DELHI MRTS PROJECTS

Delhi MRTS Project Phase I

The Delhi MRTS project is being implemented by the Delhi Metro Rail Corporation (DMRC) Ltd. set up in May 1995 with equity participation by the GOI & GNCTD in the ratio of 50:50, i.e., equal participation.

The Government of India approved the investment proposals for Phase-I of the Delhi MRTS Project on 17th September, 1996

On 4.8.2000 and 25.7.002 and 30.9.2004 further changes in the corridor were approved.

Line	Corridor	No. of	At Grade	Elevated	Underground	Total (Km)
No.		stations	(Km)	(Km)	(Km)	
1.	Shahdara–Rithala	18	4.5	17.56	0	22.06
2.	Vishwavidyalaya	10	0	0	10.84	10.84
	– Central					
	Secretariat					
3.	Indraprastha –	25	0	23.48	2.17	25.65
	Dwarka					
	Total	53	4.5	41.04	13.01	58.55
	Dwarka Sub-city	6	0	6.5	0	6.5
	(Dwarka –					
	Dwarka VI)					
	Grand Total	59	4.5	47.54	13.01	65.05
	(Including					
	Dwarka Sub-city)					

The first phase of the project consists of the following corridors:-

The estimated cost of the project is Rs. 10571 crore.

Funding of the project

Financing Pattern as approved by the GoM on 16.12.2002 is:-

Government Equity	Rs.2928
(from GoI & GNCTD in equal	(28%)
proportion)	
Subordinate debt towards	Rs. 504 crore
cost of land(from GOI & GNCTD in	(5%)
equal proportion)	
Japanese Bank for International	Rs. 6839 crore
Cooperation (JBIC) loan	(64%)
Proceeds from property	Rs.300 crore
development	(3%)

Total	Rs. 10571 crore
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Funds released by Ministry of Urban Development

		(Rs. in crore)
	9 th Plan	10 th Plan
	1997 to 2002	2002 to 2007
Particulars	Phase I	Phase I
Equity	565.00	846.20
S. Debt*	199.00	53.00
PTA**	879.35	5477.10
Total	1643.35	6376.30

*Subordinate Debt for land acquisition.

**Pass Through Assistance against JBIC loan.

Schedule of completion

Line 1 Shahdara – Rithala

- Shahdara-Tis Hazari section has been completed and commissioned on 24.12.2002.
- Tis Hazari Inderlok section has been commissioned on 3.10.2003.
- Inderlok Rithala section has been commissioned on 31.3.2004.

Line 2 Vishwavidyalaya - Central Secretariat

• Vishwavidyalaya – Kashmere Gate section has been commissioned on 20.12.2004.

• Kashmere Gate – Central Secretariat has been commissioned on 3.7.2005. Line 3 Barakhamba Road – Kirti Nagar – Dwarka

• Barakhamba Road – Dwarka section has been commissioned on 31.12.2005. Extension of Line 3

- Extension into Dwarka sub-city commissioned on 1.4.2006.
- Barakhamba Road Indraprastha commissioned on 11.11.2006

Cumulative expenditure incurred upto 31.3.2007 is Rs.10349.59 crore. **Cumulative physical progress** is 100%.

Delhi MRTS Project Phase II

The project has been approved by the Government and necessary sanction issued by the Ministry on 30.3.2006 for implementation at an estimated cost of Rs.8118 crore and revised alignment from IIT to Qutab Minar on 4.12.2006 at an estimated cost of Rs.558 crore, i.e. a total of Rs.8676 crore) (54.675 km.).

Alignment :

The Phase II of the project will consist of the following alignment :-

	Corridor	Len	<u>gh(Km.)</u>	Target date
(1)	Vishva Vidyalaya – Jahangir Puri	-	6.36	31.10.2009
(2)	Central Secretariat – Qutab Minar -	12.525	5 30.6.	2010
(3)	Shahdara – Dilshad Garden -	3.09	31.12	.2008
(4)	Indraprastha – New Ashok Nagar -	8.07	30.6.2	2009
(5)	Yamuna Bank – Anand Vihar ISBT	-	6.16	31.12.2009
(6)	Kirti Nagar – Mundka		18.47	31.3.2010
	(along with operational link to Inderl	ok)		

The proposals in respect of the IIT – Qutab Minar portion (2.88 Kms) of the proposed Central Secretariat to Qutab Minar line was reviewed and cost – benefit analysis of alternative proposals carried out in the context of its impact on the Qutab Minar, by DMRC as per decision of GoM.

