

**PROJECT FOR COMPREHENSIVE
URBAN TRANSPORT PLAN OF THE
GREATER YANGON (YUTRA)**

**FINAL REPORT
PROJECT PROFILE**

December 2014

ALMEC Corporation
Oriental Consultants Co., Ltd
Nippon Koei Co., Ltd

The exchange rate used in the report is:

US\$ 1.00 = MMK 1,000.00

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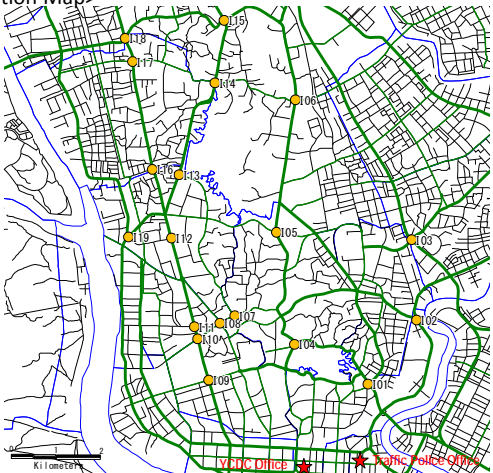



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PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-1	Road	Construction of New Thaketa Bridge		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		38 months	App. USD 28 mil. * subject to change due to the on-going design works	Urgent
8) Background/Current Issues				
<ul style="list-style-type: none"> - Serious traffic jam at existing Thaketa Bridge - Existing Thaketa Bridge is deteriorated, especially steel girder of bascule bridge section - Traffic demands will increase by development in Thanlyin TS and Thilawa SEZ - Basic Design is on-going under JICA scheme 				
9) Project Outline				
<ul style="list-style-type: none"> - To construct a new bridge (4lanes) beside existing bridge (2 lanes) - Bridge type of river crossing is PC Extradosed bridge and PC Box girder bridge (Total 253m) - To widen the access road to total 4 lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside Yangon city developed area - To improve accessibility from central Yangon To Thanlyin TS 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
Already requested as Japanese ODA grant aid			<ul style="list-style-type: none"> - Road improvement project in Yangon urban area - Bago river bridge construction project 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
<ul style="list-style-type: none"> a) Preparatory Survey (Basic Design): 8 months (Already started) b) Detailed Design, Tender Document Preparation: 6months c) Tendering: 3 months d) Construction: 21 months e) Commencement of Service: mid of 2017 			<ul style="list-style-type: none"> - Direct construction cost of bridge: USD 140 mil. - Direct cost of approach road: USD 35 mil. - Other expenses: USD 105 mil. 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
User of existing Thaketa Bridge (especially car user)			Some impacts to both social environment due to land acquisition and few civil works.	
17) Project Area		18) Location Map/Site Photo		
Existing Thaketa Bridge and approach section		<p data-bbox="421 1352 580 1375">< Location Map ></p>  <p data-bbox="437 2119 679 2139">Source: YUTRA Project Team</p>		


