

TRANSPORT

Under Transport sector the implementing departments for road based public transport, Mass rapid transport and other modes of travel are Transport department, DTC and DMRC. Whereas for construction of roads, bridges, flyovers, widening and improvement of various roads, improvements of intersection, providing street lighting, cycle tracks, construction/ widening of bridges on various roads, over river Yamuna and other drains in Delhi and constructions of subways etc. to facilitate free flow of traffic in Delhi; PWD, MCD, NDMC and Transport Department are the implementing agencies.

The agency wise proposed Outlay for the 11th F.Y.P., expenditure for A.P. 2007-08, approved outlay and RE 2008-09 and proposed outlay for the annual plan 2009-10 are given in the following table.

SN	Agency	2007-08 Exp.	2008-09		Proposed Outlay 2009-10
			Approved Outlay	RE	
1	2	3	4	5	6
1.	PWD [Roads & Bridges/Street lights]				
i.	Regular	20563.59	19000.00	16438.00	12530.00
ii.	CRF	31.60	1000.00	100.00	1000.00
iii.	TYADB (PWD)	24.90	100.00	100.00	100.00
iv.	CWG	2288.55	33900.00	94800.00	123700.00
V.	JNNURM	41560.36	36500.00	-	6760.00
vi.	Roads & Bridges (DTTDC)	-	1000.00	1500.00	3000.00
	Total (PWD)	64469.00	91500.00	112938.00	147090.00
2.	MCD [Roads & Bridges]				
i.	Regular	9894.83	7500.00	12500.00	7000.00
ii.	CRF	1692.64	3000.00	3000.00	2500.00
iii.	CWG	807.25	4000.00	17500.00	13000.00
iv.	C/o RUB/ROB (CWG)				5000.00
V.	Imp. of Road by Providing RMC (CWG)				1000.00
vi.	Providing Improve type Str. Light (CWG)				1000.00
vii.	JNNURM	-	14000.00	500.00	5000.00
	Total (MCD)	12394.72	28500.00	33500.00	34500.00

SN	Agency	2007-08 Exp.	2008-09		Proposed Outlay 200910
			Approved Outlay	RE	
1	2	3	4	5	6
3.	NDMC [Roads & Bridges]				
i.	(i) Regular	400.00	400.00	400.00	400.00
ii.	(ii) CWG	350.15	700.00	700.00	700.00
	Total (NDMC)	750.15	1100.00	1100.00	1100.00
4.	Transport Department	124715.65	172234.00	134575.00	124186.00
	Total	202329.52	293334.00	282113.00	306876.00

PWD (ROADS & BRIDGES)

ROADS, FLYOVERS, FOB'S & SUBWAYS

Major Head – 5054

Work on 15 new flyovers are in progress and these are flyovers - at Mukarba Chowk and Bridge over Neela Hauz, Azadpur, Naraina, three flyovers between IIT and NH-8, Nangloi, corridor improvement of Road no.56 and U. P. link Road, Apsara border, Near Shyam Lal College on GT Road, Underpass at ITO Chungi, Shastri Nagar Pushta. Flyover at Mukerba Chowk is likely to be completed by March 09. Signature Bridge on Yamuna at Wazirabad will be shortly started by DTTDC and PWD.

29 nos. subways/ FOBs have been completed at various places including 11 FOBs (Near Supreme Court, between AIIMS & Safdarjung Hospital, Majnu Ka Tila) 8 FOBs with Escalators at Maharani Bagh, ITO, ISBT Kashmere Gate, Satya Niketan, Nanakpura Gurudwara, Raja Garden, Mangal Bazar & Ratia Marg.

7 FOBs are under planning stage and will be taken up in next couple of months. FOB near Vivek Vihar, FOB near Patpar Ganj Industrial area, FOB near Gazipur Village, FOB at Gandhi Nagar will be provided with escalators. Under Road Widening Scheme, Nelson Mandela Marg & Aruna Asaf Ali Marg already widened from 4-6 lanes, Ring Road has been widened from existing 6 lanes to 8 lanes over a length of 33.2 km and work on 14.1 km is in progress in stretches between Punjabi Bagh to Azadpur, Ring road from Dhaula Kuan to Naraina from 6 lanes to 7 lanes, SA Road from ESI Hospital to Marginal Bund Road has been widened from 4 lanes to 8 lanes from NOIDA More to Shastri Park and between Khajuri Khas to Sabhapur and GT Road to Khajuri Chowk widening work to 6 lanes is in progress. Further, Widening of NH-24 Bypass from NOIDA More to Ghazipur 4 lanes to 8 lanes is in

progress and Widening of NH-10 from 4 lanes to 8 lanes will be taken up after DMRC completes its work on this stretch.

1. **C/o Grade Separator at Mukarba Chowk at G. T. Karnal Road – Outer Ring Road Junction Delhi:-** The work is sanctioned for Rs. 195 crore in July 06 and is likely to be completed by March 2009. It aims to improve intra – city traffic movement. This work involves construction of Main Flyover including 4 clover leaves, 4 slip Roads, Bridges, Subway. Cycle Tracks, Landscaping, Footpath, Lifts/Escalator,. Street Lighting and Signage etc. It will benefit all road users passing through the intersection and indirectly benefit the people residing is nearby locality due to improved environment.
2. **C/o Grade Separator at Ring Road - G. T. Karnal Road – Road Intersection at Azadpur, Delhi:-** The work is sanctioned for Rs. 153 crore in Feb 07 and is likely to be completed by March 2009. It aims to improve intra – city traffic movement. This work involves construction of Main Flyover including 780 m long Main flyover along the GTK Road-Mall Road with Diaphragm wall, one Foot Over Bridge and Subway with ramps for pedestrians. Underpass below the ROB embankment by Box pusing technique for the service road, Bus bays etc. It will benefit all road users passing through the intersection and indirectly benefit the people residing nearby locality due to improved environment.
3. **C/o Underpass on Outer Ring Road – Jwala Heri Intersection at Bhera Enclave:-** The work is sanctioned for Rs. 54 crore in Feb 07 and is likely to be completed by March 2009. It aims to improve intra – city traffic movement. This work involves construction of 447 m long underpass on outer ring road with diaphragm wall/retailing wall and RCC voided slab on intersection, slip roads, rotary, footpath, bus bays, 2 foot over bridges etc. It will benefit all road users passing through the intersection and indirectly benefit the people residing is nearby locality due to improved environment.
4. **C/o Flyover at Nangloi NH-10 Nangloi, Delhi:-** The work is sanctioned for Rs. 77 crore in Mar 07 and is likely to be completed by May 2009. It aims to improve intra – city traffic movement. This work involves construction of 1075m long flyover along NH-10 i/c. 749m viaduct in composite steel structure on single pier for both carriageway, slip roads, cycle track, side footpath, bus bays, one subway etc. 1 more subway in progress under separate sanction. It will benefit all road users passing through the intersection and indirectly benefit the people residing is nearby locality due to improved environment.