The revised alignment from Green Park to Ambedkar Colony via Hauz Khas, Sarvapriya Vihar, Malviya Nagar and Saket has been approved by the GoM on 17.10.2006.

Capital Cost :

The original completion cost of the project was estimated at Rs.8118 crore. The revised alignment from Green Park to Ambedkar Colony will involve additional cost of Rs.558 crore. Thus revised completion cost is estimated at Rs.8676 crore (including land cost, but excluding interest during construction).

<u>Financing Plans</u> :

Particulars	Percentage of investment	Amount of investment	Remarks
		(Rs. in crore)	
Equity	30	2435	To be shared
			equally by GoI and
			GNCTD
Loan from JBIC	56	5081	

Property Development	5	405	
Internal resources	5	405	
Sub-Ordinate Debt	4	350	To be shared equally by GoI and GNCTD
Total	100	8676	

JBIC Loan position

- Pursuant to the above investment approval, GoI had approached Japan Bank for International Co-operation (JBIC) for providing loan to the extent of Rs.6030 crore including cost of rolling stock.
- JBIC has committed first tranche of loan amount of Japanese Yen (JPY) 14,900 million (Rs.591 crore).
- JBIC has also committed 2nd tranche of JPY 13,583 million (Rs.539 crore) as against loan sought by DMRC of Rs. 2235.56 crore due to funds contraint.
- DEA has also requested to consider JBIC loan of Rs.2143 crore for Central Secretariat to Badarpur as part of Phase II.

Funds released by Ministry of Urban Development

(Rs. in crore) 11th Plan **10th Plan** 2002 to 2007 2007-08 **Particulars** Phase II Phase II Equity 387.00 150.00 S. Debt* 116.00 20.00 **PTA**** 424.00 309.41 927.00 479.41 Total

*Subordinate Debt for land acquisition.

**Pass Through Assistance against JBIC loan.

Present status

Cumulative expenditure upto 30.6.2007 is Rs.1065.81 crore

Overall physical progress is 12.32%.

Corridor

Progress (in %age)

(1)	Vishva Vidyalaya – Jahangir Puri	-	17
(2)	Central Secretariat – Qutab Minar -		2
(3)	Shahdara – Dilshad Garden -		11

(4)	Indraprastha – New Ashok Nagar -			8
(5)	Yamuna Bank – Anand Vihar ISBT	-		10
(6)	Kirti Nagar – Mundka	-	11	1

Extension of Delhi Metro Phase-II to Gurgaon

Extension of Delhi Metro from Ambedkar Colony in Delhi to Sushant Lok in Gurgaon (14.47 km.) has been approved by Government of India (GoI) for implementation at a total estimated completion cost of Rs.1600.92 crore including taxes and duties.

Approved funding plan is as under : –

Haryana portion:

- a) Land Rs.20 crore by Govt. of Haryana (GoH).
- b) Capital cost of Network Rs.570 crore to be shared by GoH & GoI in 80:20 ratio.
- c) Rolling Stock Rs.98 crore by DMRC.

Delhi portion:

- a) Land Rs.49 crore to be shared equally by GoI and GNCTD as subordinate debt.
- b) Balance Project cost: Rs.685 crore of which Rs.352 crore proposed for JBIC loan and Rs.111 crore each by GoI, GNCTD as equity and GoH as grant.

Present Status

Project has been taken up for implementation by Delhi Metro Rail Corporation Ltd. (DMRC).

State Government has been requested to pass resolutions by Haryana State Assembly to enable Parliament to legislate for extension of Metro Railways (Construction of Works) Act, 1978 and Delhi Metro Railway (Operation and Maintenance) Act, 2002 to the State of Haryana for providing legal cover to the project.