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-2, RD-4	Road	Installation of Advanced Traffic Management System (ATMS) Phase 1&2		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
YCDC and Traffic Police		Phase1: 38 months Phase2: 38 months	Phase1: App. USD 15 mil. Phase2: App.USD 15 mil.	Phase1: Urgent Phase2: Short
8) Background/Current Issues				
<ul style="list-style-type: none"> - Serious traffic jam at intersections along the major north-south roads toward CBD - Existing traffic signal system is still conventional type with "fixed" cycle-time. - Manual changing of cycle-time for daily/hourly fluctuations of traffic volume - No periodical/cumulative collection of traffic volume data 				
9) Project Outline				
<ul style="list-style-type: none"> - To install advanced traffic signal systems at tentatively 20 bottleneck intersections with "flexible" cycle-time based on real-time traffic data - To install traffic surveyance system such as Ultra Sonic Detector - To introduce traffic information system such as Variable Message Signs (VMS) - Construction of Traffic Control Center (TCC) to control the traffic control devices 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - Capacity enhancement of existing infrastructure (intersections) prior to Middle/Long-term measues - To facilitate traffic congestion inside the city - To supply cumurative traffic volume data for future city/transport planning 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
- expected for partial operation in 2015			none	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
Phase1, Phase 2 a) Preparatory Survey (Basic Design): 7 months b) Detailed Design, Tender Document Preparation: 4 months c) Tendering: 3 months d) Construction, Procurement, Installation, Commissioning: 24 months Commencement of Service: Phase1 April 2017, Phase2 Dec 2020			Phase 1: - Signal, CCTV Detector etc. USD 8 mil. - Data cimunication system: USD 1.5 mil. - Control center: USD 5.5 mil. Phase2: - Signal, CCTV Detector etc. USD 8 mil. - Data cimunication system: USD 1.5 mil. - Control center (additional): USD 1.5 mil. - BRT System: USD 4.0 mil.	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
All Yangon citizen (especially car user)			Few impacts to both natural and social environment due to less or none land acquisition and few civil works.	
17) Project Area	18) Location Map/Site Photo			
Major bottleneck intersections in Yangon City	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>< Location Map ></p>  <p>< Image of after completion ></p>  <p>Source: YUTRA Project Team</p> </div> <div style="width: 45%;"> <p>< Current Condition ></p>  <p>(traffic jam at intersection)</p>  <p>(current monitoring system)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Network Signal Network Controlled Signal System Signal Cycle is changed by traffic condition data from Detectors</p> <p>CCTV Detector Detecting Traffic Volume, Congestion, Queue and Occupancy -Motion Picture Analysis Based-</p> <p>Sonic Detector Detecting Traffic Volume, Congestion, Queue and Occupancy Additional Detector for detecting State of Queue length</p> </div> </div> </div>			

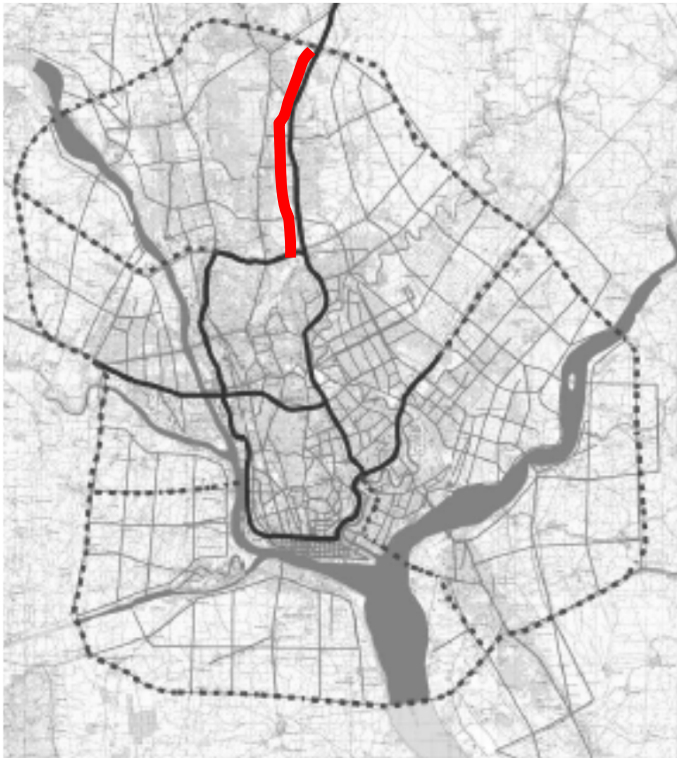
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-3	Road	Formulation of ITS Master Plan and ITS Implementation Program		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
YCDC ,Traffic Police, Yangon Region, other related agencies		Master Plan: 12months Implementation: 48 months	Master Plan: App. USD 1.5 mil. Implementation: App. USD 53.5 mil.	Master plan: Urgent Implementation: Short to Long
8) Background/Current Issues				
<ul style="list-style-type: none"> - Serious traffic jam along the major roads due to recent rapid increase of vehicles - Several ITS facilities (traffic signal, CCTV, IC card, ETC, etc) was introduced in Yangon but these are not integrated each other and synergic effects have not been accomplished. - No standard for ITS - No concrete future plan of ITS 				
9) Project Outline				
<ul style="list-style-type: none"> - To clarify existing ITS facilities and administrative functions of related authorities - To clarify effective ITS menus for sustainable development of Yangon City - To establish overall ITS Master Plan proposing short/middle/long-term projects - To install facilities of ITS according to Master Plan 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To facilitate traffic congestion - Synergic effects of ITS facilities - Reduction of traffic accidents - To improve environmental pollution - To obtain real-time cumulative traffic information 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
<ul style="list-style-type: none"> - Project for Traffic Management and Traffic safety by utilizing ITS at Yangon-Mandalay Expressway (From PW) 			Yangon Urban Expressway Project	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Preparatory Survey: 2014 b) ITS Master Plan Study: 2014 to 2015			<ul style="list-style-type: none"> - ITS Master Plan: USD 1.5 mil. - Traffic surveillance system and ETC: USD 45 mil. - Traffic control center: USD 5.0 mil. - Heavy traffic control system: USD 3.5 mil. 	
<ul style="list-style-type: none"> - Interview with all ITS related agency - Field survey - Formulation of ITS Master Plan - Implementation Planning of ITS Projects by stage-wise 				
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
All Yangon citizen (especially car user)			None	
17) Project Area	18) Location Map/Site Photo			
Yangon City	<p align="center">< Example of ITS Menu ></p> <p align="center">Source: YUTRA Project Team</p>			


