



# PUBLIC WORKS DEPARTMENT

लोक निर्माण विभाग

*E-Newsletter*

ई - समाचार पत्र

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From the Desk of Secretary & E-in-C PWD

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Please send your suggestions to: Public Works Department  
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Inauguration of Elevated Road Mangolpuri to Madhuban Chowk on Outer Ring Road on Sunday, 17<sup>th</sup> Jan.' 2016 Presided over by **SH. Satyender Jain** Hon'ble Minister of Health, Industries, Home, Public Works Department and Power constructed by Public Works Department at Deepali Chowk side ramp of Elevated Road.

Hon'ble Chief Minister, Delhi Sh. Arvind Kejriwal speaking on the occasion:



Work on this project was completed on fast track in record time and the govt. will do the same for other projects as well.

This was the first time that a flyover, has been built at a cost lower than the sanctioned cost. There has been saving of Rs. 100/- crores in recently inaugurated elevated corridor of Prem Bari and Rs. 125/- crores has been saved on this project and similarly Rs. 125/- crores will be saved in Project to be inaugurated soon. The amount thus saved of Rs. 350/- crores will be utilized for condoning the service charges of X-Ray, Ultrasound etc. & availability of all medicines in Delhi Govt. Hospitals for the benefit of all the people of Delhi.



**Dear Readers,**

This Inaugural issue of **PWD Newsletter**, converges with successful completion of first year of our Government and Basant Panchmi. I convey my Greetings and best wishes to all readers on this occasion. May Goddess Saraswati Continue to leads us towards light and knowledge.

This Newsletter will be a medium to showcase the efforts of multitude of people in PWD who are planning and working hard to achieve the infrastructural goals, cherished for Delhi.

This Newsletter will further serve to improve interaction and integration among the citizens and Government through increased sharing of information.

The success of PWD projects depends on equal partnership and I look forward to the valued and continued cooperation from citizens of Delhi for fostering a sound partnership to achieve the targets.

Giving my best wishes to the readers, I assure that we are all proud of Delhi and together, we will make it a city to be proud of.



**SATYENDAR JAIN**



**S K Srivastava**

The Officers and Staff of PWD (GNCTD) have contributed immensely in the creation and maintenance of infrastructure essential for smooth functioning of the National Capital. Whenever need arose, they have also performed tasks beyond their duties, to better the living conditions in the city such as removal of malba as part of Swaach Bharat Abhiyan and garbage during the strike by the sanitation workers of MCD.

It is in the fitness of things that the contribution made by PWD is documented and circulated for information of all concerned in order to spread awareness and acknowledge the sincere efforts made by PWD Officers and staff in betterment of Delhi.

I am glad that efforts in this direction are being made through this Newsletter which would go a long way in spreading awareness about the activities of PWD and place on record the appreciation for good work being done by PWD Officers and Staff.

My best wishes to all the team members for success of this endeavor.

# Projects recently dedicated to Public

## Mangolpuri to Madhuban Chowk and Madhuban Chowk to Mukarba Chowk on Outer Ring Road

A sustainable and efficient infrastructure development is a key component, to connect and integrate cities to better serve their citizens. As part of the infrastructure development initiatives to decongest and enhance the Outer Ring Road connectivity, Govt. of Delhi proposed the development of a six lane elevated road covering four major junctions between Mangolpuri to Madhuban Chowk i.e. Som Vihar Chowk, Pitampura Police Line Chowk (Mangolpuri Marble Market), Rohini T-Junction (Jaipur Golden Hospital), Deepali Chowk.

Post completion of project and other ongoing projects of signal free corridor in the stretch from Vikaspuri to Meerabagh, Madhuban Chowk to Mukarba Chowk and Mukarba Chowk to Wazirabad, movement on the Outer Ring Road from Janakpuri District Centre to Majnu Ka Tilla T- Junction will become completely signal free.

Additionally, the road on the ground level has been widened to a four lane carriageway to facilitate smooth movement of all types of vehicles on the main carriageways and to ensure safe movement of non-motorized vehicles and pedestrians.

