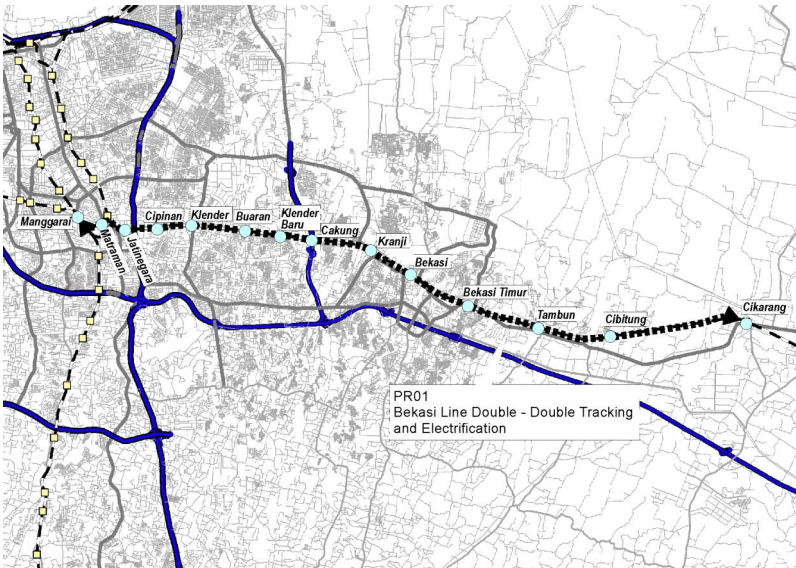
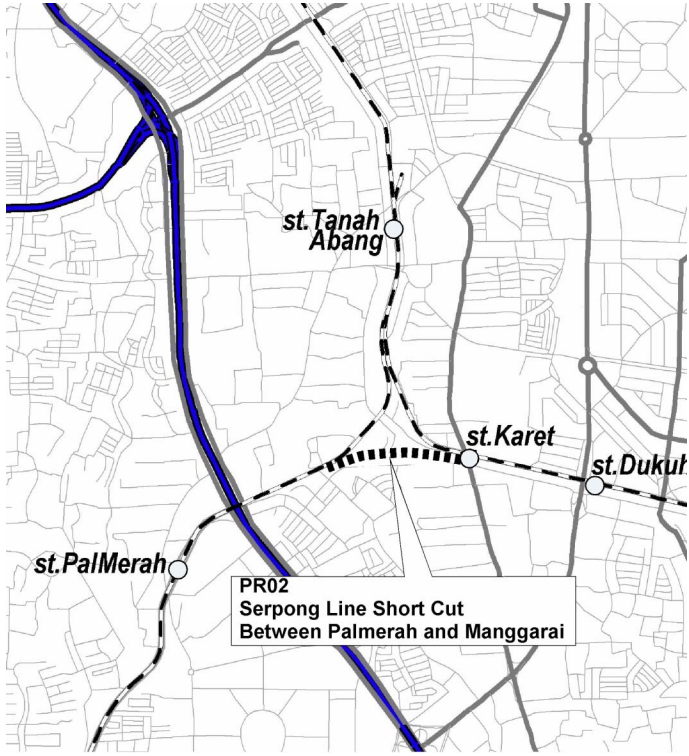


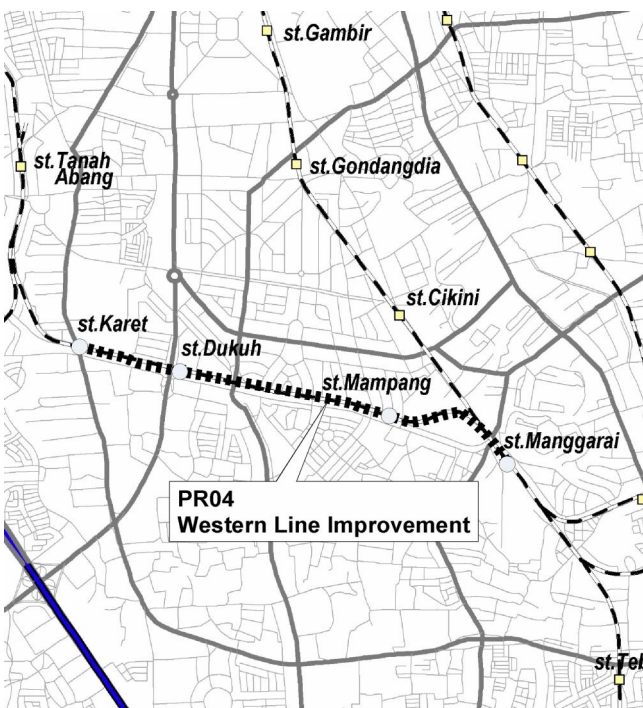
**PROPOSED PROJECT PROFILE  
for SITRAMP 2  
Prepared by the JICA Study Team, Jan. 2004**