Necessary resolutions have been passed by the Haryana Vidhan Sabha on 22.3.2007 which have been communicated by the State Government to this Ministry on 12.4.2007.

The project is targeted for completion by 31.7.2010.

Funds Position

DMRC had requested for release of following funds during 2006-07:-

			<u>(Rs</u>	. in crore)
i)	Equity	:-	27.50	
ii)	Subordinate De	ebt	:-	24.50
iii)	Grant		:-	28.50

Ministry of Finance was requested to provide the above funds in the 3rd Batch of Supplementary Demand for Grants and also subsequently by way of re-appropriation out of available savings in the Ministry's budget during 2006-07. However, this was not agreed to by that Ministry. As such, funds could not be sanctioned by this Ministry to DMRC during 2006-07.

Govt. of Haryana released its share of Rs.141.75 crore to DMRC ruing 2006-07.

It may be mentioned that following funds have been sanctioned by this Ministry to DMRC during 2007-08 based on 'Vote on Account' approved by Parliament :-

Equity (Delhi portion)	-	Rs.27.75 crore
Subordinate Debt	-	Rs.10.00 crore
(Delhi portion)		
Grant (Haryana portion)	-	Rs.10.01 crore

Extension of Delhi Metro Phase-II To NOIDA

- Extension of Delhi Metro from New Ashok Nagar to Sector 32, NOIDA (7 km) approved by GoM 'in principle' on 17.10.2006 subject to fulfillment of certain conditions by Govt. of Uttar Pradesh (GoUP), such as obtaining clearance of GNCTD which is 50% owner of DMRC.
- Estimated completion cost Rs.736 crore excluding taxes and duties(Rs.840.56 crore including customs and excise duty).
- Funding Plan
 - a) Land Rs.32 crore by NOIDA
 - b) Capital cost of Network Rs. 611 crore to be shared by GoUP & GoI.
 - c) Rolling Stock Rs.93 crore by DMRC.
- Contribution of GoUP/NOIDA as grant to DMRC.
- Contribution of GoI 20% of Rs. 611 crore.
- Legal cover GoUP has been requested and reminded to pass resolution by State Assembly to enable Parliament to legislate for extension of Metro Railways (Construction of Works) Act, 1978 and Delhi Metro Railway (Operation and Maintenance) Act, 2002 to the State of Uttar Pradesh. Copy of the resolution is awaited. GoUP has recently sought clarifications from the Ministry on this issue.
- GNCTD has communicated approval of the State Govt. for extension of Delhi Metro to NOIDA.
- DMRC has been requested to take further action to submit relevant documents for obtaining final approval of Empowered Group of Ministers (EGoM).

<u>Central Secretariat – Badarpur</u>

- Central Secretariat Badarpur corridor has been considered and approved by EGoM at a cost of Rs.4012 crore (with taxes) on 20.4.2007.
- Sanction order has been issued by the Ministry on 17.5.2007 for implementation by DMRC.
- It will provide connectivity to Jawaharlal Nehru Stadium and Dr. Karni Singh Shooting Range at Tughlakabad for Commonwealth Games, 2010. State Government may exempt the State taxes.
- It will serve many important residential and commercial centres along the corridor and provide connectivity to Faridabad in future.
- Salient features are as under :-

Length		
Underground	:	5.16 km
Elevated	:	15.0 km
Total length	:	20.16 km
Gauge	:	Standard (1435mm)
0	:	15
Area to be served	:	Central Secretariat, Khan Market, JLN Stadium,
		Lajpat Nagar, Moolchand, Kailash Colony, Nehru
		Place, Kalkaji, Okhla, Jasola, Sarita Vihar, Mohan
		Cooperative Industrial Estate, Tughlakabad,
		Badarpur.
Ridership	:	3.60 lakh passengers/day in 2011
-		5.05 lakh passengers/day in 2021
Maintenance Depot	:	Sarita Vihar
Estimated cost		
Without taxes	:	Rs. 3270 cr. (at June, 2006 prices)
With Taxes	:	Rs. 3640 cr. (at June, 2006 prices)
Taxes and Duties	:	Rs. 370 cr.
Completion cost –		
Without taxes	:	Rs. 3603 cr.
With taxes	:	Rs. 4012 cr.
FIRR	:	2.95 % (without taxes and duties)
	:	1.45 % (with taxes and duties)
EIRR	:	26.02%
Target completion date	:	June, 2010