5. **C/o Grade Separator at Outer Ring Road Mangolpuri, Delhi:-** The work is sanctioned for Rs. 31 crore in Sept. 06 and completed in August 2008. It aims to improve intra – city traffic movement. This work involves construction of Flyover along outer ring road, slip road, footpath, bus bays, 1 FOB (Under Progress). Landscaping. Street Lighting etc. One more subway is in progress under separate sanction. It will benefit all road users passing through the intersection and indirectly benefit the people residing in nearby locality due to improved environment.
6. **C/o Grade Separator at Sanjay Gandhi Transport Nagar, NH-1 Intersection, Delhi:-** The work is sanctioned for Rs. 133 crore in May 08 and is likely to be completed by June 2010. It aims to improve intra – city traffic movement. This work involves construction of Flyover on SGT Nagar – Road, 2 trumpets for right turn from NH-1 to SGT Nagar & SGT Nagar to NH-1, 2 FOBs with escalator, cycle track, subway, shifting of services, street lighting, landscaping, land acquisition etc. It will benefit all road users passing through the intersection and indirectly benefit the people residing in nearby locality due to improved environment.
7. **C/o RUB at Rajasthan Udyog Vihar – Shalimar Bagh Delhi:-** The work is sanctioned for Rs. 89 crore in Aug 08 and is likely to be completed by Sept. 2010. It aims to improve intra – city traffic movement. This work involves construction of Road Under Bridge on Delhi – Ambala Line, Level Crossing NO. – 7 (Special) near Rajasthan Udyog Vihar Shalimar Bagh, 2 FOBs with escalator, shifting of services, street lighting, landscaping, land acquisition etc. It will benefit all road users passing through the intersection and indirectly benefit the people residing in nearby locality due to improved environment.
8. **C/o Grade Separator at Raja Ram Kohli Marg and Shastri Nagar Intersection at East Delhi (Sh: C/o Main flyover including loops, Slip roads, subways & Cycle Tracks Drainage & allied services).** The work is sanctioned for Rs. 230 crore in Oct 08 and is likely to be completed by July 2009. It aims to improve intra – city traffic movement. This work involves construction of Grade Separator at Raja Ram Kohli Marg and Shastri Nagar intersection at East Delhi i.e. C/o Main flyover i/c loops, slip roads, subway, cycle track, drainage & allied services.
9. **C/o 3 level Grade Separator at Ghazipur crossing on NH-24.** The work is sanctioned for Rs. 245 crore in April 08 and is likely to be completed by April 2010. It aims to improve intra – city traffic movement. This work involves construction of 3 level grade separator at Ghazipur crossing consisting of 8 lane flyover of 770m length along NH-24. Underpass of 6 lane of length 660 m along road no. 56 & Kondli road and surface rotary for right turning traffic.

10. **C/o Underpass and Four Nos. Clover leaves with FOB's at ITO Chungi Crossing, Delhi.** The work is sanctioned for Rs. 81crore in Aug 07 and is likely to be completed by July 2009. It aims for a signal free junction. This work involves construction of underpass below Vikas Marg, four cloverleaves, three Foot Over Bridges on M. B. Road & Slip Roads. After completion, all the vehicular traffic as well as pedestrian crossing this junction will be beneficiaries.

11. **C/o Flyover and Underpasses with FOBs at Shyam Lal College crossing on Grand Trunk Road Delhi** The work is sanctioned for Rs. 93 crore in June 07 and is likely to be completed by July 2009. This work involves construction of one flyover on G. T. Road, one underpass connecting Road No. 57 and Road No. 65. Rotary on ground level, three Foot Over Bridges – two G. T. Road and one at Road No. 57 After completion, all the vehicular traffic as well as pedestrians crossing this junction will be beneficiaries.

12. **C/o Flyover at Naraina T-Point Ring Road, New Delhi:-** The work is sanctioned for Rs. 230 crore in Mar 07 and is likely to be completed by Dec – 2009. It aims to improve intra – city traffic movement. This work involves construction of Main flyover, landscaping, footpath, street lighting and signages etc. It will benefit all road users passing through the intersection.

13. **C/o Corridor Improvement of ORR from IIT Gate to NH-8 intersection New Delhi.** The work is sanctioned for Rs. 245 crore in April 08 and is likely to be completed by June 2009. It aims to improve intra – city traffic movement. This work involves construction of 3 flyovers at IIT, Munirka & RTR Marg on ORR to make the stretch signal free, Landscaping, footpath, street-lighting and Signages etc. 6 nos. FOBs are being provided for pedestrian movement.

14. **C/o Road under Bridge (RUB) connecting Road No. 58-64 passing below Delhi-Ghaziabad Railway line near Jhilmil Colony.** The work is sanctioned for Rs. 32 crore in Sept 06 and is likely to be completed by June 2010. It aims to improve intra – city traffic movement. This work involves construction of RUB with Cycle track facilities, Street Lighting and signages etc. It will benefit all road users by reducing the distance & time to reach G. T. Road and GTB Hospital.