The intersections are designed for efficient & quick dispersal of all modes of transport from main carriageways. Pedestrian crossings have been upgraded on all the grade level intersections as per UTTIPEC guidelines.

Delhi PWD's constant endeavor is to apply innovation, industry best practices and previous learning's thereby giving each project certain characteristics that are unique.

### Key Facts of Mangolpuri to Madhuban Chowk:-

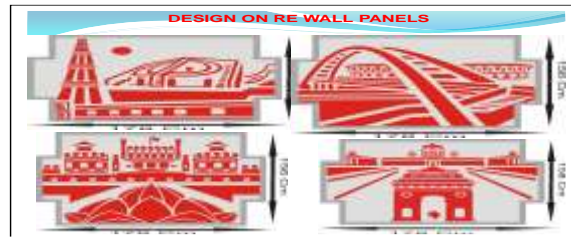
Road Covered	<b>Length= 3.90 kms, Right of Way= 60 meters</b>
Elevated Corridor	Length = 2.60Kms, Width = 24.20 meters, 3 Lane carriage way on both side
Ground Level Development	<b>Traffic Flow</b> 4 + 4 lane main carriage way below elevated corridor for local traffic 5 meter wide service road on both side for two way movement of local traffic
	<b>Public Transport</b> 3.50 meter wide Bus Lane on both side and additional Bus bays at bus stops 2 m wide Cycle Track and non-motorized vehicle lane
	On each side, 2.50 m wide main footpath and 1.50 m wide footpath at the end of ROW
	<b>Other Development</b> Green Belt, Rain Water Harvesting trough drain Street Scaping, Street Lights
Junctions Covered	Som Vihar Chowk, Pitampura Police Line Chowk (Mangolpuri Marble Market), Rohini T-Junction (Jaipur Golden Hospital), Deepali Chowk

#### Quality Assurance

- Extra High Assurance level/Class' as per IRC: SP -47 & IRC: SP-57
- Third Party Quality Assurance by the Central Road Research Institute (CRRI)
- MORTH Specifications 2001 (4th Edition) relevant IS Codes as applicable
- IRC Codes with latest edition including design for Seismic Resistance

#### Local Communities Benefitted

Mangolpuri, Pitampura, Rohini Sector-3 to 8, Saraswati Vihar etc.



## Structural Excellence

- Single 3 x 3 meter pier on the central verge with pier spacing of approximately 36 meter to support a 24.2 meter wide six lane elevated road
- The deck has been constructed with precast segments joined with longitudinal post-tensioning to form the central spine. Additional cantilever wings on both sides have been added with the central spine with lateral post-tensioning.
- Precast segments for the deck have been cast with M-60 grade concrete. Segments were erected using auto launching girders and cantilever **launching frames, which ensured un-interrupted traffic movement underneath during construction.**

### Accessibility

- All the footpaths will have continuity in both the directions with the help of table tops so that disabled people have uninterrupted access throughout the footpath.

## Sustainability & Social Impact

- **Ground Water Recharging:** Storm water drain constructed on both sides of the road also has provision for percolation of water into the ground at every 5 meter interval. This will ensure recharging of ground water. Recharging of ground water with this huge quantity of rain-water will be an important carbon offset initiative of this project.
- **Noise Reduction:** Noise barrier to reduce the noise level by around 16dB as per CRRI certification solving a long standing issue for the occupants of adjacent buildings.
- **Utilization of fly ash:** Approximately 5000 Cubic meter of fly ash was utilized in construction of approach ramps to the elevated road.
- **Reduction of Carbon Dioxide Emissions:** Smooth and uninterrupted movement of traffic on this stretch would save emission of at least 29 Tonnes of carbon dioxide per day. 4.91 Lakh trees would be required to absorb this much amount of CO<sub>2</sub> under normal conditions.

## Clean Delhi - Felicitation of PWD Engineers for performing uphill task to keep Delhi clean and hygienic during the strike by MCD Sanitation Staff

It was an honour to the PWD to have Hon'ble Chief Minister of Delhi to grace the occasion for felicitation of PWD Engineers for performing uphill task to keep Delhi clean and hygienic during the MCD strike for three weeks during the January 2016 & February 2016.

