









	Area and Population of Delhi				
	Area	1484 sq kms			
	Population	18.2 million			
	Population Density	~12,300 persons per sq km			
	Rate of Growth of Population	4.6% per annum			
	Expected Population in 2023	23.0 million			
	Housing Stock	4.0 million			
	New construction/reconstruction	2% every year			
Building 3D Cadastral Complexities in Delhi					



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	Case 4: Involved agencies, 3D aspects				
	Utility Network	Spatial Dimensions in Z	Operating Agency		
1	Sewerage Line	Below Drinking Water Line at Subsurface Level (m in depth) -z	Delhi Jal Board (Water Board) under Delhi State govt.		
2	Drinking Water Line	Subsurface Level (-1.35 m in depth) z	Delhi Jal Board (Water Board) under Delhi State govt.		
3	Internet Optical Fiber Line/ Telephone Lines	Subsurface Level (m in depth) –z	Reliance (Private Concessionaire) & Mahanagar Telephone Nigam Ltd. (Government of India Telephone agency)		
4	Electricity Lines	Subsurface Level (-1.1, -0.6, -0.56, - 0.45 m in depth) –z	BSES, (Private Concessionaire)		
5	Cooking Gas Pipe Line	Subsurface Level (m in depth) –z	Indraprastha Gas Ltd., (Company promoted by public sector gas and petroleum agencies)		
6	Surface Road	Surface Level (0 m in depth) z	Public Works Department, National Highway Authority India, NDMC, DCB, North Delhi Municipal Corporation		
7	City Train Track	Surface Level (0 m in depth) z	Ministry of Railways		
8	Vehicle Flyover	Above Surface Level (5.5 - 6 m in height) +z	Public Works Department		
9	Airport Express Metro Track on Pillars	Above Surface Level (12-15 m in height) +z	Reliance Pvt. Ltd, (Private Concessionaire)		
10	Delhi Metro Track	Above Surface Level (15+ m in height) +z	Delhi Metro Rail Corporation (company with equal participation of Government of India and Government of National Capital Territory of Delhi)		











