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**LIST OF ABBREVIATIONS**

$\mu\text{g}/\text{m}^3$	Microgram per cubic metre
$\mu\text{S}/\text{cm}$	Micro Siemens/centimetre
2-W	2-Wheeler
6L/4L/2L	Six lane/Four lane/Two lane
AAAC	All Aluminium Alloy Conductor
AADT	Annual Average Daily Traffic
ABC	Aerial Bunched Cable
ACA	Additional Central Assistance
ACS	Average Cost of Supply
ACSR	Aluminium Conductor Steel Reinforced
Act 30 of 2013	The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Re-settlement Act,2013
Act No.41 of 1963	The Punjab Scheduled Roads and Controlled Areas Restriction of Unregulated Development Act,1963
AD	Anno Domini
ADV	Animal Driven Vehicle
AHIP	Affordable Housing in Partnership
AICTE	All India Council For Technical Education
AIIMS	All India Institute of Medical Sciences
AMR	Automated Meter Reading
ANM	Auxiliary Nurse Midwife
AOA	Articles of Association
APCS	Air Pollution Control System
ARR	Average Revenue Realized
ASI	Accident Severity Index, Archaeological Survey of India
AT &C	Aggregate Technical and Commercial losses
ATM	Automated Teller Machine
Aug.	Augmentation
B. Arch	Bachelor of Architecture
B.C.	Before Christ

B. Ed	Bachelor of Education
BBMB	Bhakra Beas Management Board
BCM/year	Billion cubic metres/year
BDPO	Block Development and Panchayat Officer
BEN	Beneficiaries
BIS	Bureau of Indian Standards
BML	Bhakra Main line
BMTPC	Building Materials and Technology Promotion Council
BMWT	Bio-Medical Waste Treatment
BNRGSK	Bharat Nirman Rajiv Gandhi Sewa Kendra
BOD	Bio-Chemical Oxygen Demand
BOO	Build Own Operate
BOOT	Build Own Operate Transfer
BOT	Build Operate Transfer
BPL	Below Poverty Line
BPTS	Bus based Public Transport System
BRGF	Backward Regions Grant Fund
BSNL	Bharat Sanchar Nigam Ltd.
BSUP	Basic Services to the Urban Poor
C/N Ratio	Carbon to Nitrogen Ratio
CaCO <sub>3</sub>	Calcium Carbonate
CAPART	Council for Advancement of People's Action and Rural Technology
CBRN	Chemical, Biological, Radiological and Nuclear
CBSE	Central Board of Secondary Education
CCA	Culturable Command Area
CEA	Central Electricity Authority
CETP	Common Effluent Treatment Plant
CFS	Container Freight Station
CGWB	Central Ground Water Board
CHC	Community Health Centre
Ckt.	Circuit
CLU	Change of Land-use
cm	Centimetre

CMA	Counter Magnet Area
CNCR	Central National Capital Region
CNG	Compressed Natural Gas
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
CPCB	Central Pollution Control Board
CPHEEO	Central Public Health and Environmental Engineering Organisation
CPWD	Central Public Works Department
CSO	Central Statistical Organisation
CT	Census Town
CWC	Central Water Commission
D/C	Direct Current
DBU	Designated Best Use
DC	Deputy Commissioner
DDMP	District Disaster Management Plan
DDP	Desert Development Programme, Draft Development Plan
DEL	Direct Extension Lines
DFC	Dedicated Freight Corridor
DGTCP	Director General, Town and Country Planning
DH	District Hospital
DHBVNL	Dakshin Haryana Bijli Vitran Nigam Limited
DHQ	District Head Quarters
DIC	District Industries Centre
DISCOMS	Distribution Companies
DLF	Delhi Land & Finance
DM	Disaster Management
DMA	Delhi Metropolitan Area
DMC	Disaster Management Committee
DMIC	Delhi-Mumbai Industrial Corridor
DMICDC	Delhi-Mumbai Industrial Corridor Development Corporation
DMRCL	Delhi Metro Rail Corporation Limited
DO	Dissolved Oxygen
DoLR	Department of Land Resources



DoT	Department of Telecommunication
DoULB	Department of Urban Local Bodies
DPC	District Planning Committee
DPR	Detailed Project Report
DRDA	District Rural Development Agency
DRRP	Draft Revised Regional Plan 2021 AD
DTH	Down the Hole Hammer
DU	Dwelling Units
DUDA	District Urban Development Authority
DVC	Damodar Valley Corporation
EA-2003	Electricity Act,2003
EAS	Employment Assurance Scheme
EC	Electrical Conductivity
ECB	External Commercial Borrowings
ECC	Exhibition cum-Convention Centre
EfW	Energy from Waste
EIA	Environment Impact Assessment
EPS	Electric Power Survey
ERC	Emergency Response Centres
ERS	Equipment Refinance Scheme
ESI	Employer State Insurance
ETVMs	Electronic Ticketing/Ticket Verification Machines
EWS	Economically Weaker Section
EX IM	Export Import
F.P. Jhirka	Ferozpur Jhirka
FBD	Faridabad
FCI	Food Corporation of India
FDI	Foreign Direct Investment
FICCI	Federation of Indian Chambers of Commerce and Industry
FM	Facilities Management
FSI	Forest Survey of India
FTPH	Faridabad Thermal Power Station
FY	Financial Year