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-5	Road	Arterial Road of Outer Ring Road along Road No.7		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 140 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Urban development along Road No.7 such as Helgu New Town Core, East Dagon New Town Core. - New Industrial Zone will be developed along Road No.7. - Thilawa SEZ will be opened in 2015 and heavy traffic to/from SEZ to/from Yangon - Mandalay Expressway will increase. 				
9) Project Outline				
Arterial Road of Outer Ring Road along Road No.7 - To construct 18 km length of the arterial roads with total 4 (2+2) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from Thilawa - To enhance urban development of Eastern suburban area of Yangon region - To cater for productivity increase of industrial estates 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
Already planned by MOC			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2019			- Road: USD 200 / m2 - Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 3500 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less	
17) Project Area		18) Location Map/Site Photo		
along Road No.7		< Location Map >  <p align="right">Source: YUTRA Project Team</p>		

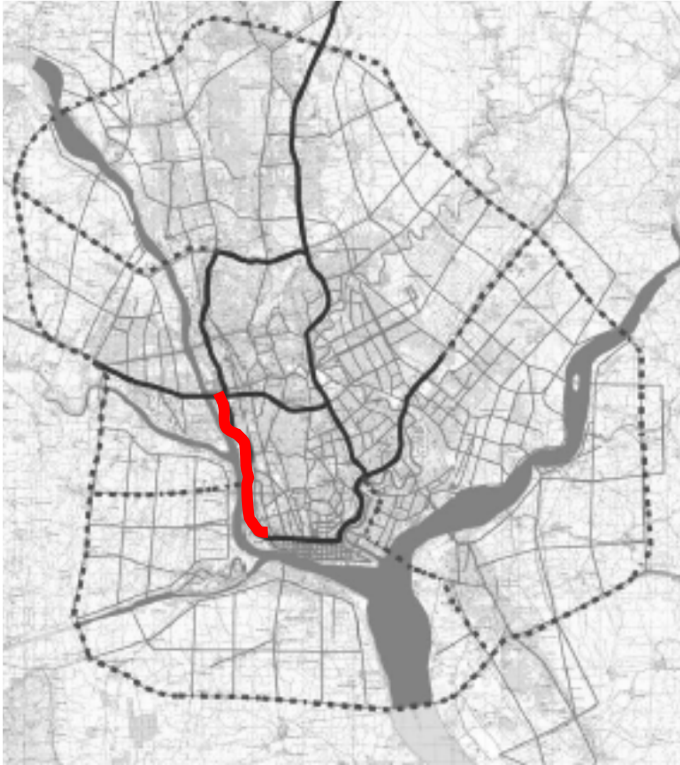
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-6	Road	Construction of Yangon Urban Expressway North Radial Section		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 252 mil.	Middle
8) Background/Current Issues - Urban development northern area of Yangon City - New town core and Industrial Zone will be developed northern area - Yangon - Mandalay Expressway is not connected Yangon urban area				
9) Project Outline Section along Road No.2 to strengthen logistic network by extension from Yangon-Naypyitaw Expressway - To construct 17 km length of the expressway with 4 (2+2) lanes - To construct 17 km length of the arterial roads along the expressway with total 4 (2+2) lanes				
10) Expected Project Effect - To reduce traffic congestion inside the city providing a diversion route from existing highway - To enhance urban development of northern suburban area of Yangon region - To cater for productivity increase of industrial estates				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
13) Implementing Schedule a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2019			14) Rough Breakdown of Preliminary Project Cost - Elevated road: USD 1800 / m2 - Improvement: existing road: USD 200 / m2	
15) Beneficiaries - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers			16) Impact to Environment (Natural/Social) Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
along Road No.2		< Location Map > 		
Source: YUTRA Project Team				