<b>Project No.</b> PR-01	<b>Project Title</b> Bekasi Line Double – Double Tracking and Electrification	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Bekasi Line between Cikarang and Manggarai (L=35.0 km)	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 4.5 years
<b>1. Summary of Objectives</b> - To expand the operation capacity, the separated operation between the main and the commuter line by double – double tracking		<b>2. Expected Benefits/Outputs</b> - Track separation between main line train and commuter train - Line capacity increase and speed-up operation
<b>3. Project Description</b> - Double – Double Tracking between Cikarang and Manggarai - Depot Location: Tanah Abang - Total Length: 35.0 km		<b>4. Project Linkages/Other Sector Linkages</b> - Western Line Improvement between Karet and Manggarai - Serpong Line Double Tracking
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 7.986.0 B</u> 1) New Construction: <u>Rp. 7.986.0 B</u> 2) Improvement of Existing Railway: <u>Rp. 0</u> For Annual Recurrent O & M: <u>Rp. 0</u>		<b>8. Special Considerations</b> - No consideration
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: B Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: B Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b> 

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

<b>Project No.</b> PR-02	<b>Project Title</b> Serpong Line Short Cut Between Palmerah and Manggarai		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Serpong Line between Palmerah and Karet Station	<b>Project Priority</b> <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 2 years	
<b>1. Summary of Objectives</b> - To provide direct train operation between Serpong and Manggarai		<b>2. Expected Benefits/Outputs</b> - To increase the passenger volume of this corridor -	
<b>3. Project Description</b> - Embankment works of double tracking - Total Length: 5.2 km		<b>4. Project Linkages/Other Sector Linkages</b> - Serpong Line Double Tracking - Bekasi Line Double – Double Tracking	
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications	
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 1,528.0 B</u> 1) New Construction: <u>Rp. 1,528.0 B</u> 2) Improvement of Existing Railway: <u>0_bil. Rp.</u> For Annual Recurrent O & M: <u>0_bil. Rp.</u>		<b>8. Special Considerations</b> - Cost is including in PR04	
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: B Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b> 	

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

<b>Project No.</b> PR-04	<b>Project Title</b> Western Line Double Double Tracking (Karet – Manggarai)		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Western Line between Karet and Manggarai Station (L=4.3 km)	<b>Project Priority</b> <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input checked="" type="checkbox"/> Long-term	<b>Implementation Period</b> 3 years	
<b>1. Summary of Objectives</b> - To provide direct sufficient and indispensable capacity for direct train operation between Serpong and Manggarai / Bekasi as well as between Tangerang and Manggarai		<b>2. Expected Benefits/Outputs</b> - Bekasi Double – Double Tracking - Serpong Double Tracking	
<b>3. Project Description</b> - Improvement of Signaling, Telecommunication Facilities - Improvement of Station Facilities - Total Length: 4.3 km		<b>4. Project Linkages/Other Sector Linkages</b> None	
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications	
<b>7. Estimated Investment Requirement (in 2003 prices)</b> - Cost is included in PR02		<b>8. Special Considerations</b> None	
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: B Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b> 	