G.I.	Galvanized Iron
GC	Gurgaon Canal
GDP	Gross Domestic Product
GGN	Gurgaon
GHG	Green House Gas
GMR	Grandhi Mallikarjuna Rao
GMUC	Gurgaon Manesar Urban Complex
GOI	Government of India
Govt.	Government
GPRS	General Packet Radio Service
GPS	Global Positioning System
GR	Growth Rate
GSDP	Gross Sub-Region/State Domestic Product
GWS	Gurgaon Water Supply
H	High
H.E.	His /Her Excellency
H.P	Himachal Pradesh
Ha.	Hectare
Ha-m	Hectare Millions
HAREDA	Haryana Renewable Energy Development Agency
HCL	Hindustan Computers Limited
HCV	Heavy Commercial Vehicle
HCZ	Highway Corridor Zone
HDI	Human Development Index
HDN	High Density Network
HDPE	High Density Polyethylene
HEP	Hydro Electric Power
HERC	Haryana Electricity Regulatory Commission
HFC	Highway Facility Centres
HH	Household
HH ind.	House Hold Industries
HQs	Head Quarters
HSAMB	Haryana State Agricultural Marketing Board

HSC	House Service Connection
HSCB	Haryana State Slum Clearance Board
HSIDC	Haryana State Industrial Development Corporation
HSIIDC	Haryana State Industrial and Infrastructure Development Corporation Limited
HSPCB	Haryana State Pollution Control Board
HSR	Haryana Schedule of Rate
HT/LT	High Tension/Low Tension
HTC	Haryana Tourism Corporation
HUDA	Haryana Urban Development Authority
HUDCO	Housing and Urban Development Corporation
HUDES	High Voltage Distribution System
HV	High Voltage
HVPNL	Haryana Vidyut Prasaran Nigam Limited
I	Industrial Areas
I.E.	Industrial Estate
IAY	Indira Awas Yojana
IC	Installed Capacity
ICD	Inland Container Depots
ICT	Information and Communication Technology
IDBI	Industrial Development Bank of India
IDC	Interest During Construction
IDSMT	Integrated Development of Small and Medium Towns
IEC	Information, Education and Communication
IFA	Indian Forest Act
IFC	Integrated Freight Complex
IFFCO	Indian Farmer's Fertilizers Co-operative Limited
IGC	Industrial Growth Centre
IGIA	Indira Gandhi International Airport
IHM	Institute of Hotel Management
IHSDP	Integrated Housing and Slum Development Programme
IIDC	Industrial and Infrastructure Development Centre
ILCS	Integrated Low Cost Sanitation
IMLH	Integrated Multi-Modal Logistic Hub

IMT	Industrial Model Township
IMTP	Integrated Multi-Modal Transport Plan
INTACH	Indian National Trust for Art and Cultural Heritage
INVAR	Nickel Iron Alloy
IPD	Intermittent Peritoneal Dialysis
IPHS	Indian Public Health Standards
IPP	Independent Power Producer
IR	Investment Region
IRORC	Inner Regional Orbital Corridor
IS	Indian Standards
ISDN	Integrated Services for Digital Network
IT	Information Technology
ITC	Industrial Training Centre
ITes	Information Technology enabled services
ITI	Industrial Training Institute
ITS	Intelligent Transport Systems
IWDP	Integrated Wasteland Development Programme
J&K	Jammu and Kashmir
JE	Japanese Encephalitis
JICA	Japan International Cooperation Agency
JJR	Jhajjar
JNNURM	Jawaharlal Nehru National Urban Renewal Mission
K <sub>2</sub> O	Potassium Oxide
Kcal/kg	Kilocalorie per Kilogram
Kg.	Kilogram
KGP	Kundli-Ghaziabad-Palwal
Km	Kilometre
km/h	Kilometres per Hour
km <sup>2</sup>	Kilometre Square
KMP	Kundli-Manesar- Palwal
KV	Kilovolt
KWH	Kilowatt per Hour
L	Low

