

PROPOSED PROJECT PROFILE
for SITRAMP 2
Prepared by the JICA Study Team, Jan. 2004

Project No. C-03	Project Title Unification and Upgrading of Area Traffic Control System in Jakarta		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Various signalized intersections in Jakarta	Project Priority <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 3 years	
1. Summary of Objectives - To improve efficiency of signal control - To alleviate congestion at bottleneck - To collect and disseminate traffic information		2. Expected Benefits/Outputs - Higher travel speed and shorter travel time - Less fuel consumption - Less pollutant	
3. Project Description - Introduce traffic responsive and adaptive control using vehicle detectors for efficient signal control - Total of 400 intersections		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project - Replace the existing three (3) ATC systems		6. Implementing Agency DKI, Dinas Perhubungan	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 210 B</u> Annual Recurrent O & M: <u>Rp. 4.2 B</u>		8. Special Considerations -	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

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Project No. C-04	Project Title Bus Priority Measures in Jakarta		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Major bus corridors in Jakarta	Project Priority <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 7 years	
1. Summary of Objectives - To give priority to bus operation and support better bus service		2. Expected Benefits/Outputs - Less congestion by diverting to public transportation - Less fuel consumption owing to use of mass transit	
3. Project Description Hardware improvement measures <ul style="list-style-type: none"> • Exclusive bus lane • Bus contra-flow lane • Bus priority signal • Exemption of buses from turning restriction Operational improvement measures <ul style="list-style-type: none"> • Punctuality and adherence to time table • Bus location system • Various discounted fares • Long operating hours 		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project		6. Implementing Agency Dinas Perhubungan, DKI Jakarta	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: - Annual Recurrent O & M: -		8. Special Considerations	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

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Project No. C-05	Project Title Traffic Information System for Surface Road		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Various key intersections in Jakarta	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 1.8 years	
1. Summary of Objectives - To collect and disseminate traffic information for better management of road traffic		2. Expected Benefits/Outputs - Less congestion - Less fuel consumption - Less pollutant	
3. Project Description - Vehicle detectors at 100 key intersections in Jakarta - Data transmission through existing signal system - 16 changeable message signs - Establishment of Traffic Information Center		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project - Technical feasibility to add vehicle detectors to the existing ATC system		6. Implementing Agency DKI, Dinas Pekerja Umum	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 57.6 B</u> Annual Recurrent O & M: <u>Rp. 1.2 B</u>		8. Special Considerations - Simultaneous replacement of the existing ATC systems would be more economical in the long run	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

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Project No. C-06	Project Title Management of Public Transportation in Bodetabek		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Congested points such as market (Pasar) bus terminals, and intersections where passengers are waiting for buses	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 4 years	
1. Summary of Objectives - To alleviate traffic congestion by regulating public transportation		2. Expected Benefits/Outputs - Less congestion - Less fuel consumption - Less pollutant	
3. Project Description An oversupply of public transport is observed, at least, during off-peak hours. Regulatory measures to make behavior of public transport operators more orderly must be implemented, and, if necessary, reduction of the supply such as rotation of operation by plate number can be considered.		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project -		6. Implementing Agency Dinas Perhubungan, Local Government	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: Annual Recurrent O & M:		8. Special Considerations	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

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Project No. C-07	Project Title Traffic Management at Pasar in Bodetabek		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Vicinity of pasar in 7 kota and kabupaten	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 1.7 years	
1. Summary of Objectives - To alleviate congestion and streamline traffic around pasar		2. Expected Benefits/Outputs - Higher travel speed and shorter travel time - Less fuel consumption - Less pollutants - Less traffic accident	
3. Project Description - Application of various traffic management techniques to pasar area - Total of 21 pasar in 7 Kota and Kabupaten		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project		6. Implementing Agency Dinas Pekerja Umum or Dinas Perhubungan in Kota and Kabupaten	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 12.4 B</u> Annual Recurrent O & M: None		8. Special Considerations -	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

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Project No. C-08	Project Title Traffic Engineering (Geometric) Improvement in Bodetabek		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Various bottleneck points in Bodetabek	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 2.5 years	
1. Summary of Objectives - To alleviate congestion at bottleneck sections in Bodetabek		2. Expected Benefits/Outputs - Higher travel speed and shorter travel time - Less fuel consumption - Less pollutant - Less accident	
3. Project Description - Improvement at bottleneck sections by various traffic engineering measures such as geometric improvement, traffic signal, traffic regulation, marking and sign - Total of 42 bottleneck sections in 7 Kota and Kabupaten		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project		6. Implementing Agency Dinas Pekerja Umum or Dinas Perhubungan of Kota and Kabupaten	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 21.5 B</u> Annual Recurrent O & M: None		8. Special Considerations -	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