Funding Plan

Equity by GoI	:	17%	Rs.612.50 cr.
Equity by GNCTD	••	17%	Rs.612.50 cr.
*Subordinate debt on account of land cost by	:	6.52%	Rs. 235 cr.
GoI and GNCTD in equal proportion			(Rs.117.50 cr.
			each)

**JBIC Loan (as pass through assistance to	:	59.48%	Rs.2143 cr.
DMRC by GoI)			

- * The Subordinate Debt shall be increased to provide for the additional cost on account of Central taxes and duties.
- **Department of Economic Affairs has recommended to Government of Japan for JBIC loan. JBIC team has appraised the project

Financial Phasing

<u>Year</u>	<u>Rs. in C</u>	<u>Rs. in Crore</u>		
	(without	(with		
	Taxes)	taxes)		
2007-08	1219	1343		
2008-09	1021	1143		
2009-10	1250	1400		
2010-11	113	126		
Total:	3603	4012		

• Rs.5 crore and Rs.100 crore as equity contribution by GoI has been sanctioned by the Ministry on 22.5.2007 and 28.6.2007 respectively.

High Speed Express Link from New Delhi Railway Station to IGI Airport

- High Speed Express Link from New Delhi Railway Station to IGI Airport has been considered and approved by Empowered Group of Ministers (EGoM) at a cost of Rs.3076 crore (with taxes) on 20.4.2007.
- Sanction order has been issued by the Ministry on 17.5.2007 for implementation by DMRC.
- The Express Link on completion will :-
 - cater to the growing traffic demands which is expected to grow from 12 million passengers in 2004-05 to 36.7 million in 2011-12 and 100 million by 2036; 30% of this traffic falls in the proposed area of the project out of which 50% are expected to use this link;
 - facilitate fast evacuation of passengers and visitors at the airport;
 - Duration time of travel to Airport will be reduced from 40-50 minutes to 16 minutes.
 - reduce road traffic congestion and pollution;
- The Express Link will be on standard gauge with maximum speed of 135 kmph.
- It will be different from a normal metro with provision for sitting arrangements and luggage carrying capacity.
- <u>Alignment</u>
 - New Delhi Railway Station, Baba Kharak Singh Marg, Wellington Crescent, Sardar Patel Marg, Dhaula Kuan and National High No.8 to IGI Airport.

• <u>Length</u>

Underground length-	5.5 km
Elevated length	- 11.6 km
Switchover ramp	- 2.1 km

Total - 19.2 km

• <u>Cost estimates</u>

The overall capital cost for the line at March, 2006 price level works out to be Rs.2380.70 crore (excluding taxes and duties). The completion cost is Rs.3076 crore (with taxes).

<u>Financing Plan</u>

It shall be implemented on PPP mode as follows :-

(Rs. in crore)

Particulars	With Taxes
Grant by Airport Operator towards civil jobs inside the airport	350 (12%)
Equity by the Government of India (GOI) towards civil jobs	
outside airport	599 (19%)
Equity by GNCTD towards Civil Jobs outside airport	599 (19%)
Equity by Concessionaire to maintain debt to equity ratio of	
7:3	461 (15%)
Domestic Debt @10% by Concessionaire	1067(35%
Total	3076 (100 %)

Financial Phasing

<u>Year</u>	<u>Rs. in Crore</u>	
	(with taxes)	
2007-08	353	
2008-09	1073	
2009-10	1193	
2010-11	332	
2011-12	125	
Total:	3076	

• DMRC would be executing the civil works and fix up the concessionaire for track signaling, OHE, rolling stock, operation and maintenance. The cost of all works except civil works shall be borne by concessionaire.

Funds released during 2007-08

• Rs.10 crore and Rs.100 crore as equity contribution by GoI has been sanctioned by the Ministry on 22.5.2007 and 28.6.2007.