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-7	Road	Construction of Yangon Urban Expressway Inner Ring Section (Phase 1)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 620 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing inner ring road is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon - Mandalay Expressway is not connected Yangon urban area 				
9) Project Outline				
<p>Inner Ring Elevated Expressway of north-south route on Waiza Yan Thar Rd</p> <ul style="list-style-type: none"> - To construct 15 km length of the expressway with 4 (2+2) lanes - To construct 15 km length of the arterial roads along the expressway with total 6 (3+3) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing highway - To enhance urban development of northern and eastern area of Yangon region - To improve environmental situation in Yangon urban area 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
<ul style="list-style-type: none"> a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: mid 2021 			<ul style="list-style-type: none"> - Elevated road: USD 1800 / m² - Improvement: existing road: USD 200 / m² 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Residents along existing road - Industrial Estates - Urban Developers 			Resettlement of residents will be less.	
17) Project Area		18) Location Map/Site Photo		
along Waiza Yan Thar Rd		<p align="center">< Location Map ></p>  <p align="center">Source: YUTRA Project Team</p>		

PROJECT SUMMARY SHEET

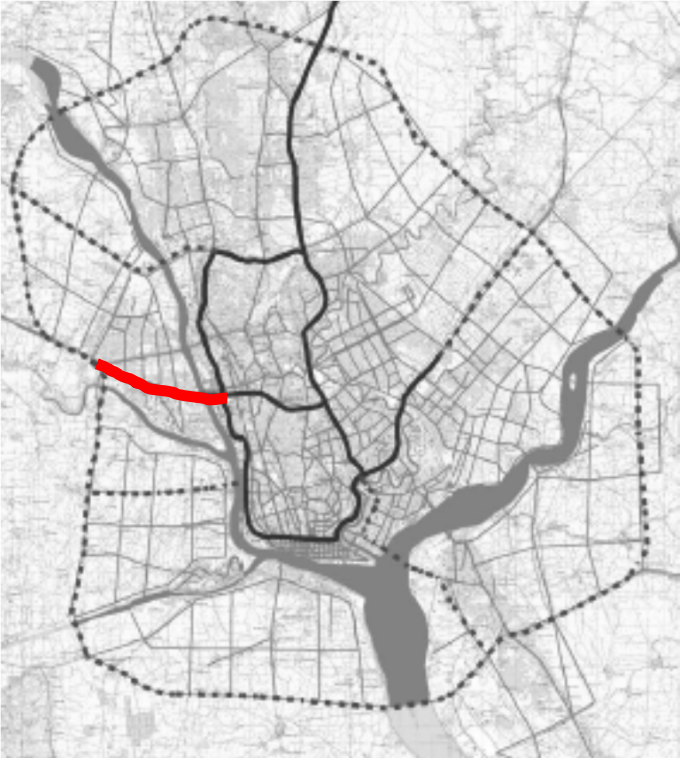
No.	1) Sector	2) Project Title		3) Project Type
RD-8	Road	Construction of Yangon Urban Expressway Inner Ring Section (Phase 2)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 315 mil.	Middle
8) Background/Current Issues - Existing inner ring road is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon - Mandalay Expressway is not connected Yangon urban area				
9) Project Outline Inner Ring Elevated Expressway of north-south route on Kyee Myindaing Kanner Rd - To construct 7.5 km length of the expressway with 4 (2+2) lanes - To construct 7.5 km length of the arterial roads along the expressway with total 6 (3+3) lanes				
10) Expected Project Effect - To reduce traffic congestion inside the city providing a diversion route from existing highway - To enhance urban development of northern and eastern area of Yangon region - To improve environmental situation in Yangon urban area				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
13) Implementing Schedule a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2023			14) Rough Breakdown of Preliminary Project Cost - Elevated road: USD 1800 / m2 - Improvement: existing road: USD 200 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
- All Yangon citizen (especially car user) - Residents along existing road - Industrial Estates - Urban Developers			Resettlement of residents will be less.	
17) Project Area		18) Location Map/Site Photo		
along Kyee Myindaing Kanner Rd		< Location Map > 		
Source: YUTRA Project Team				