During this period the task for keeping Delhi clean was assigned by Hon'ble CM to PWD Restoring faith in PWD. PWD under the able guidance of Hon'ble CM and Hon'ble PWD Minister left no stone unturned to follow the direction and worked day & night and kept the operation ongoing with more than 120 machines. Entire PWD staff got involved relentlessly into the operation. The effort showed result and the public of Delhi were saved from unhygienic conditions and filthy conditions like to happen due to MCD strike. All the Dhallao and roads were cleared from garbage and malba. PWD had to face huge resistance from the MCD striking staff. PWD staff and workers were also man handled even pathrao was done on them. Machines were damaged due to pathrao but the task was completed.

The task was completed to the expectation of public of Delhi. This could have been possible only due to the faith, blessings and guidance from our Hon'ble Chief Minister and PWD Minister.

PWD showed the way that they are capable of carrying out even non engineer's works like removal of malba in addition to their engineering works.



Felicitation of PWD Engineers by Hon'ble Chief Minister, Delhi at the Delhi Secretariat Auditorium on 15<sup>th</sup> February 2016



Felicitation of PWD Engineers by Hon'ble Chief Minister, Delhi at the Delhi Secretariat Auditorium on 15<sup>th</sup> February 2016





## Achievements of Last One Year

### 1. Works Completed

#### POLICY FRAMING

- To facilitate recycling of C&D waste, an order has been issued for mandatory use of the bye-products generated from such plants in public works.
- Swiss Challenge method of procurement has been introduced to induct creativity in public works dispensations.

#### EXECUTED PROJECTS

- Elevated Corridors
- Stretch of the corridor between Mangolpuri to Madhuban Chowk
- Madhuban Chowk to Mukarba Chowk
- On Ring Road - Stretch from Azadpur to Prembari has been opened to traffic.

#### HEALTH DEPARTMENT

- Polyclinic  
First Aam Admi Party Polyclinic at Kantinagar inaugurated during November 2015. Second Polyclinic was inaugurated at Patparganj. Now, Government has mooted a plan for upgrading 150 existing dispensaries to polyclinics. Work on a sample unit at Paschim Vihar has already started and will be completed by March 2016. Planning work on all such Polyclinics has already started. Work is likely to start in May 2016 and shall be completed by Dec 2016.
- Mohalla Clinics  
A sample unit constructed and inaugurated by Hon'ble CM in July 2015. Based on approved sample, a scheme for construction of 1000 such units costing Rs 209 Cr has been approved in Nov 2015. Bids have been invited & work is targeted to start in April 2016 and completed by Dec 2016.

## 2. Works Nearing Completion

### EDUCATION DEPARTMENT

- Pucca School  
C/o 19 pucca schools is at finishing stage and shall be functional for approaching academic session.

### HIGHER EDUCATION DEPARTMENT

- **Academic Block DIPSAR** at Pushp Vihar, New Delhi costing Rs 37.94 Crore will be completed in this financial year and shall be functional for the next academic session.
- **Deen Dayal Upadhyay College at Sector – 3 Dwarka.** Construction of building for this college estimated for Rs. 151 Cr is likely to be completed in current financial year and shall be functional for the approaching academic session.

### PUBLIC WORKS DEPARTMENT

- **The Elevated road over Barapullah Nallah** Phase – I from Sarai Kale Khan to JLN Stadium is an additional asset for Delhi has already proven its utility in respect of time and fuel saving and the same is being **extended up to INA (Aurobindo Marg) from JLN Stadium in phase-II.** The scheme was sanctioned in July 12 for Rs. 533 Cr and is likely to be completed within this financial year. The current progress is around 80%.
- Corridor from Vikaspuri to Meera Bagh
- Three flyovers on Outer Ring Road from Mukarba Chowk to Wazirabad along with loops and two bridges across the drain.  
On commissioning of all the schemes the commuters will be able to ply without any signal from Vikaspuri to Wazirabad in a stretch of about 22 km.