15. **C/o Bridge across Neela Hauz at Aruna Asaf Ali Road (Road No. 16), New Delhi.** The work is sanctioned for Rs. 83 crore in March 07 and is likely to be completed by Sept. 2009. It aims to improve intra – city traffic movement. This work involves construction of Bridge over Neela Hauz pond, landscaping, footpath, street lighting and signages etc. It will benefit all road users passing through the Bridge, by providing a straight link over the pond.
16. **C/o Grade Separator at G. t. Road No. 56, Apsara Border.** The work is sanctioned for Rs. 226 crore in June 08 and is likely to be completed by May 2010. It aims to improve intra – city traffic movement. This work involves construction of Main flyover on G. T. road, under passes on road No. 58-62 along both sides of the ROB on Road No. 56 landscaping footpath, lifts/escalators, street lighting and signages etc. It will provide additional lanes at the intersection in all the 4 directions for easy traffic movement.
17. **C/o Grade Separator at ISBT Anand Vihar.** The work is sanctioned for Rs. 123 crore in June 08 and is likely to be completed by May 2010. It aims to improve intra – city traffic movement. This work involves construction of flyover on Road No. 56 at the intersection of Road No. 56-57, widening of bridge on drain no. 2, widening of ROB no. 15 and U-turn below the ROB at both ends for easy and smooth traffic movement.
18. **C/o ROB on Road No. 63 at level crossing no. 3 on Delhi Saharanpur Railway line Delhi.** The work is sanctioned for Rs. 34 crore in Jan 02 and completed in Dec - 2008 It aims to improve intra – city traffic movement. This work involves construction of ROB, 3 lane 11m wide dual carriage way, surface level U-turns below ROB, pedestrian facilities, street lighting and signages etc. It will benefit all road users passing through the ROB and indirectly benefit the people residing nearby due to improved environment.
19. **C/o Elevated Road over Barapulla Nallah starting from Sarai Lale Khan to Jawahar Lal Nehru Stadium.** The work is sanctioned for Rs. 498 Crore in July 2008 and is likely to be completed by April 2010 It aims to provide an efficient connectivity between Games village and Jawahar Lal Nehru Stadium. The work involves construction of an elevated road corridor starting from Sarai Kale Khan to Jawahar Lal Nehru Stadium in two phases for the use of approx 10000 athletes during Commonwealth Games-2010 and by the general public there after. The project is targeted to be completed by 30.06.2010.

- 20 **C/o Storm Water Drain from Mahipalpur to Nazafgarh Drain.** The work is sanctioned for Rs. 152 Crore in May 2008 and is likely to be completed by May 2009 It is a peripheral drain along the Airport to discharge the Storm water of IGI Airport from Mahipalpur Chowk to Najafgarh Drain work is to be taken up in two phases. The work of Phase-I (from Airport to Najafgarh Drain) is in progress & tenders for phase-II (from Mahipalpur Chowk to Airport) are under process.
- 21 **Construction of East-West Corridor Phase-I (PartI-A & I-B) connecting East Delhi to New Delhi Railway Station along DDU Marg.** It is likely to cost approximately Rs. 1660 Crore. DPR is under preparation. It aims to provide connectivity for East Delhi to Central Delhi & decongestion of Vikas Marg, NH-24, Ring Road & ITO Chowk. The work is divided in elevated corridor from Marginal Bundh Road near Akshardham to New Delhi Railway Station i.c ROB's New Yamuna Bridge, specialised crossings at Ring Road, ITO Chowk & Ranjit Singh Flyover, surface level service roads, parking & horticulture.
- 22 **C/o Ring Road bypass from Salimgarh Fort to Velodrome Road.** The work is sanctioned for Rs. 654.39 Crore in May 2008 and is likely to be completed by June 2010 It aims to reduce the congestion on Ring Road due to various samadhis. The work involves Providing (a) a signal free interchange and smooth flow of traffic for traffic of ring Road and for dispersal of traffic from Geeta Colony Bridge. (b) Solution for existing necking in Ring Road between Red Fort and Salimgarh Fort. (c) Decongest Samadhi areas as these are places of national importance and frequently visited by VVIPs.
- 23 **C/o widening of Mehrauli Mahipalpur road(Phase-I) from Andheria more to Masoodpur village.** Preliminary Estimate is yet to be submitted as scheme is not yet approved. It aims to provide free flow of traffic to IGI airport and Gurgaon.
- 24 **C/o Grade Separator at BSZ Marg Flyover at New Delhi.** Preliminary Estimate is not yet approved. It aims to provide signal free movement at BSZ Marg and I P Marg intersection.
- 25 **C/o North South Corridor connecting Gandhi Nagar to Shastri Park along Marginal Bund Road near East Delhi.** Preliminary Estimate is not yet submitted as scheme is not yet approved. It aims to provide at Signal free movement from Gandhi Nagar to Shastri Park Road.

26. **Tree plantation and beautification of Sanitary Land Fill on Left Side of Mukarba Chowk for improvement of Environment.** The work is sanctioned for Rs. 4.75 crore. This is likely to be completed by 2009-10. It aims to stabilize slope containing garbage filled by MCD in Sanitary Land Fill, Boring of holes/inserting perforated pipe for safe release of hazardous gases i./e Methane, Leveling/ Dressing, Filling good earth, Tree Plantation and Barbed wire Fencing. The project will provide direct benefit to Road users and passive benefit to residents in surrounding area as aesthetics & overall environment will be improve.
27. **Resurfacing of Roads** - Many important PWD Roads including Ring Road are proposed to be resurfaced by Recycling Technology which is a New Technology and was very successful in Pilot Project of M.B. Road done recently. The existing milled material is recycled and laid by adding about 25% to 30% new material. The depth of the road surface does not increase to that extent and therefore avoids disturbing the footpaths & Kerbstones. There is additional advantage of less pollution as quantity of new material is considerably reduced. The work has been sanctioned for Rs. 98 Crore which is to be completed by March, 2010.
Resurfacing of Ring Road, Outer Ring Road, Road No. B-1, B-3, B-4, B-7, B-8, 42-A, A-4, 29, 30, 43 & other roads under Zone M-3 have been proposed for 2009-10 for which provision of Rs. 500 lakhs has been made.
28. **Resurfacing of Roads using Plastic Waste Material:-** This new technology involves use of plastic waste which is added in bitumen which improves binding properties of bitumen and resurfacing of roads with this technology decreases pollution and is environment friendly. Certain roads have been proposed to be resurfaced with this technology as the life of resurfaced road with this technology is 25% more than normal resurfaced road. The project has been sanctioned for Rs. 12 Crore. The work has been awarded and is likely to be completed by June, 2009.
Road No. B-6 in Rohini is proposed with the new technology & a provision for Rs. 250 lakh has been made.
29. **Micro Surfacing of Roads:-** Certain roads which had been resurfaced about 2 to 3 years back have developed fine cracks due to constant wear & tear subjected to them. Microsurfacing technology is a thin layer of asphalt mix with very small size aggregate which virtually fills the cracks and seals the entire surface at top to make it more resistant to withstand future load. This technology had been very successful in small stretches done 5 to 7 year back. Many important roads which are due for such treatment have been proposed to be microsurfaced. The project has been sanctioned for Rs. 32 Crore. The work is likely to start in Feb., 2009 and is to be completed by November, 2009.