PROJECT SUMMARY SHEET


No.	1) Sector	2) Project Title		3) Project Type
RD-9	Road	Construction of Yangon Urban Expressway East Radial Section		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 403 mil.	Middle
8) Background/Current Issues - Urban development eastern area of Yangon City - New town core and Industrial Zone will be developed eastern area - Yangon - Mandalay Expressway is not connected Yangon urban area				
9) Project Outline Connection between YUEX (Inner Ring) and YORR along Road No.2 - To construct 9.5 km length of the expressway with 4 (2+2) lanes - To construct 9.5 km length of the arterial roads along the expressway with total 6 (3+3) lanes				
10) Expected Project Effect - To reduce traffic congestion inside the city providing a diversion route from existing highway - To enhance urban development of eastern suburban area of Yangon region - To cater for productivity increase of industrial estates				
11) Needs/Request from Myanmar side			12) Relation with Other Projects - Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2025			14) Rough Breakdown of Preliminary Project Cost - Elevated road: USD 1800 / m2 - Improvement: existing road: USD 200 / m2	
15) Beneficiaries - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers			16) Impact to Environment (Natural/Social) Resettlement of residents will be less or none.	
17) Project Area along Road No.2		18) Location Map/Site Photo < Location Map > 		

Source: YUTRA Project Team

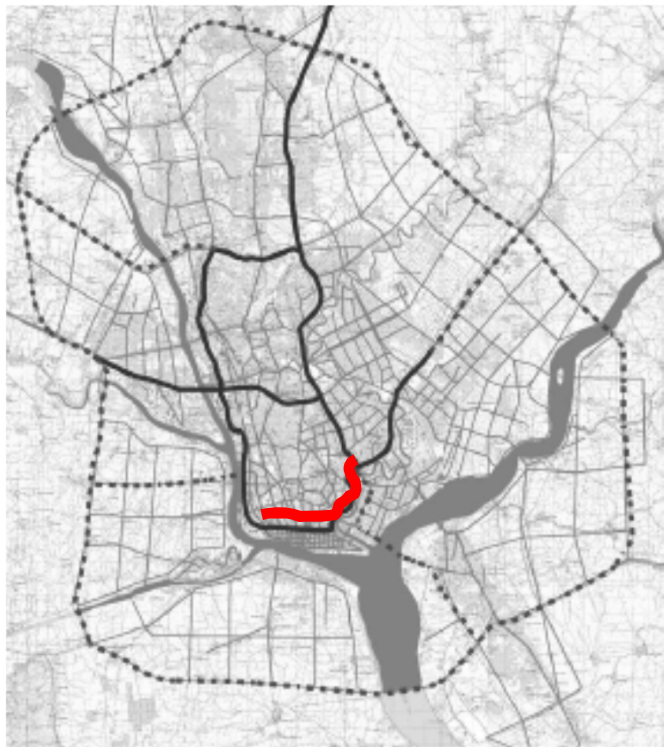
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-10	Road	Construction of Yangon Urban Expressway West Radial Section		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 368 mil.	Long
8) Background/Current Issues				
<ul style="list-style-type: none"> - Urban development western area of Yangon City - New Industrial Zone will be developed western area - National transport to/from Ayeeyarwady to/from Yangon will be increased 				
9) Project Outline				
Elevated expressway along Road No.5 connecting between YUEX and YORR <ul style="list-style-type: none"> - To construct 9.0 km length of the expressway with 4 (2+2) lanes - To construct 9.0 km length of the arterial roads along the expressway with total 6 (3+3) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing highway - To enhance urban development of western suburban area of Yangon region - To cater for productivity increase of industrial estates 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2028			<ul style="list-style-type: none"> - Elevated road: USD 1800 / m2 - Long span bridge: USD 3500 /m2 - Improvement: existing road: USD 200 / m2 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
along Road No.5		< Location Map > 		
Source: YUTRA Project Team				

