TRANSPORT & CIRCULATION INFRASTRUCTURE (T&CI)

MOST ESSENTIAL REQUIREMENT OF NCR & DELHI

INTEGRATIONS OF

1. STATUS OF POPULATION AND ITS GROWTH IN DIFFERENT PARTS OF DELHI
2. SETTLEMENT SYSTEM OF NCR; CNCR; NCTD
3. INTEGRATION OF ROAD SYSTEM OF NCR, CNCR & NCTD
   3.1 WESTERN EXPRESSWAY
   3.2 EASTERN EXPRESSWAY
   3.3 NEW BY PASSES TO DECONGEST NATIONAL HIGHWAYS NO.1, 2, 8 & 10
   3.4 HIGH RELIEF ROAD AT KALANDI KUNJ
   3.5 EIGHT LANES LINK ROAD CONNECTING RING ROAD AND OUTER RING ROAD
      ALONG WESTERN CANAL IN WEST DELHI
   3.6 URBAN RELIEF ROADS (MPD-2021AD)
   3.7 ROB; RUB, AND CLOVER LEAF AT REQUIRED INTERSECTIONS
   3.8 TRANSPORTATION: ROADS, RAILS & MRTS NETWORK
   3.9 BRTS; LONG TERM PLAN OF 26 CORRIDORS
   3.10 BRT AT PLUS AND MINUS LEVELS
4. PARKING PROBLEMS
5. STREET FURNITURE
6. CHARACTER INFRASTRUCTURE
7. PROVISION OF TRANSPORT AND CIRCULATION INFRASTRUCTURE AT NCR
   7.1 NCR (PROPOSED TRANSPORT NETWORK - ROADS - 2021AD)
   7.2 NCR (PROPOSED TRANSPORT NETWORK - RAILS - 2021AD)
   7.3 CNCR (CENTRAL NATIONAL CAPITAL REGION)
8. REGIONAL LINKAGE FOR FAST MOVING TRAINS
2.2.2 Other areas of NCR (13 in Nos.)

2.2.3 New Development other than given in NCR document
Thirteen many cities along west and east Expressway - Road system (3.11 & 3.12)

2.2.4 A new Sports City along Yamuna Expressway in a total area of 200.0 sq km. consisting of (i) Retail and Recreational Zone, (ii) International Cricket Zone, (iii) The Kove (Residential area), (iv) International Motor racing track, (v) Hockey and Tennis academies, (vi) The Krown (Residential area), (vii) Commercial and Business Zone, (viii) 18 Hole Golf Course, (ix) Kassia (Residential area), (x) 16.7 Km. long green boulevard, (xi) 80 hect Educational Hub with a University and Medical Centre. This entire township will be in between Yamuna Expressway & river Yamuna.

2.2.5 Development of Yamuna Expressway up to Jevar Master Plan of 1st part has been prepared of a total area of 584 sq.km. for the period 2011 – 2031 AD with a provision of 23 residential sectors and 15 industrial sectors along with all required necessary facilities with 25% as green.

3 INTEGRATION OF ROAD SYSTEM

3.1 Western Expressway
Kundli—Manesar—Palwal Expressway (At the Regional level)
It starts from NH-1, cutting across NH-10 then NH-8 and then NH-2. Total length of this corridor is 136 km. There is a proposal to develop of 13 theme cities along with Kundli Expressway. This will control population of Delhi up to some extent.

3.2 Eastern Expressway
Kundli-Dasna-Palwal Expressway at the Regional Level
This will start from Kundli (Haryana) at the junction of NH-1; Mavikala (On the road) from Delhi to Baghpat; Dufai on NH-58 (from Delhi to Meerut); Dasna (from Delhi to Harpur on NH-24); Beel Akbarpur (on NH-91) from Ghaziabad to Sikrandrab; Bridge on river Yamuna and Palwal on NH-2. This Expressway will connect Sonipat in Haryana, Baghpat in UP, Ghaziabad and Gautam Budh Nagar in UP. It will cross river Hindon; Dasna on NH-24; Sikrandab and Jawer. It needs construction of two bridges on river Yamuna and one on river Hindon.
Cost of this is Rs.2700 Crore and in a total length of 135 Km. Progress of planning, development and construction is very very slow.