Microsurfacing of Ring Road, Outer Ring Road, Rohini Roads & Other Roads under Zone M- 3 have been proposed for 2009-10 for which a provision of Rs. 1100 lakh has been made.

30. **FOBs across various Roads:-** In view of the increased traffic load on almost all roads and with addition of many flyovers, the motorised traffic has been made signal free on many routes. The pedestrians have to face a lot of problems in crossing these busy roads. FOBs with ramp/stare-case have been approved at 10 locations after due consideration by Subway Committee Members. The estimates for 8 FOB's have recently been sanctioned for 2.40 Crore each. The tenders have been called and the work shall likely to start on ground by March, 2009 and completed by Aug., 2009.

FOBs across Ring Road, ORR, in front of Britannia Factory, Inder Lok, Road No. 43 Ram Mandir Janamstmi Ground, Shalimar Bagh Kendrya Vidhayalaya, Ashok Vihar T-point, Road No. 43 near Shakur Basti Railway Station, Road no. 41, Ramp ISBT FOB, Mori Gate & Bulvard road under PWD Zone M-3 are proposed & a provision of Rs. 1281 lakh has been made.

31. **Streetscaping of Roads around Commonwealth Games Venues:-** Roads around Commonwealth Games venues need to be improved by way of its look and made user friendly by providing street furnitures, amenities and creating good landscaping & horticulture works. The desired roads have been identified in consultation with various road owning departments. Consultants have been appointed for all the games venues and the surrounding roads. The consultants are to submit the conceptual plans and detail of engineering works required. Once the consultants submit schemes within 3 months time i.e. by April – 2009, the works on ground shall be taken up after obtaining formal sanctions. The work will be completed before the Commonwealth Games 2010.

Beautification, street-scaping, plantation, development of lawns & construction of planters & railing etc. on Ring Road, ORR, Rohini Roads and other roads under PWD Zone M-3 proposed & a provision of Rs. 300 lakh has been made. Beautification below flyovers under PWD Zone M-3 is also proposed & a provision of Rs. 200 lakh has been made.

32. **Signages on Roads:-** A Pilot Project was taken for installing improved over-head signages on I.P. Marg and Ring Road from Rajghat to I.T.O. The signage board was made up of alloy. The retro- reflection sheet used for signage was of superior quality with improved single pipe gantry system. In addition to over-head gantry signage, shoulder mounted boards, median reflectors, various mandatory signages were also installed on this pilot

stretch. Based on the experience of this pilot project, estimates are under preparation for improving the signages system on all PWD roads to give more aesthetic look and better performance. The work is to be completed before the Commonwealth Games 2010. Signages & Road furniture on Ring Road, ORR, Rohini Roads and other road under PWD Zone M-3 have been proposed & a provision of Rs. 180 lakhs have been made.

33. **Up-gradation of Street Lighting on Delhi PWD Roads:-** For improving the street lighting of national capital Delhi for the upcoming Commonwealth Games 2010, it was decided to provide street lighting of International Standard on Delhi PWD Roads. Specification Committee was constituted under the Chairmanship of Director, Delhi Transco Limited and members were from PWD, NDMC and DMRC. The Specification Committee has recommended the standards for world class lighting and a preliminary estimate amounting to Rs. 197.98 crore was approved by Delhi Govt. vide No. F8(25)/2006-07/PWD-II/8580-89 dated 19.12.2007. The total work was divided into three packages, one each under three PWD maintenance zones.

As per the specification, the uniform lighting level is maintained at 35 lux on main carriage way of the Roads and 25 lux on service roads. Contracts for all the three packages have been awarded and works are in progress. The PWD Zone M-1 is responsible for carrying out the upgradation of street lighting of PWD Roads mainly in South Delhi. The work is progressing satisfactorily. So far 35 km road has been provided with new street light and for another 48 km road, the work is in progress and is likely to be completed in February, 2009. Remaining work on street lighting of about 40 Km Road of Zone M-1 is to be completed before the month of June, 2009. Total cost of the work under Zone M-1 is Rs. 51.18 crore which includes the maintenance of the street light for a period of six years after completion of original work. Providing and upgradation of street light on PWD roads, escalators FOBs on Ring Road, lighting of FOB Shastri Nagar & subway Nangloi under PWD Zone M-3 are proposed & a provision of Rs. 4775 lakh has been made.

34. **Construction of FOB and provision of Escalators:-** Under this scheme, various Foot Over Bridges are being constructed on important roads like Ring Road and Outer Ring Road as per the requirement of pedestrians at particular locations. Subway Committee of Govt. of Delhi examines the requests for construction of FOB depending upon the actual requirement and feasibility. Escalators are also being provided at certain places along with ramp and /staircase with Foot Over Bridges. Under PWD Zone M-1, FOBs have been constructed at Ring Road, Rajouri Garden, Venkateswara College, Moti Bagh, Delhi Cantt. (Station Road), Maharani Bagh, Mangal Bazar, Saheen Bagh, Batra Hospital. Presently, Foot Over Bridges are under construction at

Ashram, Sector-13, R.K. Puram, NSIC Okhla, Nehru Nagar, Bhairn Mandir Kalkaji.

The escalators have been provided at FOBs at Rajouri Garden, Venkateswara College, Moti Bagh, Delhi Cantt., Maharani Bagh. Works for providing escalators at R.K. Puram, Sector 13 and Ashram have been awarded. Tenders for escalators at Nehru Nagar and Mansarover Garden are under process.

