000117255744298437500000003576278687302343750000014305114746093750000002861022949218750000005722045898437500000114440917968750000022888183593750000004577636718750000009155273