New bypasses to decongest. National Highways No.1, 2, 8 & 10
(i) UER-I will connect Wazirabad bypass to NH-1, 10 and 8 and will be 57.24 km. long
(ii) UER-II will connect Wazirabad bypass to NH-1, 10, 8 and 2 and will be 73.7 km long

THESE 60 SETTLEMENTS IN CATEGORY
2.2.1; 2.2.2; 2.2.3; 2.2.4 & 2.2.5 HAVE TO BE MADE ATTRACTIVE BY PROVISIONS OF (I) LARGE RECREATIONAL AREAS, (II) LARGE SOCIAL INSTITUTIONS (EDUCATIONAL, HEALTH AND CULTURAL), (III) ICT INDUSTRY, (IV) GOOD ROAD SYSTEM, (V) METRO IN EACH SETTLEMENT, (VI) ADEQUATE PARKING AREAS & (VII) ‘RAILWAY FAST SERVICE’ FROM DELHI TO ALL THE SETTLEMENTS HAVE TO BE THERE SO THAT POPULATION LIVE THERE AND DO NOT MIGRATE TO DELHI.

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2.1 NCTD – DELHI (with a population of 16.5M in a total area of 1487 sq.km. with land use break up in 1999; Built up area = 47.31%; Natural features = 15.95%; Land required for services, MRTS and agriculture = 20.9% and actual land available for urbanization between 2000 – 2021 = 18.63% or 27,629 hect.
NCTD will have a total urbanized area = 2021 = 18.63% or 27,629 hect.

2.2 NCR (in a total area of 33,578 sq.km, for a predicted pop. 64 M with a break up of 23.4 M – NCTD; 16 M – Haryana; 4.8 M – Rajasthan; 19.8 M – U.P.)
2.2.1 Settlements in Central Areas of NCR (9 in Nos.)

2.2.2 Other areas of NCR (13 in Nos.)

2.2.3 New Development other than given in NCR document
Thirteen many cities along west and east Expressway - Road system (3.11 & 3.12)

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3 INTEGRATION OF ROAD SYSTEM

3.1 Western Expressway
Kundli—Manesar—Palwal Expressway (At the Regional level)
3.4 High Relief Road

It’s part of 42.5 km. (6.3+7.4+27.0) long NH-2 bypass proposed to be constructed by Delhi & Haryana Govt.

(i) From Maharani Bagh to Kalinidi Kunj (6.3 km.)
(ii) From Kalindi Kunj to Badarpur (7.4 km.)
(iii) From Badarpur to Faridabad (27 km.)

Total 151.74 km.

SO FAR, ALIGNMENT OF THESE 3 UER (I), (II) & (III) ARE IN CONTROVERSY. A RESEARCH HAS TO BE MADE WHETHER THESE SHOULD OR SHOULD NOT BE THERE.

3.5 Urban Relief Roads (MPD-2021 AD)

(i) Shankar Road – alternative elevated road may be explored.

(ii) Vikas Marg

(iii) Extension of NH-24 to join Mathura Road (near Humayun’s Tomb)

(i) Prem Bari Pul (Pitampura) to Outer Ring Road along disused Western Yamuna Canal.

(ii) Road between Nehru Place and Hotel Park Royal to be extended up to Lotus Temple and towards East of Kailash, if feasible.

(iii) Karol Bagh (new Rohtak Road) – alternative alignment by extending Arya Samaj Road through Anand Parbat to connect existing roads leading to Patel Road and Shivaji Marg on ROB or RUB.

3.6 BRT – Long Term Plan of 26 corridors of BRT.


3.7 BRT AT PLUS & MINUS LEVELS

1. BRT AT MINUS 5.5M LEVEL

2. BRT BELOW AND ABOVE THE NALLAHS. NUMBER OF DRAINS / NALLAHS HAVE BEEN GIVEN UNDER.

3.8 BRT AT PLUS & MINUS LEVELS

1. BRT AT MINUS 5.5M LEVEL

2. BRT BELOW AND ABOVE THE NALLAHS. NUMBER OF DRAINS / NALLAHS HAVE BEEN GIVEN UNDER.

Source: Delhi Master Plan (Page no. 147)

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cont...
4 PARKING PROBLEMS

4.1 Provision of parking norms have been given in the MPD-2021 AD and are as under:
(i) Residential – 2.0 ECS
(ii) Commercial – 3.0 ECS
(iii) Manufacturing – 2.0 ECS
(iv) Government – 1.8 ECS and
(v) Public and Semi Public facilities – 2.0 ECS