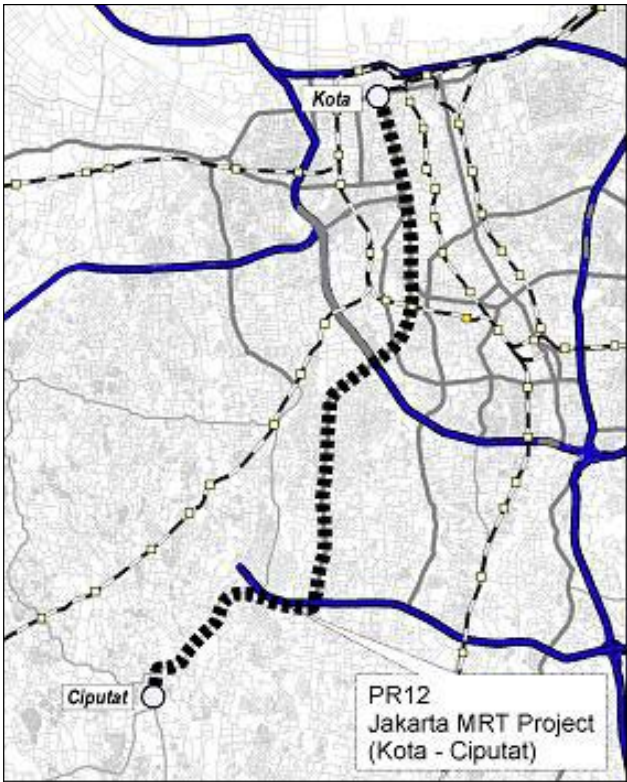
**PROPOSED PROJECT PROFILE**  
**for SITRAMP 2**  
**Prepared by the JICA Study Team, Jan. 2004**

<b>Project No.</b> PR-08	<b>Project Title</b> Serpong Line Double Tracking Between SRP and THB	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Serpong Line between Serpong and Tanah Abang Station (L=23.4 km)	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 3 years
<b>1. Summary of Objectives</b> - To provide direct sufficient and indispensable capacity for direct train operation between Serpong and Tanah Abang / as well as between Palmerah and Manggarai, Bekasi.		<b>2. Expected Benefits/Outputs</b> - To increase of the Passenger on this line - To develop the east Jabotabek Areas
<b>3. Project Description</b> - Double-double tracking - Electrical, Signaling and Communication System - Total Length: 23.4 km		<b>4. Project Linkages/Other Sector Linkages</b> - Short Cut Project on Serpong Line - Bekasi Double – Double Tracking
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 1,720.0 B</u> 1) New Construction: <u>Rp. 1,720.0 B</u> 2) Improvement of Existing Railway: <u>   0 bil. Rp.</u> For Annual Recurrent O & M: <u>   0 bil. Rp.</u>		<b>8. Special Considerations</b> - No consideration
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: B Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: B Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b> Refer to attached map





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

<b>Project No.</b> PR-12	<b>Project Title</b> Jakarta MRT Project (Kota and Ciputat)	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> New Guideway between Jakarta Kota and Ciputat	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input checked="" type="checkbox"/> Long-term	<b>Implementation Period</b> 4.5 years
<b>1. Summary of Objectives</b> - To relieve the heavy traffic congestion in the urban areas in Jakarta City		<b>2. Expected Benefits/Outputs</b> - To decrease traffic congestion on Jl. Sudirman and Jl. Thamrin
<b>3. Project Description</b> - New Guideway Corridor between Kota and Ciputat - Depot: Tanah Abang - Total Length: L=24.7 km		<b>4. Project Linkages/Other Sector Linkages</b> - Western Line Improvement Project between Karet and Manggarai
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 10,670.0 B</u> 1) New Construction: <u>Rp. 10,670.0 B</u> 2) Improvement of Existing Railway: <u>0</u> bil. Rp. For Annual Recurrent O & M: <u>0</u> bil. Rp.		<b>8. Special Considerations</b> - No consideration
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: B Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: B Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>  <p style="text-align: center;">PR12 Jakarta MRT Project (Kota - Ciputat)</p>