35. **Widening of roads:-** Widening of Road Nos. 37, 45, 48, 51, 237 & some other roads under Zone M-3 including service roads have been proposed for 2009-10 for which a provision of Rs. 616 lakh has been made .
36. **Strengthening of roads:-** Strengthening of Ring Road, Outer Ring Road, Road No. A-1, A-3, B-2, B-5, Road No. 40, 41, 44, 47, 48, 317, 318 & 319 has been proposed for 2009-10 for which a provision of Rs. 1870 lakh has been made.
37. **Mastic asphalt laying on roads:-** Providing & laying of mastic asphalt on crossing at ORR -26, B-2, B-5, B-7, B-8, K.N. Katju Marg, Road No. 42, 44, 317, 318 & 319 have been proposed & a provision of Rs. 40 lakh has been made.
38. **Railings on roads:-** Railings on Ring Road, Outer Ring Road, Road No. 46 have been proposed & a provision of Rs. 100 lakh has been made.
39. **Footpaths :-** Improvement of footpaths on Ring Road, Outer Ring Road, Road No. B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, K.N. Katju Marg, 42-A, 41, 43, 44, 45, 46, 47, 236, 237, 316, 317, 318, 319 & other roads under PWD Zone M-3 have been proposed & a provision of Rs. 115 lakh has been made.
40. **Central verge improvement:-** Improvement of Central verge on Ring Road, Outer Ring Road, Rohini Roads & Other Roads has been proposed & a provision of Rs. 100 lakh has been made.
41. **Drainage :-** Remodelling /Providing drainage system on Ring Road, ORR, Road No. 43, Rohini Roads, Alipur Drain, Mall Road Extn. and other roads under PWD Zone M-3 have been proposed & a provision of Rs. 550 lakh has been made.

42. **New/Missing link of Roads :-** C/o Road No. 37 Extn. from Prembari Pul (Ring Road) to Haiderpur water works (ORR) and other roads under PWD Zone M-3 has been proposed & a provision of Rs. 1.00 lakh has been made.
- 43 **Bridges:-** Signature bridge across river Yamuna (to be constructed by DTTDC) under PWD Zone M-3 has been proposed & a provision of Rs. 10000 lakhs have been made.
- 44 **Pedestrian Subway :-** C/o subway across Road No. 40 near Shastri Nagar, Road No. 37 and other roads under PWD Zone M-3 have been proposed & a provision of Rs. 10 lakh has been made.
- 45 **Cycle Track:-** Provision of cycle track on Ring Road, ORR, Rohini Roads and other roads under PWD Zone M-3 has been proposed & a provision of Rs. 90 lakh has been made.
- 46 **Hort. & Land Scaping:-** Hort. work & Land scaping on Ring Road, ORR & other roads under PWD Zone M-3 have been proposed & a provision of Rs. 200 lakh has been made.
- 47 **Miscellaneous. :-** C/o Bus Bays and Thermoplastic paint on Road Road, ORR, K.N. Katju Marg, Rohini roads and other roads under PWD Zone M-3 proposed & a provision of Rs. 200 lakh has been made.

The above details of the plan outlay will be restricted to Rs. 1470.90 crore for Annual Plan 2009-10.

MCD

1. On Going Schemes (Rs.7000 lakh)

Under this head all 'Road & Bridges" activities are covered excluding activities covered under CRF, Common Wealth Games and JNNURM.

ROB Lawrence Road, Calcutta Bridge (W/o) & Kishan Ganj are in progress and likely to be completed during 2008-09:-

2. CRF (Rs.2500 lakh):

Under CRF, 34 works have been approved by MORT&H, Government of India and are being implemented. An outlay of Rs. 25 crore is proposed in the Annual Plan 2009-10.

3. Common Wealth Games (Rs. 13000 Lakh)

I An amount of Rs.130 crore is proposed in the AP 2009-10. It includes following three schemes.

- i. Improvement of surrounding of New Delhi & Old Delhi Railway Station
- ii. Improvement of major roads
 - a. JLM Marg
 - b. MG Road
 - c. Road connecting with stadia
- iii Covering of kushak and Sunehari Bagh Nallah (about Rs. 170 crore) for development of parking area.

II C/o ROB/RUB (Rs. 5000 lac)

Following 17 existing level crossings are to be converted into ROB/RUBs.

- i. Vivek Vihar (ii) Sarai Kale Khan (iii) Sewa Nagar (iv) Bijwasan (v) Nihori Road, Narela (vi) Shakur Basti (vii) Kirti Nagar – Prem Nagar (viii) Samaypur Badali (ix) Swarn Park (x) Rampura (xi) Zakhira (Daya Basti (xii) Mundka (xiii) Sanjay Gandhi Transport Nagar (xiv) Mangolpuri (xv) Sultanpuri (xvi) Roshanara garden and (xvii) Kirari Narela.

Majority of the proposals have been cleared by Railway Board. The corporation is likely to complete these projects before Commonwealth Games 2010. The work at Vivek Vihar and Sarai Kale Khan is in progress. The estimated cost of works in Rs. 428 crore, out of which 50% cost is being shared by Railways and rest of the money is being contributed by Govt. of NCT of Delhi in the form of Grant-in-aid.

4. JNNURM (Rs. 5000 Lakh)

Proposal for JNNURM schemes have been submitted to GOI for approval.

Following works will be taken up under this scheme during 2009-10.

1. Corridor improvement of S.P. Mukerji Marg..
2. Corridor I/o Mehrauli - Gurgaon Road.
3. Grade separator on Rani Jhansi Road
4. ROB/RUB on Railway Crossing at Samai pur Badli.
5. Traffic management around Civic Centre near Minto Road

NDMC

A. Normal Schemes (Rs. 400 lakh)

An outlay of Rs.20 crore is proposed in XI FYP 2007-12 and Rs.4.00 crore in AP 2009-10.

Following activities will be taken up under this scheme

1. Strengthening & resurfacing of roads in NDMC area.
2. Construction of subway at C Hexagon around India Gate.
3. Construction of Parking lot in NDMC area at:
 - (a) Yashwant Place Market at Africa Avenue
 - (b) Bhai Vir Sing Marg
 - (c) Multi level parking at Baba Kharak Singh Marg.

B. Common Wealth Games (Rs. 700 lakh)

An outlay of Rs.30 crore is proposed in XI FYP 2007-12 and Rs.7.00 crore in AP-2009-10 for the roads in and around stadiums and venues.

1. Improvement of Pedestrian area on outer circle including improvement of subways (Civil & Elect. Works). 20% works likely to be completed during 2008-09.

2. Street Scaping and beautification of Road.

- i. Hanuman Mandir Plaza
- ii. Niti Marg & three sides of Nehru Park.
- iii. Tees January Lane & Tees January Marg
- iii. Mandir Marg
- iv. Baba Kharak Singh Marg

3. Installation of Road Signages

Road Signages will be fixed at various location in NDMC area.