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Project No. C-09	Project Title Toll Road Traffic Information System		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Jakarta Intra-urban Tollway, Sections of radial toll roads, Jakarta Outer Ring Road	Project Priority <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period Phase 1: 3 years Phase 2: 3 years	
1. Summary of Objectives - To achieve efficient and safe operation of toll road network in Jabodetabek area		2. Expected Benefits/Outputs - Less severe traffic congestion - Quicker response to incident - Less pollutant - Better service to toll road users	
3. Project Description - System covers a total of 215 km of toll road - Control center will be established - Various surveillance equipment - Digital communication network along toll road - System will be constructed in two phases		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project		6. Implementing Agency PT. Jasa Marga	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 872 B</u> Annual Recurrent O & M (Phase 1): <u>Rp. 28.5 B</u> (Phase 2): <u>Rp. 44.8 B</u>		8. Special Considerations -	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

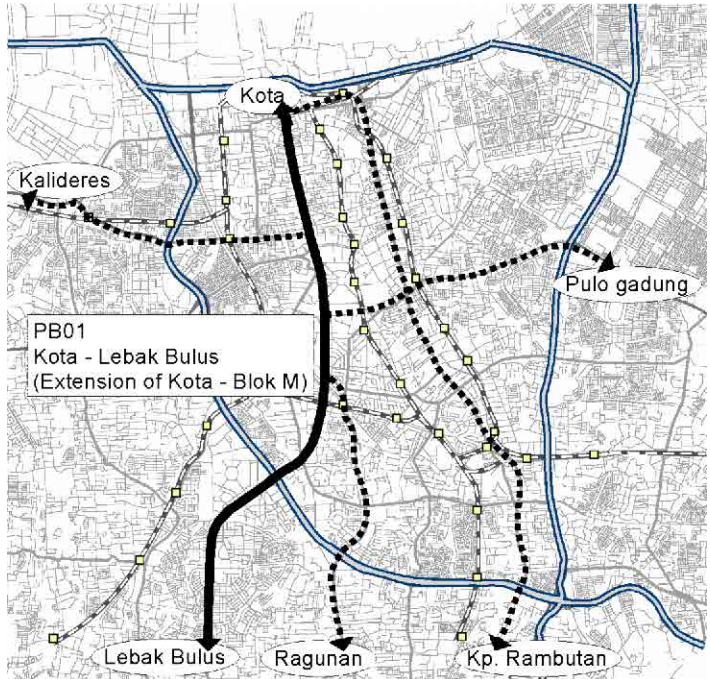
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Project No. C-10	Project Title Electronic Toll Collection (ETC) System		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Various bottlenecks in Jakarta	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 2.5 years	
1. Summary of Objectives - To achieve faster toll transaction at toll gate		2. Expected Benefits/Outputs - No stopping at toll gate for ETC users - Less queue at toll plaza - Less pollutant	
3. Project Description - All on- and off-ramp in Jabodetabek toll road with a total of 179 ETC equipped toll gates. - Central computer for batch processing of toll transactions - On-board tag to be purchased by user		4. Project Linkages/Other Sector Linkages	
5. Important Assumptions/Conditions for the Project - Rationalization of toll structure is necessary.		6. Implementing Agency Jasa Marga or a third party	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 610.8 B</u> Annual Recurrent O & M: <u>Rp. 14.7 B</u>		8. Special Considerations -	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings	