4.2 Space Standards for Car Parking

TYPE OF PARKING  AREA IN SQM. PER ECS
OPEN 23
GROUND FLOOR COVERED 28
BASEMENT 32
MULTI LEVEL WITH RAMPS 30
AUTOMATED MULTI LEVEL WITH LIFTS 16

5 STREET FURNITURE

(i) Proper signage’s at all the intersections.
(ii) Tree Plantation along roads,
(iii) Dustbins, dhalaos & garbage depot,
(iv) Special illumination at different intersections,
(v) Speed breakers, properly painted and with sign boards.

6 CHARACTER INFRASTRUCTURE

TO CREATE

- Love
- Truth
- Virtue
- Freedom
- Honesty
- Justice
- Liberty
- Tolerance
- Balance
- Self-Control
- Self-Sacrifice
- Selflessness
- Asceticism
- Curiosity
- Contentment
- Forgiveness
- Serenity
- Energy
- Creativity
- Industriousness
- Industriousness
- Balance
- Self-Control
- Self-Sacrifice
- Selflessness
- Asceticism
- Curiosity
- Contentment
- Forgiveness
- Serenity
- Energy
- Creativity
- Industriousness
- Industriousness

TO HAVE

- Harmony
- Respect
- Responsibility
- Morality
- Self Control
- Modesty
- Honesty
- Discipline
- Integrity
- Industry
- Self Realization
- Hospitality
- Kindness
- Humility
- Balance
- Self-Control
- Self-Sacrifice
- Selflessness
- Asceticism
- Curiosity
- Contentment
- Forgiveness
- Serenity
- Energy
- Creativity
- Industriousness
- Industriousness

7 PROVISION OF TRANSPORT AND CIRCULATION INFRASTRUCTURE AT NCR & CNGR

8 8 RAPID RAIL PROJECT

1. Narela-Sonepat and Panipat
2. Nangloi-Bahadurgarh and Rohtak
4. Sahibabad-Ghaziabad and Meerut.
5. Ghaziabad-Hapur and Khurja.
6. Tilak bridge-Noida and Dadri.
7. Tughlakabad-Ballabgarh and Palwat.
8. Shadhar- Shamli

9 SOME IMPORTANT UPDATE FROM NEWSPAPER’S
### WATER SUPPLY SCENARIO IN 2011

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Source of Raw Water</th>
<th>Name of The Plant</th>
<th>Installed Capacity in 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>River Yamuna</td>
<td>Chandrawal I &amp; II</td>
<td>90MGD</td>
</tr>
<tr>
<td>2</td>
<td>River Yamuna</td>
<td>Wazirabad I, II &amp; III</td>
<td>120MGD</td>
</tr>
<tr>
<td>3</td>
<td>Bhakra Storage</td>
<td>Haiderpur I</td>
<td>100MGD</td>
</tr>
<tr>
<td>4</td>
<td>Yamuna</td>
<td>Haiderpur II</td>
<td>40MGD</td>
</tr>
<tr>
<td>5</td>
<td>Bhakra Storage</td>
<td>Nangloi</td>
<td>40MGD</td>
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<tr>
<td>6</td>
<td>Upper Ganga Canal</td>
<td>Bhagirathi</td>
<td>100MGD</td>
</tr>
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<td>7</td>
<td>Sub-Surface Water</td>
<td>Ranneywell/ Tubewell</td>
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</tr>
<tr>
<td>8</td>
<td>Upper Ganga Canal</td>
<td>Sonia Vihar</td>
<td>140MGD</td>
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<td>9</td>
<td>Saving from seepage</td>
<td>-do-</td>
<td>Dwarika</td>
</tr>
<tr>
<td>10</td>
<td>-do-</td>
<td>Bawana</td>
<td>20MGD</td>
</tr>
<tr>
<td>11</td>
<td>-do-</td>
<td>Okhla</td>
<td>20MGD</td>
</tr>
<tr>
<td>12</td>
<td>-do-</td>
<td>Recycling of wastewater at water treatment plants</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>940MGD</strong></td>
</tr>
</tbody>
</table>

Source: MPD 2021 AD annexure a page no. 266

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**Development of The River Yamuna**
OBJECTIVES
1. Increase quantity of water at least ten times.
2. To clean water to improve its quality by stopping entry of polluted sewage in the River.
3. To remove sub-standard developments and ban in the future.
4. To develop Indrapratha Pauri to revive the history of Indrapratha Estate.
5. To provide attractive River fronts with recreational facilities, namely lakes and Biodiversity Parks etc.
6. To provide additional traffic corridors along with both the banks of the River.