LCV	Light Commercial Vehicle
LDVs	Locally Dynamic Voltage Scaling
LEL	Lower Explosive Limit
LIG	Lower Income Group
LILO	Loop-in Loop -out
LNG	Liquified Natural Gas
LoS	Level of Service
LPCD	Litres Per Capita Per Day
LPG	Liquified Petroleum Gas
lpm	Litres per Minute
LSD	Lysergic Acid Diethylamide
LUP	Land Use Planning
M	Moderate
M.CI+ OG	Municipal Council and Out Growth
M.Corp	Municipal Corporation
m/s	metre per second
MAF	Million Acre Feet
MAV	Multi Axle Vehicle
Mb	Magen Banwart
MBA	Master of Business Administration
MBIR	Manesar-Bawal Investment Region
MC	Municipal Committee
MCA	Masters of Computer Application
MCF	Municipal Corporation Faridabad
MCG	Municipal Corporation Gurgaon
MCH	Maternal and Child Health Centres
MCM	Million Cubic Metre
mcm/yr	Million Cubic Metre/Year
MD	Ministry of Defence
MDA	Mewat Development Agency
MDB	Mewat Development Board
MDPE	Medium Density Polyethylene
MDR	Major District Road

MDU	Maharishi Dayanand University
Mfg.	Manufacturing
mg/l	Milligram Per Litres
mhos/cm	Unit for measuring conductivity
MI Units	Minor Irrigation Units
MICE	Meetings, Incentives, Conferences and Exhibitions
MLD	Million Litres per Day
mm	Millimetre
MNRE	Ministry of New and Renewable Energy
MoA	Memorandum of Association
MoEF	Ministry of Environment and Forest
MoP	Ministry of Power
MoRTH	Ministry of Road Transport and Highways
MoU	Memorandum of Understanding
MoUD & PA	Ministry of Urban Development and Poverty Alleviation
MPLADS	Member of Parliament Local Area Development Scheme
MRTS	Mass Rapid Transit System
MS	Mild Steel
MSK	Medvedev-Sponnerneur-Karnik
MSMEs	Micro Small and Medium Enterprises
MSW	Municipal Solid Waste
MT	Million Tonne
MTNL	Mahanagar Telephone Nigam Limited
MU	Million Unit
MUL	Maruti Udyog Limited
MVA	Million Volt Amperes
MW	Megawatt
Mw	Molecular Weight
n.e.c	National Electrical Code
NAAQS	National Ambient Air Quality Standard
NAMP	National Air Quality Monitoring Programme
NBC	National Building Code
NBK Link	Narwana Branch Canal link

NBSS	National Bureau of Soil Survey
NCR	National Capital Region
NCR	Northern Central Railways
NCRPB	National Capital Region Planning Board
NCRTC	National Capital Region Transport Corporation
NCT	National Capital Territory
NCTD	National Capital Territory of Delhi
NDDP	Net District Domestic Product
NDMA	National Disaster Management Authority
NEERI	National Environmental Engineering Research Institute
NE-SW	North-East, South-West
NFFWP	National Food For Work Programme
NFL	National Fertilizers Limited
NGO	Non Governmental Organisation
NH	National Highway
NHAI	National Highway Authority of India
NHDP	National Highway Development Program
NIC Code	National Industrial Classification Code,2004
NMDFC	National Minorities Development and Finance Corporation
NMMI	National Mission on Micro Irrigation
NMT	Non-Motorized Transport
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>3</sub>	Nitrate
NO <sub>x</sub>	Nitrogen Oxide
NR	Northern Railways
NRDMS	Natural Resource Data Management System
NREGA	National Rural Employment Guarantee Act
NREGS	National Rural Employment Guarantee Scheme
NRLM	National Rural Livelihood Mission
NRSA	Nation Remote Sensing Agency
NRW	Non Renewable Water
NSS	National Service Scheme
NTP	National Telecom Policy,1999

NUTP	National Urban Transport Policy,2006
NWDA	National Water Development Agency
NWMP	National Water Quality Monitoring Programme
NWR	Northern Western Railways
NYKS	Nehru Yuvak Kendra Sanghathan
O&M	Operations and Maintenance/ Organization and Management
OD	Origin Destination
ODRs	Other District Roads
OFC	Optical Fibre Cable
OHSR	Over Head Supply Reservoir
OPD	Out Patient Department
ORC	Orbital Rail Corridor
p.a.	Per Annum
P <sub>2</sub> O <sub>2</sub>	Diphosphorus Dioxide
PCB	Pollution Control Board
PCCs	Pollution Controlled Committees
PCU	Passenger Car Unit
PD	Private Developer
PF	Protected Forest
PFC	Power Finance Corporation
PGCIL	Power Grid Corporation of India Limited
PGIMS	Post-Graduation Institute of Medical Science
pH	Potential of Hydrogen
PHC	Primary/Public Health Centre
PHED	Public Health Engineering Department
PIS	Passenger Information System
PLPA,1900	Punjab Land Preservation Act,1900
PM <sub>10</sub>	Particulate Matter of 10 Micron
PM <sub>2.5</sub>	Particulate Matter of 2.5 Micron
PMGSY	Pradhan Mantri Gram Sadak Yojana
PNG	Purified Natural Gas
PNP	Panipat
PPA	Pollution Prevention Act