4. Janpath development

It includes following locations.

- (i) Janpath mini market opposite Indian Oil Bhawan
- (ii) Janpath road berm market between outer circle & Tolstoy Market
- (iii) Tibitean Market Janpath

5. Modernisation of Street lighting

Under this scheme 67 no of Road to be covered in Phase I & II by providing following:

- (i) Providing new GL polygon poles with IP -66 filling having 150/250/400 W-HPSV lamps
- (ii) New cables to be laid in pipes with Trench less technology
- (iii) Auto meter control using GSM technology.

TRANSPORT DEPARTMENT

The main objective of the 11th Five Year Plan is to augment and improve the quality of the "Public Transport system" so as to make it commuter friendly by providing an efficient, reliable, safe, comfortable and affordable services through a multi - modal public transport system, so as to discourage the use of personal vehicles. The implementation of the Integrated Multi –Modal Transit Systems for Delhi will be on full gear. Substantial new infrastructure of world class for this is planned to be created before the Commonwealth Games 2010. This objective will

also be complemented by the promotion of non-motorised transport through appropriate transport and traffic engineering and with the effective enforcement of the traffic regulations.

For the Annual Plan 2009-10, an outlay of Rs 1345.75 crore has been proposed.

1. Planning & Monitoring Cell (Rs.5.00 Lakh)

OBJECTIVES

The main activities proposed are collection and compilation of transport and transport related statistics and their analysis for policy changes and new policy initiatives. Another thrust area will be publication of reports generated from the transport statistics. An outlay of Rs.5.00 lakh is proposed on the Annual Plan 2009-10.

2. Motor Driving Training Schools (Rs.25.00 Lakh)

OBJECTIVES

The objective of this scheme is to impart training in driving skills to potential drivers and also upgrade the skills of existing drivers on scientific lines by employing modern equipments and highly trained instructors. Annually the licensing authorities in Delhi issue about 3 lakh driving licences. Although under the Motor Vehicles Act a number of private Motor Driving schools have come up in the city, due to lack of infrastructure, particularly land; the quality of training provided by these private Driving School is deficient. Similarly the facilities for skill testing with the licensing authorities are also not adequate for ensuring stringent standards. In view of this, during the 10th Plan a new initiative was taken by the transport for establishing premier motor training schools in the Delhi in the PPP mode. So far 3 schools have been established under this scheme:-

1. IDTR (Institute of Driving Training and Research), Loni Road, jointly with Maruti Udyog Ltd.
2. MDTs (Burari), has been established in collaboration with M/S Ashoka Leyland.
3. MDTs (Sarai Kale Khan) as an extension of IDTR Maruti Udyog Ltd. Loni.

In the 11th Plan the above initiative will be continued to open more premier MDTs's in PPP mode. During 2009-10 it is proposed to initiate action to set up a world class MDTs with state of the art facility. Already DDA has allotted land at

Dwarka. There is also a proposal to construct another MDTS at Zulzuli in the 11th Five Year Plan.

All Heavy Vehicle Driving Licence holders have to compulsorily undergo a refresher course at MDTSs before getting the licences renewed after 3 years.

A need for upgrading the curriculum for these courses on a continuing basis has become mandated through judicial directions. Similarly there is a need to train all the public transport vehicle drivers preparatory to the Commonwealth Games 2010.

It is proposed to organise special training programmes for school bus drivers and non DTC bus drivers through 3 Motor Driving Training Schools being run at Burari, Loni Road and Sarai Kale Khan.

Under Special Component Plan for Scheduled Castes and tribal Sub Plan (SCSP), it is proposed to give financial assistance to SC/ST candidates for drivers training in the MDTS's particularly in Heavy Vehicle driving.

An outlay of Rs.25.00 lakh is proposed in the Annual Plan 2009-10.

3. Computerisation of Records of Transport Department (Rs.100.00 Lakh)

OBJECTIVES

The prime objective of this scheme will be the implementation of the E-Governance plan of the Department of IT for the State for providing a citizen friendly and efficient delivery of services. The strategy planned is networking of existing service centres, online delivery of services and up gradation of existing services including capacity building. The specific activities charted out for the plan period are: -

- a) Issue of smart card based Driving Licences in all zonal offices of Transport Deptt..
- b) Registration of commercial vehicles on smart card.
- c) On line services for the payment of Road Tax, various fees, fines, issue of permits, learners licences, renewals, information and data access and retrieval and linking with Delhi on-line portal.
- d) Networking of Zonal offices, Pollution Checking Centres/Pollution under control centres.

The Transport Department has entered into an MOU with the National Informatics Centre (NIC) to computerize all its major activities at headquarters, zonal and sub-offices for setting up an On-Line Transaction Processing (OLTP) based computer system, on a turnkey basis. The responsibility of NIC involves system analysis, design, software development & implementation, procurement and

installation of hardware and other equipments and they are working in three locations viz. VIU Burari, Auto Rickshaw & Taxi Unit & HQ.

The department had completed the computerization of all authorized pollution checking centres (numbering about 500) during 2006-07. In the second stage, it has been planned to electronically link all the computerized Centres with a server in the Transport Department to receive and store pollution checking data for all centres. Pilot project having 27 Pollution Under control centres have been completed during 2008-09 and it is to be extent to all (about 550 PUC) centres.

An outlay of Rs.100.00 lakh is proposed in the Annual Plan 2009-10.

4. Road Safety and Grant-in-Aid to NGOs (Rs.600.00 lakh)

OBJECTIVES

Awareness building on the importance of Road safety through all available medium for communication is the objective of this scheme. But the focus is more on civil society participation and in particular school children. Observance of the National Road Safety Week will be as usual an important event. It is proposed to prepare an annual action plan with a calendar of activities in the first quarter of the plan year. An evaluation of the activities taken up during the 10th Plan from the point of view of generating awareness in the public will be taken up for improving the scheme content and its implementation. At present the Planning and Monitoring Cell is implementing the scheme. Therefore the professional and technical inputs available in house are very limited. It is therefore proposed to create a separate Directorate of Road Safety in the Transport Department.

An outlay of Rs.600.00 lakh is proposed in the Annual Plan 2009-10.