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

<b>Project No.</b> PR-14	<b>Project Title</b> Development of Railway Spare Parts Factory for Jabotabek Railway		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Manggarai Station	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 3.0 years	
<b>1. Summary of Objectives</b> - To improve the rolling stock availability rate to 85% from the present 75%		<b>2. Expected Benefits/Outputs</b> - Improvement of operation system - Improvement of service level	
<b>3. Project Description</b> - Inspection works in workshop - Materials / Equipment available in Indonesia - Specific Materials / Equipment that have to imported, shopped out or inspected		<b>4. Project Linkages/Other Sector Linkages</b> - None	
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications	
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 303.0 B</u> 1) New Construction: _____bil. Rp. 2) Improvement of Existing Facility: <u>Rp. 303.0 B</u> For Annual Recurrent O & M: _____0 bil. Rp.		<b>8. Special Considerations</b> - No consideration	
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	

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

<b>Project No.</b> PR-15	<b>Project Title</b> Training Program for Railway Electrical, Signaling and Telecommunication System		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Jabodetabek Railway Area	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 3.0 years	
<b>1. Summary of Objectives</b> - To conduct daily inspection of the existing equipment		<b>2. Expected Benefits/Outputs</b> - Improvement of service level -	
<b>3. Project Description</b> - 3 substations and 15 km length of overhead contact wires installation - 3 signal equipment buildings and 15 km length of various cables installation		<b>4. Project Linkages/Other Sector Linkages</b> - Not concerned	
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications	
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 240.0 B</u> 1) New Construction: _____ bil. Rp. 2) Improvement of Existing Railway: <u>Rp. 240.0 B</u> For Annual Recurrent O & M: _____ 0 bil. Rp.		<b>8. Special Considerations</b> - No consideration	
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	



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

<b>Project No.</b> PR-16	<b>Project Title</b> Improvement of Station Facility		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> The stations on Bogor line and Eastern line	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 4 years	
<b>1. Summary of Objectives</b> - To improve the existing railway facilities for better transport safety and service level		<b>2. Expected Benefits/Outputs</b> - Transport safety - Improvement of service level	
<b>3. Project Description</b> - Over-track Station, Pedestrian Deck, - Raising / Extension of Platform - Improvement of Platform and Track Layout		<b>4. Project Linkages/Other Sector Linkages</b> None	
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications	
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>    Rp. 93.0 B</u> 1) New Construction: <u>    0 bil. Rp.</u> 2) Improvement of Existing Railway: <u>    Rp. 93.0 B</u> For Annual Recurrent O & M: <u>    0 bil. Rp.</u>		<b>8. Special Considerations</b> - No consideration	
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: C Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: B Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	

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

<b>Project No.</b> PR-17	<b>Project Title</b> Purchase of Electric Train Cars for the Bogor Line		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Bogor line	<b>Project Priority</b> <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 6.0 years	
<b>1. Summary of Objectives</b> - To provide sufficient capacity for operation on Bogor Line.		<b>2. Expected Benefits/Outputs</b> - Improvement of service level - Increase of passengers	
<b>3. Project Description</b> - Purchase of Electric Car (Number of car=309 trains)		<b>4. Project Linkages/Other Sector Linkages</b> - None	
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications	
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 2,804.0 B</u> 1) New Construction: _____ bil. Rp. 2) Improvement of Existing Railway: <u>Rp. 2,804.0 B</u> For Annual Recurrent O & M: _____ 0 bil. Rp.		<b>8. Special Considerations</b> - None	
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	



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

<b>Project No.</b> PR-19	<b>Project Title</b> Station Square Development		<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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																																																																																																																																																																																									
<b>Project Location</b> The stations on Bogor Line, Central Line, Bekasi Line, Western Line		<b>Project Priority</b> <input type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input checked="" type="checkbox"/> Long-term	<b>Implementation Period</b> 6.0 years																																																																																																																																																																																									
<b>1. Summary of Objectives</b> - To extend station squares for effective use by transfer passengers of buses and other public transportation modes			<b>2. Expected Benefits/Outputs</b> - Improvement of transport service level - Increase of passengers																																																																																																																																																																																									
<b>3. Project Description</b> - Bogor Line (11 station squares) - Central Line (2 station squares) - Western Line (1 station square) - Tangerang Line (1 station square) - Serpong Line (4 station square) - Eastern Line (1 station square) - Bekasi Line (8 station squares)			<b>4. Project Linkages/Other Sector Linkages</b> - Improvement of road project by Jabodetabek and local government																																																																																																																																																																																									
<b>5. Important Assumptions/Conditions for the Project</b>			<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications																																																																																																																																																																																									
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 1,066.0 B</u> 1) New Construction: _____ bil. Rp. 2) Improvement of Existing Railway: <u>Rp. 1,066.0 B</u> For Annual Recurrent O & M: _____ 0 bil. Rp.			<b>8. Special Considerations</b> - None																																																																																																																																																																																									
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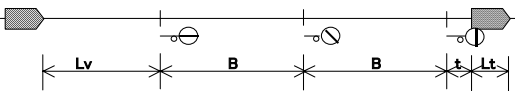
**PROPOSED PROJECT PROFILE  
for SITRAMP 2  
Prepared by the JICA Study Team, Jan. 2004**