PHYSICAL DIMENSIONS OF THE RIVER
1. Length in NCTD 50 kmt. with half in north & the balance in the south of Wazirabad Barrage.
2. Width varies from 1.5 kmt. to 3 kmt.
3. Total area 97sq. kmt.
4. Area under water 16.45 sq. kmt.
5. Dry land including existing structures 80.55 sq. km.
   (i) Wazirabad barrage - 455 mts.;
   (ii) ISBT road bridge - 552 mts.;
   (iii) Old rail cum road bridge - 800 mts.;
   (iv) Indraprastha barrage- 552 mts.;
   (vi) Nizamuddin railway bridge- 552 mts.;
   (vii) Nizamuddin road bridge - 549 mts.;
   (viii) Okhla Weir - 791 mts.;
   (ix) Okhla barrage - 554 mts.

PROPOSAL
1. A barrage is proposed to be constructed about 8 km North of Wazirabad Barrage to control River Yamuna Water.
2. Existing LMB & RMB be used as Eastern & Western boundary of the new water body/Lake/Green areas.
3. Entire area between left & right boundary of the lake will be full of water with depth between 4 to 5 M by dragging.
4. In the Northern boundary Expressway will be there.
5. Toward Eastern & Western side new highways are proposed as a boundary of the scheme.
6. This area would have much more water, which can partly be used for surface water and ground water.
7. Ground water will be used for by the people of NCTD as well as U.P.
8. It is assumed that U.P. will handover this part of the land free of cost or on nominal price @ Rs. 1 per sq. yard
9. Left out portion will be used for (i) Recreational areas; (ii) Biodiversity parks; and (iii) some large green buildings

10. QUANTITY OF WATER AT PRESENT & AFTER THE PROPOSAL

10.1. Present Position
At present the quantity of water is in 1645 hect. with a depth between 1.5M to 2.0M. On this basis volume of water would be 1645 hect. x 1.75 M = 2.88 X 10^5 Cubic Meters in the entire River Yamuna in the portion of NCTD.

10.2. Out of this 60 % i.e. 1.73 lakhs cubic metre is in the north of existing Wazirabad barrage and the balance in the south. This water quantum in the north is proposed to be increased to 22.55 lakhs cubic meter.

10.3. Area in the North of Wazirabad barrage is drastically changed by increasing the surface area of water and depth to an average of 4.5 M. Water quantum would be = 5012 hect. (surface area of the new lake) x 4.5 M = 22.55 lakhs cubic meter.

TO INCREASE THE QUANTITY OF WATER AT LEAST 10 TIMES

1982 में गिल्ली को पूर्वी खोंटों को इसके पूर्वी खीर पर गिल्लीकूप, विवर्तनपूर्व और कल्याणपूर्व अर्धशंक में आए। पूर्वी यूपी गिल्ली पर हंगरों के इंजीनियरिंग विश्वेस्टर्स का बनाना। 1990 तक पूर्वी यूपी गिल्ली को लाभी जग, पट्टराजवंश, मुज़फ्फर विश्वास और नोरा इसके फिल्टर के लिए।

TO CLEAN WATER TO IMPROVE ITS QUALITY

PRESENT POSITION
1. Practically no drain towards left marginal bund
2. Towards western marginal bund From Wazirabad barrage to Tughalakabad there are 16 drains namely: (i) Najafgarh drain; (ii) Magazine road; (iii) Sweeper colony; (iv) Kheyber pass; (v) Matecalf house; (vi) Qudsia bagh; (vii) Moat drain; (viii) Mori gate drain; (ix) Civil Mill; (x) Rajghat; (xi) Sen Nursing Home; (xii) Drain no. 14; (xiii) Bara Pulla; (xiv) Maharani Bagh; (xv) Kalkaji; (xvi) Tughalakabad drain.
PROPOSAL: To clean the water

- Construct a conveyance sewer of 32 km in length from Wazirabad barrage to somewhere in the South of Okhla Barrage
- This conveyance sewer will be of RCC with a base of 2.5 M and height 3 M on either side of the base. This will be open to sky and structurally will take the load of entire sewage
- Sewage drains will fall into it and the entire affluent will go to 300 MGD sewage treatment plant to be constructed in the South of Okhla. From this new structure filth/sewage will flow into newly constructed sewage treatment plant treat it and then treated water into river Yamuna.
- After treatment of the sewage, the cleaned water will flow into the river Yamuna and filth may be used for manure etc.