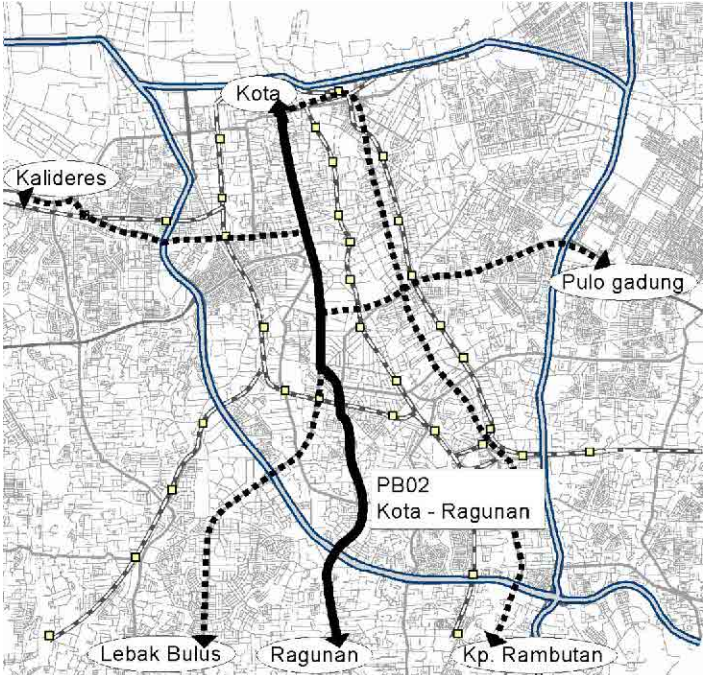
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Project No. C-11	Project Title Rehabilitation and Installation of Traffic Signals		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Major intersections in Jakarta and Bodetabek	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 4 years	
1. Summary of Objectives - To achieve efficient traffic flows and ensure traffic safety by rehabilitation and installation of traffic signals		2. Expected Benefits/Outputs - Smoother traffic flows - Less delays at intersections - Safer from vehicular traffic	
3. Project Description - Repair broken traffic signals and installation of traffic signals		4. Project Linkages/Other Sector Linkages Installation of new traffic signals should be consistent with further traffic signal developments in the future	
5. Important Assumptions/Conditions for the Project		6. Implementing Agency Dinas Perhubungan	
7. Estimated Investment Requirement (in 2003 prices) Project Implementation: <u>Rp. 245 B</u> Annual Recurrent O & M:		8. Special Considerations -	
9. Environmental Impact 1) Social Environment Resettlement necessity: D Change of economic activity patterns: D Change of social movement patterns: D Cultural Heritage: D Water right, fishing right: D Public health: B Construction wastes: D Risk for disaster/accident: B 2) Natural Environment Aesthetics: D River, underground water and erosion: D Flora and Fauna: D Meteorology: D 3) Pollution Air pollution: B Water pollution: D Soil contamination: D Noise and vibration: B Land depression: D Stench: D <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		10. Location Map/Information/Drawings Not specified on the map	

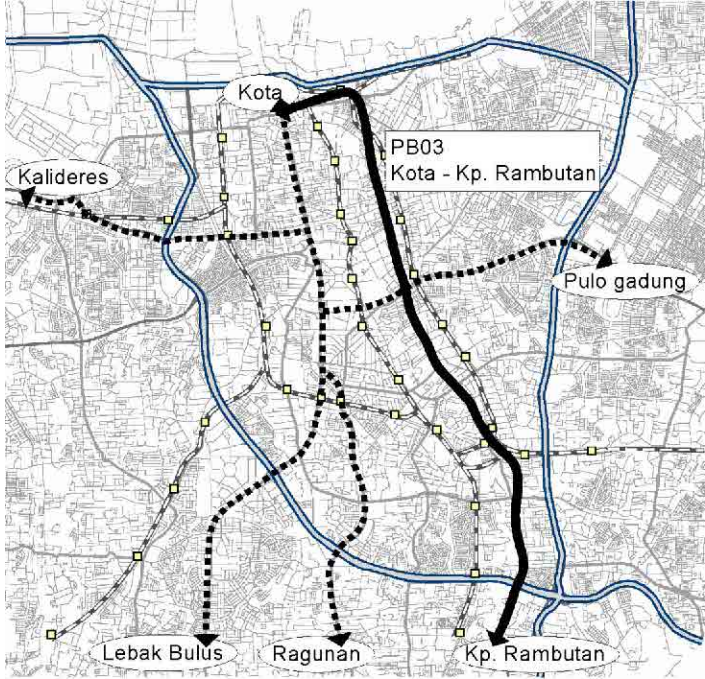
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Project No. PB-01	Project Title Busway System (1) Kota-Lubak Bulus (Extension of Kota-Blok M)	Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Lebak Bulus – Blok M – Monas - Kota	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 4 years (2004-2007)
1. Summary of Objectives - Promoting public transport system		2. Expected Benefits/Outputs - Reducing travel time of the public mode - Improving quality of life - Increasing employment opportunities
3. Project Description - Introduction of Busway System - Total length : 21.0 km		4. Project Linkages/Other Sector Linkages Coordination with MRT project
5. Important Assumptions/Conditions for the Project		6. Implementing Agency DKI Jakarta and/or Jakarta Transport Authority
7. Estimated Investment Requirement (in 2003 prices) For Project cost in Total: <u>Rp. 771.7 B</u> Road widening (R-24) <u>Rp. 711.1 B</u> Others: <u>Rp. 60.6 B</u>		8. Special Considerations - Exclusive bus lanes along the median will be required - Road widening will be done where the number of lanes is less than 6 - Large terminal facilities will be needed at the major transferring points
9. Environmental Impact 1) Social Environment - Resettlement is needed where road widening is required 2) Natural Environment - Unknown 3) Pollution - Improving the Air pollution	10. Location Map/Information/Drawings  <p>The map displays the proposed busway route (PB01) as a thick black line starting from Kota and extending south to Lebak Bulus. A dashed line indicates the extension from Kota to Blok M. Other locations marked include Kalideres, Ragunan, Kp. Rambutan, and Pulo gadung. The map also shows major roads and waterways in the area.</p>	