## 3. New Initiatives

### EDUCATION DEPARTMENT

- **C/o 8000 class rooms costing Rs.990 Crores** - tenders called. Works likely to start in February 2016 and class rooms shall be made function during next academic session.
- Apart from new school buildings under construction and new class rooms under construction in existing schools, new school buildings are being planned at 29 plots taken over from DDA, 14 gram sabha plots and 12 redevelopment of existing campuses. 18 NITs for comprehensive consultancy has been prepared and are under scrutiny.

### e-Library

- Sample modular e-Library in 8' \* 40' size steel containers is proposed. Based on experiences learnt, it is proposed to initiate 1000 e-libraries pan Delhi. The project shall be owned by Education Department

## HEALTH DEPARTMENT

- **Remodeling of Existing Hospitals:** Consultants have been appointed. Planning work on around 12 hospitals is in progress. Work on ground is expected to start in May 2016. This would also include construction of additional MCH semi-permanent block in following 4 existing hospitals -
  - (a) Lal Bahadur Sahstri Hospital
  - (b) Rao Tula Ram Hospital
  - (c) Babu Jagjivan Ram Hospital
  - (d) Bharat Ratan Bhim Rao Ambedkar Hospital
- **Enhancement of bed strength of on-going hospital projects**
  - (a) **Burari:** Plan revised and bed strength to be increased from 200 to 800.
  - (b) **Dwarka:** Plan revised and bed strength to be increased from 700 to 1400.
- **New Hospitals**

Design consultancy based on design competition has been planned for 4 new hospital sites at Madipur, Sarita Vihar, Vikaspuri and Nangloi. Two plots are being taken over from DJB at Karawal Nagar and Okhla for development of Hospitals. Development plan for Siraspur plot is under consideration

## POWER DEPARTMENT

- **Redevelopment of colonies of Power Department**

Following colonies of Power Department have been taken back from DISCOMs and have been handed over to PWD for their re-development. Planning for comprehensive redevelopment of these colonies is likely to start soon.

Planning for comprehensive redevelopment of these colonies is likely to start soon.

  - (a) Pankha Road
  - (b) Shalimar Bagh
  - (c) Kilokari
  - (d) Vidyut Nagar, Sarai Kale Khan

## PUBLIC WORKS DEPARTMENT

- **Swachh Delhi Abhiyan**

PWD played an active role in removal of Malba during Swachh Delhi Abhiyan during November 2015 and Malba of approximately 4600 metric tonnes was removed.
- **Cleaning of Delhi during strike period of Safai Karamcharis of EDMC and NDMC**

PWD has played active role in keeping East & North Delhi by removing Garbage by working day and night.

- **Renovation of roads for odd – even numbered vehicles from January 1<sup>st</sup> to January 15<sup>th</sup> 2016**  
All necessary renovation for road infrastructure was done by PWD for this event.
- The **Elevated road over Barapullah Nallah Phase – III** from Sarai Kale Khan to Mayur Vihar has been sanctioned for 1261 Crore and the work is in progress and is targeted to be completed by December 2017.
- Redesigning of roads for better traffic management, barrier free pedestrian movement has been taken up on eleven roads as listed hereunder.

S. No	Name of Road
1	Ring Road (Magazine Road Crossing to Nigam Bodh Ghat)
2	Dhaura Kuan to Prem Bari Pul underpass (Ring Road)
3	Vikas Marg from Laxmi Nagar Metro Station to Karkari More
4	AIIMS to Ashram Chowk (Ring Road)
5	Desh Bandhu Gupta Road from Sheela Cinema to Anand Parbat
6	Wazirabad to Apsara Border
7	Narwana Road
8	Road No. 41 & 41A from Wazipur Depot Crossing (NSP) to Rithala Metro Station
9	Road No. 43 Britania Chowk to Outer Ring Road West Enclave
10	Shiv Das Puri Marg and Patel Road from Ring Road Moti Nagar T-Point to Pusa Gate Round about
11	BRT Corridor

- Planning for following new connections for faster and efficient movement of traffic in and across Delhi has been undertaken along following routes.