PPH	Person Per Hectare
PPP	Public-Private Partnership
PRR	Panipat-Rohtak-Rewari
PTC	Power Trading Company
PTPP	Panipat Thermal Power Plant
PTPS	Panipat Thermal Power Station
PVC	Polyvinyl Chloride
PWD(B&R)	Public Works Department(Buildings& Roads)
QPR	Quarterly Progress Report
R	Residential and other areas
R&D	Research and Development
R-APDRP	Restructured Accelerated Power Development and Reforms Programme
RAPP	Rajasthan Power Project
RAY	Rajiv Awas Yojana
RDMD	Relief and Disaster Management Department
RE	Rural Electrification
REC	Rural Electrification Corporation
REDB	Rural Electrification Distribution Backbone
REF	Real Estate Funds
RGEC	Rajiv Gandhi Education City
RKVY	Rashtriya Krishi Vikas Yojana
RLBs	Rural Local Bodies
ROB	Rail Over Bridge
RORC	Regional Orbital Rail Corridor
ROW	Right of Way
RP	Regional Plan 2021 AD
RRTS	Regional Rapid Transport System
RRY	Rajiv Rinn Yojana
Rs.	Rupees
RSI	Rural Small Scale Industries
RSPM	Respirable Suspended Particulate Matter
RSVY	Rashtriya Sam Vikas Yojana
RTK	Rohtak

S/Stn	Sub-Station
SARS	Severe Acute Respiratory Syndrome
SBB	State Biodiversity Boards
SC	Scheduled Caste
SCA	Special Central Assistance
SCADA	Supervisory Control and Data Acquisition
SD	Sub-Divisional
Sec.	Sector
SERC	State Electricity Regulatory Commission
SEZ	Special Economic Zone
SGRY	Sampoorna Gramin Rozgar Yojana
SGSY	Swaranjayanti Gram Swarozgar Yojana
SH	State Highway
SHGs	Self-Help Group
SHM	Seismic Hazard Micro/zonation
SJSRV	Swaranjayanti Gram Shehri Rozgar Yojana
SME	Small and Medium Enterprises
SMS	Short Message Service
SNP	Sonipat
SO	Special Order
SO <sub>2</sub>	Sulphur Dioxide
SO <sub>4</sub>	Sulphate
SOI	Survey of India
SPCB	State Pollution Control Board
SPM	Suspended Particulate Matter
SPV	Special Purpose Vehicle
SPV	Solar Photovoltaic
Sq. Ft	Square Feet
Sq. inch	Square Inch
Sq. Km	Square Kilometre
Sq.mtr	Square Metre
SRP	Sub-Regional Plan
SS	State Share

SSI	Small Scale Industries
STD	Subscriber Trunk Dialling
STP	Sewerage Treatment Plant
SUH	Shelter for Urban Homeless
SURS	Sub Urban Rail System
SWM	Solid Waste Management
SWOT	Strength, Weakness, Opportunity and Threat
SYL	Satluj Yamuna Link
T&CP	Town and Country Planning Department
T&D	Transmission and Distribution
Tech. Dept	Technology Department
TEU	Twenty Foot Equivalent Unit
TOD	Transit Oriented Development
TPD	Tonne per Day
TPP	Thermal Power Plant/Project
TSC	Total Sanitation Campaign
TSDCF	Treatment, Storage and Disposal Facilities
TSPs	Telecom Service Providers
TW	Tube Well
U.K.	Uttrakhand
U.P	Uttar Pradesh
U/G	Under Ground
U/P	Under Process
U/S	Under Section
UA	Urban Agglomeration
UDPFI	Urban Development Plans Formulation and Implementation
UFW	Unaccounted for water
UHBVNL	Uttar Haryana Bijli Vitran Nigam Limited
UIDSSMT	Urban Infrastructure Development Scheme for Small and Medium Towns
ULBs	Urban Local Bodies
UMPP	Ultra Mega Power Project
UNDRO	United Nations Disaster Relief Organisation
USOF	Universal Service Obligation Fund

UWSP	Urban Woman Self Help Programme
V/C Ratio	Volume to Capacity Ratio
VRs	Village Roads
W.B.	West Bengal
WAPCOS	Water and Power Consultancy Services Limited
WFPR	Work Force Participation Rate
WHO	World Health Organisation
WJC	Western Yamuna Canal (J is Jamuna-old)
WL	Weight List
WPI	Wholesale Price Index
WTE	Waste to Energy
XLPE	Cross Linked Polyethylene
YKK Ltd.	Yoshida Kogyo Kabushiki
YMCA	Young Men's Christian Association