<b>Project No.</b> PR-20	<b>Project Title</b> Installation of Train Radio System	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> Jabodetabek Railway Area	<b>Project Priority</b> <input type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input checked="" type="checkbox"/> Long-term	<b>Implementation Period</b> 5.0 years
<b>1. Summary of Objectives</b> - Most of communication lines are 15 years old, thus decline of the services will be liable to occur due to the obsolescence of the equipment.		<b>2. Expected Benefits/Outputs</b> - Improvement of transport service level - Improvement of safety
<b>3. Project Description</b> - Terminal station with radio set - New radio tower		<b>4. Project Linkages/Other Sector Linkages</b> - None
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 491.0 B</u> 1) New Construction: _____ bil. Rp. 2) Improvement of Existing Railway: <u>Rp. 491.0 B</u> For Annual Recurrent O & M: _____ 0 bil. Rp.		<b>8. Special Considerations</b> - None
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected	<b>10. Location Map/Information/Drawings</b>  <b>LEGEND:</b> — : CENTRAL & BEKASI LINE — : BOGOR LINE — : EASTERN LINE — : WESTERN LINE — : TANGERANG LINE — : SERPONG LINE  ● : TERMINAL STATION WITH RADIO SET ○ : STATION WITHOUT RADIO SET 📡 : EXISTING RADIO TOWER 📡 : NEW RADIO TOWER	

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

<b>Project No.</b> PR-21	<b>Project Title</b> Rehabilitation of Signaling / Telecommunication Facility	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> The stations on Bogor line and Eastern line	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 3.0 years
<b>1. Summary of Objectives</b> - To draw up countermeasure of Lighting for Signaling - To improve telecommunication facilities		<b>2. Expected Benefits/Outputs</b> - Improvement of transport service level
<b>3. Project Description</b> - Signaling Equipment, and Signaling Tool Box - Improvement of OPT Cable Laying		<b>4. Project Linkages/Other Sector Linkages</b> - None
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 178.0 B</u> 1) New Construction: <u>Rp. 178.0 B</u> 2) Improvement of Existing Railway: <u>0</u> bil. Rp. For Annual Recurrent O & M: <u>0</u> bil. Rp.		<b>8. Special Considerations</b> - None
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: B Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>