S No	Route
1	Double Decker Elevated Road along Najafgarh Nallah from Kakrola More to Punjabi Bagh - 16.4 Km
2	Double Decker Elevated Road along supplementary drain (Nangloi drain) - 16 Km
3	East - West Corridor - Double Decker from Anand Vihar Terminal to Peeragarhi - 29 Km
4	North - South Corridor - Single elevated flyover from Wazirabad to Airport - 24 Km
5	Single elevated Barapullah extension from INA to NH8 / Airport - 10 Km
6	Underground tunnel from NH 24 bypass to Lodhi Road - 3 Km
7	Single Elevated MB Road extension - 7 Km
8	Roads from Khazuri Khas to Bhopura Border with flyovers and underpasses
9	Single Elevated Kalindi Kunj bye-pass
10	Double Decker Elevated Road from Azadpur to Rani Jhansi Road - 6 Km

- For decongestion of W point and Ram Charan Chowk (ITO crossing), design for foot over bridge has been finalised.
- In order to re-cycle C&D waste, the tender for installing two C&D waste handling units at Libaspur and Tikri Border of 500 MT/Day each has been awarded.
- **CCTV**  
RFP for running rate contract has been finalised. It is likely to go public by Feb 2016. Work is likely to be completed in a year. It is contemplated that nearly 4 lakh CCTV cameras will be installed out of which 3 lakh are assessed for residential areas in packages of 4, 8, 16 etc. for periphery surveillance and 1 lakh are assessed for 1260 km PWD roads. Scheme for sharing of footage is being worked out.

## Government Housing

- **New Colonies (Proposed)**
    - **Satbari** - Spread over a land area of 57 acres, NIT for consultancy for comprehensive planning has been issued.
    - **Bahapur** - Spread over a land area of 5 acres, NIT for consultancy for comprehensive planning is under preparation for development of the project on TOD concept.
    - **Hakikat Nagar** - Spread over a land area of 5.25 acres, LoP has been submitted to DDA for approval of TOD concept. It is being submitted to MCD as well for approval.
    - **Dheerpur** - Spread over a land area of 42 acres, LoP has been prepared and is being submitted to DDA for approval of TOD concept and to MCD for approval.
  - **Redevelopment Schemes**
    - **Kalyanvas** - Spread over a land area of 25 acres, LoP is being prepared for submission to DDA for approval of TOD concept and to MCD for approval.
    - **Gulabi Bagh** - Spread over a land area of 72.75 acres, LoP is being prepared for submission to DDA for approval of TOD concept and to MCD for approval. Land ownership is being ascertained.
- As per requirement, **450 Km roads** have been identified for their **resurfacing**. Estimates are in various stages of approval. The work is **likely to be completed by May 2016**.
- **De-silting of Storm Water Drains** was undertaken during 2015 and was completed well before onset of monsoon. This year too, it is planned to be completed by May 2016.
- **Pot hole repairs, repair of footpaths, central verges, plantation of roads, pruning of trees** were undertaken as special drives.
- **Construction of 100 new foot over bridges and maintenance of existing foot over bridges** is envisaged under Swiss Challenge method. Unsolicited proposals have been received which are under scrutiny.

➤ **Reduction of Dark spots on roads**

Identification of 40,000 Dark spots on 421 stretches of roads after sharing of information with multiple agencies including Delhi Police and NGO named Safety Pin has been undertaken. Only 45 stretches were on PWD roads. 42 have been attended. Work is in progress in remaining 3 stretches and shall be completed by Feb 2016.

## **SOCIAL WELFARE**

- **Aanganwadi**

Sample aanganwadi is being constructed at Peeragarhi. Based on experiences learnt, it is proposed to initiate 1000 Aangawadis pan Delhi. The project shall be owned by Social Welfare Department.

## **TRANSPORT DEPARTMENT**

### Development of ISBTs

- **Sarai Kale Khan ISBT** - The work is proposed to be undertaken in two phases. LOP and conceptual drawings based on TOD concept have been developed for Phase I and approval from local bodies is being perused with. It is likely to take another three months. Phase II shall follow after Phase I.
- **Anand Vihar ISBT** - Transport Department has been requested to close the existing consultancy contracts and hand over the work to PWD so that PWD can take up comprehensive planning based on TOD concept.
- **Dwarka ISBT** - Transport Department has been requested to close the existing consultancy contracts and hand over the work to PWD so that PWD can take up comprehensive planning based on TOD concept.