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Project No. PB-02	Project Title Busway System (2) Kota-Ragunan	Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Ragunan – Kuningan – Monas - Kota	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 4 years (2004-2007)
1. Summary of Objectives - Promoting public transport system		2. Expected Benefits/Outputs - Reducing travel time of the public mode - Improving quality of life - Increasing employment opportunities
3. Project Description - Introduction of Busway System - Total length : 17.5 km		4. Project Linkages/Other Sector Linkages
5. Important Assumptions/Conditions for the Project		6. Implementing Agency DKI Jakarta and/or Jakarta Transport Authority
7. Estimated Investment Requirement (in 2003 prices) For Project cost in Total: <u>Rp. 151.8 B</u> Road widening <u>Rp. 0</u> Others <u>Rp. 151.8 B</u>		8. Special Considerations - Exclusive bus lanes along the median will be required - Large terminal facilities will be needed at the major transferring points
9. Environmental Impact 1) Social Environment - Resettlement is needed where road widening is required 2) Natural Environment - Unknown 3) Pollution - Improving the Air pollution		10. Location Map/Information/Drawings 

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Project No. PB-03	Project Title Busway System (3) Kota-Kampung Rambutan		Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location KP Rambutan - Cawan - Senen - Kota	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 4 years (2004-2007)	
1. Summary of Objectives - Promoting public transport system		2. Expected Benefits/Outputs - Reducing travel time of the public mode - Improving quality of life - Increasing employment opportunities	
3. Project Description - Introduction of Busway System - Total length : 24.0 km		4. Project Linkages/Other Sector Linkages - R22 Improvement of intersections to flyover/underpasses	
5. Important Assumptions/Conditions for the Project		6. Implementing Agency DKI Jakarta and/or Jakarta Transport Authority	
7. Estimated Investment Requirement (in 2003 prices) For Project cost in Total: <u>Rp. 489.7 B</u> Road widening (R-12) <u>Rp. 400.7 B</u> Others <u>Rp.89.0 B</u>		8. Special Considerations - Exclusive bus lanes along the median will be required - Road widening will be done where the number of lanes is less than 6 - Large terminal facilities will be needed at the major transferring points	
9. Environmental Impact 1) Social Environment - Resettlement is needed where road widening is required 2) Natural Environment - Unknown 3) Pollution - Improving the Air pollution		10. Location Map/Information/Drawings 	

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Project No. PB-04	Project Title Busway System (4) Kalideres-Pulogadung	Sector <input type="checkbox"/> Road <input type="checkbox"/> Railway <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
Project Location Kalideres - Monas - Senen - Pulogadung	Project Priority <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	Implementation Period 4 years (2004-2007)
1. Summary of Objectives - Promoting public transport system		2. Expected Benefits/Outputs - Reducing travel time of the public mode - Improving quality of life - Increasing employment opportunities
3. Project Description - Introduction of Busway System - Total length : 25.5 km		4. Project Linkages/Other Sector Linkages
5. Important Assumptions/Conditions for the Project		6. Implementing Agency DKI Jakarta and/or Jakarta Transport Authority
7. Estimated Investment Requirement (in 2003 prices) For Project cost in Total: <u>Rp. 247.3 B</u> Road widening (R-28) <u>Rp. 148.8 B</u> Others <u>Rp. 98.5 B</u>		8. Special Considerations - Exclusive bus lanes along the median will be required - Road widening will be done where the number of lanes is less than 6 - Large capacity terminal facilities will be needed at the major transfer points
9. Environmental Impact 1) Social Environment - Resettlement is needed where road widening is required 2) Natural Environment - Unknown 3) Pollution - Improving the Air pollution		10. Location Map/Information/Drawings 