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

<b>Project No.</b> PR-22	<b>Project Title</b> Addition of Signaling Facility and Improvement/Addition of Substations	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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																												
<b>Project Location</b> The stations on Eastern Line and Western line	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 5.0 years																												
<b>1. Summary of Objectives</b> - To improve the existing railway facilities for better transport safety and service level		<b>2. Expected Benefits/Outputs</b> - Improvement of transport service - Improvement of service level																												
<b>3. Project Description</b> - Over-track Station, Pedestrian Deck, - Raising / Extension of Platform - Improvement of Platform and Track Layout		<b>4. Project Linkages/Other Sector Linkages</b> - None																												
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications																												
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 1,865.0 B</u> 1) New Construction: <u>Rp. 1,865.0 B</u> 2) Improvement of Existing Railway: <u>0 bil. Rp.</u> For Annual Recurrent O & M: <u>0 bil. Rp.</u>		<b>8. Special Considerations</b> - None																												
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**PROPOSED PROJECT PROFILE  
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<b>Project No.</b> PR-23	<b>Project Title</b> Installation Automatic Train Stop	<b>Sector</b> <input type="checkbox"/> Road <input checked="" type="checkbox"/> Railway <input 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
<b>Project Location</b> The stations on Bogor line, Bekasi line, West-Eastern line and Serpong Line	<b>Project Priority</b> <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b> 4.5 years
<b>1. Summary of Objectives</b> - To avoid the train accidents, new automatic train stop as ATS System will install on Jabodetabek railway.		<b>2. Expected Benefits/Outputs</b> - Avoiding train accidents
<b>3. Project Description</b> - Required Blok Signal (Bogor Line, Bekasi Line, West-Eastern Line and Serpong Line)		<b>4. Project Linkages/Other Sector Linkages</b> - None
<b>5. Important Assumptions/Conditions for the Project</b>		<b>6. Implementing Agency</b> Directorate General of Land Communications Ministry of Communications
<b>7. Estimated Investment Requirement (in 2003 prices)</b> For Project Implementation in Total: <u>Rp. 249.0 B</u> 1) New Construction: _____ bil. Rp. 2) Improvement of Existing Railway: <u>Rp. 249.0 B</u> For Annual Recurrent O & M: _____ 0 bil. Rp.		<b>8. Special Considerations</b> - None
<b>9. Environmental Impact</b> 1) Social Environment Resettlement necessity: C Change of economic activity patterns: C Change of social movement patterns: C Cultural Heritage: C Water right, fishing right: C Public health: C Construction wastes: C Risk for disaster/accident: C 2) Natural Environment Aesthetics: C River, underground water and erosion: C Flora and Fauna: C Meteorology: C 3) Pollution Air pollution: C Water pollution: C Soil contamination: C Noise and vibration: C Land depression: C Stench: C  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected	<b>10. Location Map/Information/Drawings</b>  <b>FOR ABSOLUTE SIGNAL INSTALLATION</b> <b>FOR AUTOMATIC BLOCK SIGNAL INSTALLATION</b>	

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

<b>Project No.</b> E-01	<b>Project Title</b> Enhancement of Vehicle Inspection and Maintenance Program		<b>Sector</b> <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input checked="" type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
<b>Project Location</b> JABODETABEK	<b>Project Priority</b> <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b>	
<b>1. Summary of Objectives</b> <ul style="list-style-type: none"> <li>- Correctly understand current emission levels of in-use vehicles</li> <li>- Support regular IM program</li> <li>- Reduce emission by cracking down on high emitters</li> </ul>		<b>2. Expected Benefits/Outputs</b> <ul style="list-style-type: none"> <li>- Avoid giving drivers' opportunities to soup up their vehicle engine intentionally</li> <li>- Keep same emission level as the standard</li> </ul>	
<b>3. Project Description</b> <ul style="list-style-type: none"> <li>- Enhance the current program by more staff and equipments, and secure same emission level as tested at IM program.</li> </ul>		<b>4. Project Linkages/Other Sector Linkages</b>	
<b>5. Important Assumptions/Conditions for the Project</b> <ul style="list-style-type: none"> <li>- Enough number of Technical staffs in each DLLAJ who can be in charge</li> </ul>		<b>6. Implementing Agency</b> DLLAJ, Police, BPLHD	
<b>7. Estimated Investment Requirement (in 2000 prices)</b> For Project Implementation in Total: <u>Rp. 14.0 B</u>		<b>8. Special Considerations</b> - None	
<b>9. Environmental Impact</b> D: No impact expected  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	

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

<b>Project No.</b> E-02	<b>Project Title</b> Promotion of Low Sulfur Diesel		<b>Sector</b> <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input checked="" type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
<b>Project Location</b> JABODETABEK		<b>Project Priority</b> <input type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input checked="" type="checkbox"/> Long-term	<b>Implementation Period</b>
<b>1. Summary of Objectives</b> - To reduce PM emission from diesel vehicles as well as SOx - To enable enforcement of automotive emission standards of EURO 3 onward		<b>2. Expected Benefits/Outputs</b> - Lower PM emission	
<b>3. Project Description</b> - Reduce sulfur contents in automotive diesel oil to decrease PM10 emission from diesel vehicles, and abate critically high PM10 concentration in ambient air		<b>4. Project Linkages/Other Sector Linkages</b> Migas, GAIKINDO, Ministry of Energy	
<b>5. Important Assumptions/Conditions for the Project</b> -		<b>6. Implementing Agency</b> PERTAMINA	
<b>7. Estimated Investment Requirement (in 2000 prices)</b> Annual Project Cost: <span style="float: right;">Rp. 1,900.0 B</span> (For Annual consumption (3 bil. liters) of Low Sulfur (500ppm) Diesel)		<b>8. Special Considerations</b> - None	
<b>9. Environmental Impact</b> 1) Pollution Air pollution: B Water pollution: C Soil contamination: C  2) Others D: No impact expected  A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	