### Development of Bus Depots

- RFP has been floated for appointment of consultant for comprehensive planning of 5 Bus Depots. Technical bids shall be opened on 11.02.2016. RFP shall be called for balance 26 as per the response received in the call for 5 bus depots.

## Important Statistics

❖ Total length of Roads	-	1260 Km.
❖ Road lane length	-	5493 Km.
❖ Number of Flyovers	-	78 Nos.
❖ Number of Subways	-	29 Nos.
❖ Number of FOB's	-	71 Nos.
❖ Number of School buildings	-	681 Nos.
❖ Number of Hospitals	-	33 Nos.
❖ Number of Dispensaries	-	87 Nos.
❖ Office BuildingsArea	-	29,80,697 Sqm
❖ Residential Area	-	9,42,022 Sqm

## Some Recently Completed Projects



**Elevated Corridor from Prembari Pul to Azadpur**

**Flyover from Madhuban Chowk to Mukarba Chowk**



**Flyover from Mangolpuri to Madhuban Chowk**





## Ongoing Projects

**Elevated corridor on Outer Ring Road and on Ring Road  
(total length 22.10 Kms)**



## Barapulla Elevated Road



## Major Works in Progress

### Flyovers

Sl. No.	Work Name	A/A & E/S Amount (Rs. In Crores)	Date of Start	Expected Date of completion
1	Comprehensive Development of corridor Vikas Puri to Meera Bagh on Outer Ring Road (Opened to traffic).	559.60	22.02.2013	31.03.2016
2	Comprehensive Development of corridor Mangolpuri to Madhuban Chowk on Outer Ring Road (Opened to traffic)	423.05	10.04.2013	31.03.2016
3	Comprehensive Development of corridor Madhuban Chowk to Mukarba Chowk on Outer Ring Road.	421.79	10.04.2013	31.03.2016
4	Comprehensive Development of corridor Mukarba Chowk to Wazirabad on Outer Ring Road.	633.17	21.05.2013	31.03.2016
5	Comprehensive Development of corridor prembari Pul to Azadpur on Ring Road (Opened to traffic)	247.17	04.04.2013	31.03.2016
6	Construction of parallel flyover at RTR on ORR & underpass at junction of BJ marg with ring road	313.67	01.11.2014	31.03.2017
7	Comprehensive Development of corridor Mukarba Chowk to Wazirabad (parallel road from SGT Nagar to Wazirabad Chowk)	200.27	21.05.2013	31.03..2016
8	Elevated road over Barapullah Nallah - Phase II from Jawahar Lal Nehru stadium to INA	530.00	23.02.2013	31.03.2016
9	Barapullah phase III from Sarai Kale Khan to Mayur Vihar.	1260.63	01.04.2015	31.03.2018

### Hospitals

Sl. No.	Work Name	A/A & E/S Amount (Rs. In Crores)	Date of Start	Expected Date of completion
1	Extension of Maharishi Balmiki Hospital at Pooth Khurd, Delhi. (100 Bedded to 200 Bedded)	51.37	12.07.13	Completed
2	C/o 200 Bedded Hospital at Kaushik Enclave, Burari, Delhi.	182.77	02.07.13	31.03.16
3	C/o 700 Bedded Super Specialty Hospital at Dwarka, New Delhi.	566.55	27.08.2014	26.02.17
5	Rajiv Gandhi Super Specialty Hospital, Tahirpur.	153.68	01-08-2006/ May 2014	31.03.16 (handing over in process)
6	Construction of building for M.A.M. Dental College (PHASE-II)	64.88	01.10.14	28.02.16
7	Medical college at BSA Rohini	29.59	01.09.14	Completed in April 2015
8	C/o 100 Bedded Hospital at Sarita vihar, New Delhi.	87.14	Environmental clearance received . Drawings being revised for optimum usage.	