5. Direction & Administration (Rs. 285.00 Lakh)

OBJECTIVES

(i) Construction and Renovation of Zonal Offices / HQ Building (200 Lakhs)

At present, work related to issue of driving licenses and registration of vehicles is being done through 12 Zonal Offices. Two new Zonal Offices at, Vasant Vihar, and Sukhdev Vihar are ready for opening. One more new Zonal Office at Dwarka will be taken up for construction.

(ii) Strengthening of Enforcement of M.V. Act and Rules

Enforcement Branch of this Department is required to enforce the provisions of Motor Vehicle Act and Rules. But with the latest stringent directions given by the High Court of Delhi this strength is found to be grossly insufficient for ensuring effective compliance of even just the Court's orders. In order to optimise on both staff as well as vehicles it is proposed to introduce Radio Frequency Identification Device for strengthening the enforcement work with better coordination with other branches like STA, Operation Branch, PCD and Computer Branch etc.

(iii) Setting up of a Legal Cell in Transport Department

6. Mass Rapid Transit System (Rs.80000.00 Lakh)

OBJECTIVES

The basic objective will be to increase metro connectivity in Delhi.

Work on Phase II of MRTS for Delhi has already commenced and this will be in full gear during the 11th Plan. Under Phase-II approximate 120 Kms of Metro line will be added before the Commonwealth Games with connectivity to the neighbouring States. The target is to operationalize all the lines before the Commonwealth Games 2010 .The approved lines are: -

S. No	Corridor	Length Kms.	Target Date	Completion Date
1.	Vishwa Vidhyalaya – Jahangir Puri	6.36	Oct ,09	03.02.09
2.	Central Secretariat -Ambedkar Colony-Gurgaon	26.80	Dec,10	
3.	Shahdara – Dilshad Garden	3.10	Dec,08	4.06.2008
4.	Indraprastha – Yamuna Depot-New Ashok Nagar	8.07	June,2009	
5.	New Ashok Nagar – NOIDA Sector – 32	7.05	Dec,09	
6.	Yamuna Depot – Anand Vihar ISBT	6.16	Dec., 2009	
7.	Inderlok-Kirti Nagar – Mundka	18.50	March 10	
8.	Dwarka Sec.9 to Dwarka Sec.21	2.30	Dec,09	
9.	Central Sectt. To Badarpur	20.16	Dec,10	
10.	New Delhi Railway Station to IGI Airport	19.20	Aug,10	
	Total	117.70		

Of the 117.70 kms of phase II, 13.48 Kms. would be underground and 104.22 kms would be elevated. The capital cost of these corridors comes to Rs. 10795 crore.

For improving the metro ridership feeder services are also being introduced by DMRC. Phase III and Phase IV plans to increase the metro line to 245 km approximately by 2021.

In addition to the above a High Speed Express Metro Link between New Delhi Railway Station and IG International Airport Delhi has been sanctioned in the PPP mode. This stretch will be 19.2 kms with 2 intermittent stations. The underground stretch will be about 4 km. The equity contribution of Government of Delhi will be Rs 182 crores and the line will be ready by August 2010 that is before CWG 2010.

The incremental traffic likely to be generated by 2011 on account of addition of Phase-II is expected to be about 15 lakh per day.

The outlays proposed for various activities are as under:-

[Rs. in lakhs]

2008-09			Outlay for 2009-10
	BE	RE	
Studies	100.00	1.00	400.00
MRTS Cell	5.00		5.00
Subordinate Debts	20000.00		
i. Land Acquisition	5850.00	5850.00	
ii. Reimbursement of Central Tax	3250.00	9750.00	1500.00
A. Equity Shares	65088.00	73150.00	78045.00
B. Reimbursement of Works Contract Tax to DMRC	2700.00		50.00
TOTAL	81993.00	88751.00	80000.00

7. Modernisation of Infrastructure for Certification of Road Worthiness of Transport Vehicles [Rs.350.00 Lakh)

OBJECTIVE

Under the provisions of Motor Vehicle Act, 1988 all Transport Vehicles are required to carry a valid "Certificate of Fitness" without which the registration of the vehicle is treated as invalid. This Certificate is required to be obtained annually from the competent authority. Transport Department has set up two automated vehicle inspection and certification lanes at present in Burari and these are functional. The test data generated is automatically stored in computer without revealing test results

to the operator to avoid subjective bias. All test equipments are networked. The test system hardware and software architecture is flexible and expandable to enable easy future field addition of new tests.

The action plan for Inspection & Certification lanes for financial year 2009-10 as follows:

S.No	Activities	Remarks
1.	Redevelopment of Burari complex	For modernizing of infrastructure development
2.	Extension of Automated Test lanes	This consist of Automated lanes and on road inspection.

8. Decongestion and Rationalisation of ISBTs (Rs.1000.00 Lakh)

OBJECTIVES

At present, three ISBTs are functioning from Kashmere Gate, Anand Vihar and Sarai Kale Khan. The old ISBT at Sarai Kale Khan is being rebuilt as a modern ISBT. With the change in the development control norms in MPD 2021, the lay out plan require drastic revision for availing the maximum permissible FAR and therefore the original cost estimates for the Sarai Kale Khan ISBT project will require substantial upward revision. Now it is under consideration for **construction** on PPP. Two more new ISBTs, on modern lines, are proposed to be constructed (i) in South-West at Dwarka and (ii) in North Delhi at Narela on BOT basis. Land for both the new ISBT's have been allotted by the DDA . The Anand Vihar ISBT will also be rebuilt as per new norms integrating the Bus Stand with Rail and Metro before the CWG 2010.

The approved outlay of Rs.1000 lakh includes Rs. 200 lakh for revenue expenditure and Rs.800 Lakh for capital works mainly for renovation / development works of ISBT Kashmere Gate.

9. Control of Vehicular Pollution from the Exhaust of Motor Vehicles (Rs.250.00 Lakh)

Aims & Objectives of the scheme:

This scheme is being implemented with the following objectives:

- i. To control pollution caused by motorized vehicles plying in Delhi.
- ii. To create awareness amongst the motoring public in particular and public in large about the effects of various vehicular pollutants.

- iii. To provide adequate pollution checking and certification facilities in Petrol Pumps and Workshops.
- iv. To enforce standards of various pollutants emitted by the vehicles prescribed in the Central Motor Vehicles Rules, 1989.
- v. To facilitate enforcement of pollution control related orders of Supreme Court and environment pollution(prevention & control)Authority for the NCR region.