**PROPOSED PROJECT PROFILE**  
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<b>Project No.</b> E-03	<b>Project Title</b> Promotion of Bio-fuel		<b>Sector</b> <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input checked="" type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
<b>Project Location</b> JABODETABEK	<b>Project Priority</b> <input type="checkbox"/> Short-term <input checked="" type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b>	
<b>1. Summary of Objectives</b> <ul style="list-style-type: none"> <li>- To reduce air pollutant emissions, especially PM, significantly from diesel vehicles</li> <li>- To reduce CO2 emission in petroleum diesel oil combustion</li> </ul>		<b>2. Expected Benefits/Outputs</b> <ul style="list-style-type: none"> <li>- Lower PM emission</li> <li>- CO2 emission reduction</li> </ul>	
<b>3. Project Description</b> <ul style="list-style-type: none"> <li>- Reduce fossil oil consumption and CO2 by alternative vegetable-based, carbon neutral, oil as automotive fuel and abate air pollutants emission like PM10</li> </ul>		<b>4. Project Linkages/Other Sector Linkages</b> Ministry of Environment, Ministry of Energy, Ministry of Agriculture	
<b>5. Important Assumptions/Conditions for the Project</b> <ul style="list-style-type: none"> <li>- Phase-out of subsidies in petroleum diesel</li> </ul>		<b>6. Implementing Organization</b> Bio-diesel companies	
<b>7. Estimated Investment Requirement (in 2000 prices)</b> For Project Implementation in Total: <u>Rp. 150.0 B</u> (For 5% (mixing ratio) of Annual consumption (3 bil. liters) of Diesel)		<b>8. Special Considerations</b> <ul style="list-style-type: none"> <li>- None</li> </ul>	
<b>9. Environmental Impact</b> 1) Pollution Water pollution: B Soil contamination: B Noise and vibration: C <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	

**PROPOSED PROJECT PROFILE**  
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<b>Project No.</b> E-04	<b>Project Title</b> Driver Education Program on Driving Manner		<b>Sector</b> <input type="checkbox"/> Road <input type="checkbox"/> Railway <input type="checkbox"/> Bus <input type="checkbox"/> Traffic Management <input type="checkbox"/> Safety and Security <input checked="" type="checkbox"/> Environment <input type="checkbox"/> City Planning <input type="checkbox"/> Institution/Funding
<b>Project Location</b> JABODETABEK	<b>Project Priority</b> <input checked="" type="checkbox"/> Short-term <input type="checkbox"/> Medium-term <input type="checkbox"/> Long-term	<b>Implementation Period</b>	
<b>1. Summary of Objectives</b> - To reduce air pollutant emissions - To reduce noise level		<b>2. Expected Benefits/Outputs</b> - Lower emission level - Lower noise level	
<b>3. Project Description</b> - Provide additional driving training for environmental education		<b>4. Project Linkages/Other Sector Linkages</b> Ministry of Environment, Police	
<b>5. Important Assumptions/Conditions for the Project</b> -		<b>6. Implementing Agency</b> Police, DLLAJ	
<b>7. Estimated Investment Requirement (in 2000 prices)</b> For Project Implementation in Total: <u>Rp. 10.0 B</u>		<b>8. Special Considerations</b> - None	
<b>9. Environmental Impact</b>  D: No impact expected <hr/> A: Serious impact expected B: Impact expected C: Unknown (further study necessary) D: No impact expected		<b>10. Location Map/Information/Drawings</b>	