## Other Works in Progress

Others				
Sl. No.	Work Name	A/A & E/S Amount (Rs. In Crores)	Date of Start	Expected Date of completion
1	C/o Prison Complex i/c Housing at Mandoli	340.56	20.01.2009	31.03.16
2	NCC Bhawan at sector-19,Rohini,Delhi.	55.97	03.12.2014	30.06.16
3	Construction of DC (West) at Raja Garden	35.82	01.12.2014	31.08.16
4	Construction of 20 Senior Secondary Schools in Delhi	350	01.12.2014	31.12.16

## Budget & Expenditure

### Budget & Expenditure

Fig.in Crores.					
Major Head		Budget Allotment 2015-16	RE 2015-16	Expenditure up-to DEC.-2015	BE 2016-17
PWD	MH: 5054 Roads & Bridges	1526	1526	934	1500
	MH: 4059 Public Works	233.75	327	150	318
	MH: 4216 Housing	40	40	40	64
	<b>Sub Total</b>	<b>1799.75</b>	<b>1893</b>	<b>1124</b>	<b>1882</b>
4070	Delhi Fire Services And Jail Buildings	85	75	46	15
4202	Education	1377.70	1013	395	869
4210	Health	833.60	470	236	734
4235	Social Welfare	46.67	29	10	23
4250	Social Service	21.45	22	14.26	135
4851	Industries	0.10	0.1	0	0.10
5475	WTS & Measures	0.55	0.2	0	0.50
4225	Welfare of SC/ST & OBC	8	1	0.3	1
4055	Forensic Lab.	21.50	10	2.97	10
4217	Unauthorised colonies	9.50	9.50	4.21	2
	<b>Sub Total</b>	<b>2404.07</b>	<b>1629.80</b>	<b>708.74</b>	<b>1789.60</b>
	<b>Grand Total=</b>	<b>4153.82</b>	<b>3522.80</b>	<b>1832.74</b>	<b>3671.60</b>

## Challenges in Delhi

### The Challenges before PWD

- Rapid Urbanization of NCT Delhi - 97.5% urban population.
- Population / Density : 19.9 million (2016) to 23 million (2021).  
112.97 pph (2011) to 225 pph (2021).
- 2103 km of road length per 100 km<sup>2</sup>.
- 1500 vehicles added to city roads each day – total > 10 m Vehicles
- Land acquisition issues
- Forest & Tree Cover : 20.2 % (2009) aiming for 33%.

*Source : MPD 2021; Census of India 2011 ; India State of Forest Report 2009*

## Horticulture

Horticulture wing of Delhi PWD has created a Terrace garden adjacent to the Hon'ble Chief Minister's office and above the parking area. Potted plants have been displayed at various places and a vertical garden in shape of green wall at the main entrance of Delhi Secretariat. Areas near Mukarba Chowk Flyover have been also beautified by landscaping and plantations. Institutional areas have been also landscaped at Delhi institute of Hotel management and catering Technology Lajpat Nagar and Danvir Bhamra Shah public park Jahangir puri have been also beautified, central verge of ring road bypass has been also beautifully landscaped by different colorful bougainvilleas.

## Terrace Garden adjoining CM Office



## Garden of Mukarba Chowk Flyover



## Terrace Garden



**Danvir Bhama Shah Park at Jahangirpuri**



**Delhi Institute of Hotel management and Catering Technology**



Central Verge of Ring Road Bypass near Yamuna River



Central Verge of Ring Road Bypass near Yamuna River





## Achievement Housing

- "On-line receipt of applications for allotment" and "Online bidding for allotment" was introduced by PWD in e-Awas housing module in 2014. A HelpDesk has been setup at the PWD Secretariat to assist and guide the public in all matters concerning e-Awas, including telephonic queries at 011-23392294
- During the year 2015-16, a record Allotments (5) done in 2015 in which total category wise allotments were done as under
  - a) Type I – 126
  - b) Type II - 366
  - c) Type III – 191
  - d) Type IV – 96
- PWD also introduced "Online Deduction of Licence Fee" in r/o Delhi Govt Residential Flats(allottees) with effect from the month of Feb' 2016. The system began on Pilot basis in Feb' 2016 in the General Admn. Department of Delhi Secretariat.
- PWD also introduced "Online Booking of Community Centres and Parks" in Nov 14. During the current financial year (2015-2016) 259 no of bookings have been done bringing a revenue of Rs 40.62 Lacs.

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