The important activities stated for 2008-09/2009-10 are:-

1. Creation of public awareness.

Following mass awareness activities are proposed:

- Advertisement in newspapers
- Installation of bus panels/bus shelters/kiosk.
- Printing of hand bills and other educational materials
- Holding of educational talks, seminars, workshops ,street plays etc.
- Ministry of Road transport and Highways, Govt. of India will be requested for modification and enacts changes in Motor Vehicle Act to make mandatory periodic testing of all major safety parameters for non-transport vehicles.

2. Load mode Test for Diesel/ CNG vehicles:

The rule 115 of CMVR, 1989 prescribed free acceleration method for testing the smoke density of diesel engine vehicles which is vague in nature and provides scope for manipulation in measurement of smoke density. Studies show that smoke opacity test currently done under PUC system has poor correlation with particulate emission. It is therefore, proposed that a short transient dynamometer test procedures for in use diesel vehicles be defined and implemented in which both visible smoke and particulate matter can be measured. Similarly, a loaded test for CNG vehicles may also be developed for measurement of the NOX.

10. Re-Structuring and Revival of Delhi Transport Corporation [Rs. 34086.00 Lakh)

OBJECTIVES

6000 new buses shall be purchased before 2010. 500 Non AC Low Floor buses, 300 Diesel Buses(AC and Non AC), 902 Non AC Low Floor buses, 600 AC Low floor buses, 750Non AC semi low floor, 250 AC semi low floor & 1000 standard CNG

buses are expected to be added to the DTC fleet. These buses have been specially designed for travel comfort of the commuters. These will be disabled friendly. Order for 2500 low floor CNG buses has been placed in Sept.2008. Delivery is expected from March 2009. DPR has been prepared and submitted for purchase of new DTC buses in 2009-10 under JNNURM also.

11. Integrated Multi-Modal Transport System – JNNURM Funds Development of Alternative Modes of Transport (Rs. 6000.00 Lakh)

The Committee on Sustainable Transport, after having considered all aspects, recommended that in addition to augmenting mass transport options, the way forward is to evolve policies and instruments to discourage the use of personalized vehicles in Delhi. A Special Purpose Vehicle known as Delhi Integrated Multi Modal Transit Systems Company Ltd. has been incorporated.

Alternative transport modes including Metro for improving the public transport system have been planned as detailed below:

Modes	Corridors	Length
Metro	6	115 Km
At-grade BRT	26	294 Km
Elevated LRT	6	74 Km
Elevated Monorail	3	48 Km
IRBT	2	44 Km

Bus Priority Lanes (BRT System) (Rs.6000.00 Lakh)

BRT system is one of the priority programmes of Delhi Government. For this programme, seven corridors have been identified. For smooth operation of such buses, road stretches, that create bottlenecks in the running of buses, would be systematically improved through road re-engineering, route by route, for better bus turn-around time and improvement in the quality of service. Preferential traffic signalling for BRT, at intersections, shall be provided to avoid delay at crossings.

Out of the 26 BRT corridors identified, following seven corridors are proposed for completion and operation during the 11th Plan.

S.No.	Corridor	Length (Kms.)
1.	Dr.Ambedkar Nagar to Delhi Gate	14.5
2.	Jamia to Tilak Nagar	28
3.	Mool Chand Hospital to Jahangir Puri	27.5

S.No.	Corridor	Length (Kms.)
4.	Nizamuddin Flyover to Nand Nagri	15
5.	Kondli to Gokulpuri	14
6.	Rajinder Nagar – Pragati Maidan	8
7.	Shastri Park to Karawal Nagar via Bandh Road	8.5

The work on the first corridor Ambedkar Nagar to Delhi Gate is already in progress. This corridor was targeted for completion during 2008-09. Estimates for 6 corridors have been approved by EFC. But further work will be taken up only after successful implementation of piolet project i.e. on Ambedkar Nagar to Delhi Gate and the investment decisions, in the feasible cases, would taken up accordingly.

12. Setting up of An Unified Metropolitan Transport Authority for Delhi (Rs.5.00 Lakh)

OBJECTIVES

In Delhi, there is a multiplicity of authorities dealing with transport planning and regulation like PWD, MCD, NDMC, DDA, Traffic Police, Railways, Delhi Metro Rail Corporation, NHAI, Transport Department and DTC etc. They are engaged in different activities like construction and maintenance of roads, subways, over bridges, providing of traffic signals, road furniture, enforcement of the Motor Vehicles Act, 1988 and the Rules framed there under etc. In order to bring forth effective coordination amongst various agencies the Central Government in the Ministry of Urban Development has proposed the setting up of an Unified Metropolitan Transport Authority to be called the Delhi Metropolitan Transport Authority through a legislation. This matter is under examination in the Government of Delhi. The bill for constituting the DMTA is likely to be passed by parliament this year. However a provision for meting the the Secretariat expenses of the proposed Authority has been under annual plan .

13. Incentive for Replacement of Old Light Commercial Vehicle (Rs.3000.00)

OBJECTIVES

The Govt. of Delhi has been assisting the conversion of vehicles to clean fuel under this scheme. It is proposed to assist vehicles for adopting fuel efficient technologies with reduced emission levels.. Incentive in the form of subsidy which will be equal to Value Added Tax (VAT) of the new vehicle will be provided under this scheme as per Cabinet Decision No. 1333, January 2008.

14. Studies and Consultancy Services (Rs.680.00 Lakh)

OBJECTIVE

For the implementation of MPD 2021, DTC's Revival and Restructuring Plan and for planning transport arrangements for CWG 2010 a number of studies and consultancies will have to be awarded during 2008-2009. These will be funded under this scheme.

15. Loan to Transport fund for development of ISBTs (Rs. 100.00 lakh)

Government of Delhi has decided to establish a trust in the name of Delhi Urban Transport Fund Trust. The Trust has been created with the objectives of providing funding support to cause Development, Implementation, Operation for Urban Transport Infrastructure and funding of the expenses associated with Transport Planning, Project Development Expenses for specific projects, Capital Expenditure support for specific projects and operations and maintenance expenditure for providing sustainable public services and to meet the expenses for development of external infrastructure for all ISBTs. Therefore a token provision of Rs. 100 lakh proposed for the Annual Plan 2009-10.