DEVELOPMENT OF INDRAPRASTHA PAURI

LOCATION

This is in the South of ITO Bridge; In the West of River Water; In the North of old C. Power station and In the East of Mahatma Gandhi Marg(Ring Road)

AREA | 100 hect.

INDRAPRASTHA PAURI

- Two types; both paid one of Rs. 5 per head and second of Rs. 50 per head. The amount would be used only for the maintenance of the complex
- One water treatment plant
- Levels of these ghats would be such that the entire area remains dry
- One statue of Lord Shiva and one museum of River Yamuna
- Public conveyances 20 in nos. separate of males and females and equal no. of changing rooms
- Many platforms for yoga etc.
Comprises the ghats including Kudiesia ghat. Here, amenities for ghats to be improved along with laying foundation of flower garden and parking spot.

Recreational (Eastern Bank)

Will have the riverfront walk bisecting through the area. dotted by kiosks, greenways, playground, nursery and wetland like lakes.

Biodiversity Park (Western Bank)

Falls in the protective core zone of the concept plans, where substantial pockets of undistrubed land would be developed as a biodiversity park.

**Fact about Yamuna**

- There are 17 drains entering Yamuna in Delhi and almost 3,500 million liter of waste water enters Yamuna everyday without any treatment.
- Delhi generates about 3,267 million litres per day (mld) of sewage while the city's installed waste water treatment capacity is only 2,330 mld. More than 937 mld of waste is not treated.

### PROPOSED LANDUSE BREAK-UP OF ENTIRE COMPLEX

<table>
<thead>
<tr>
<th>Use</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
<th>% age</th>
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<tbody>
<tr>
<td>Recreational</td>
<td>1274</td>
<td>4506</td>
<td>506</td>
<td>100</td>
<td>6296</td>
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<tr>
<td>Residential</td>
<td>140</td>
<td>–</td>
<td>–</td>
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<tr>
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<td>127</td>
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<td>31</td>
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<tr>
<td>Utilities &amp; services</td>
<td>125</td>
<td>–</td>
<td>50</td>
<td>100</td>
<td>175</td>
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<td>150</td>
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<td>High-tech working area</td>
<td>–</td>
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<td>100</td>
<td>100</td>
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<tr>
<td>Total</td>
<td>1731</td>
<td>4506</td>
<td>506</td>
<td>531</td>
<td>7274</td>
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<tr>
<td>%age</td>
<td>23.8</td>
<td>61.9</td>
<td>6.9</td>
<td>7.4</td>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>

Source: Annexure -1 MPD-2021 AD

### TOTAL COST OF DEVELOPMENT OF THE PROJECT : (In Rs. Lakh)

1. Cost of acquisition / transfer of land:
   - 29,100

2. Cost of trunk circulation system:
   - 15,375

3. Cost of general filling in the ground:
   - 22,670

4. Cost of development of land:
   - 52,010

Total = 119,095

5. Water pondagess & Lakes:
   - 15,000

6. Renovation of Ghats:
   - 6,500

7. (a) North of Wazirabad:
   - 1000

8. (b) Nigam Bodh Ghat:
   - 500

9. (c) Redevelopment of existing structures & ghats:
   - 5000

10. (v) Conveyance System:
    - 25,000

11. (vi) Pumping & Treatment Works in south of Nizamuddin bridge:
    - 45,000

12. (vii) Pumping & Treatment Works at the mouth of supplementary Najafgarh drain:
    - 35,000

13. (viii) Water treatment plant/plants:
    - 10,000

14. (ix) Rehabilitation of Jhuggies/settlement:
    - 10,000

Grand Total:
280,595 lakhs or Rs. 2806 cr.

Source: Annexure -1 MPD-2021 AD