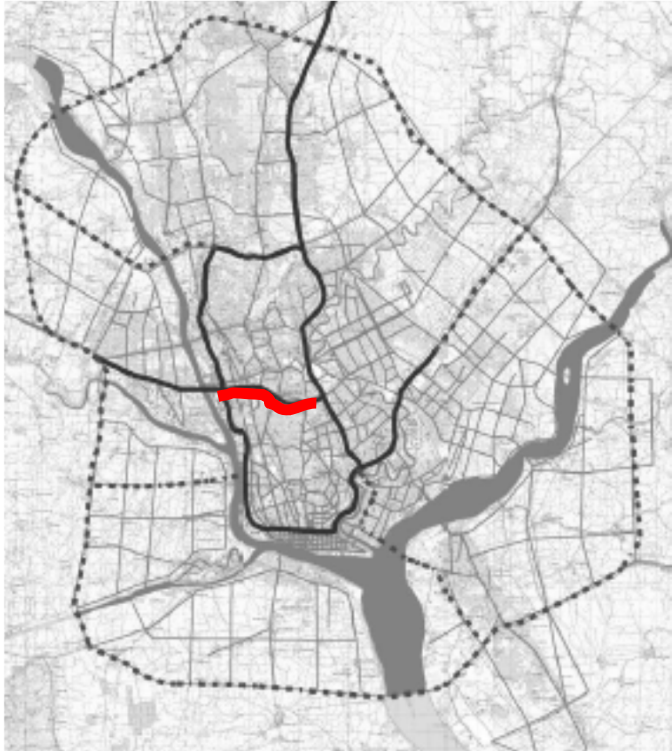
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-11	Road	Construction of Yangon Urban Expressway Inner Ring Section (Phase 3)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 591 mil.	Long
8) Background/Current Issues - Existing inner ring road is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon - Mandalay Expressway is not connected Yangon urban area				
9) Project Outline Inner Ring Elevated Expressway on the major arterial roads (Byintnaung Rd-Khayae Pin Rd) - To construct 14.5 km length of the expressway with 4 (2+2) lanes - To construct 14.5 km length of the arterial roads along the expressway with total 6 (3+3) lanes				
10) Expected Project Effect - To reduce traffic congestion inside the city providing a diversion route from existing highway - To enhance urban development of northern and western area of Yangon region - To improve environmental situation in Yangon urban area				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
13) Implementing Schedule a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2031			14) Rough Breakdown of Preliminary Project Cost - Elevated road: USD 1800 / m2 - Improvement: existing road: USD 200 / m2	
15) Beneficiaries - All Yangon citizen (especially car user) - Residents along existing road - Industrial Estates - Urban Developers			16) Impact to Environment (Natural/Social) Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
along Byintnaung Rd-Khayae Pin Rd		< Location Map >  <p align="center">Source: YUTRA Project Team</p>		


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-12	Road	Construction of Yangon Urban Expressway Inner Ring Section (Phase 4)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 434 mil.	Long
8) Background/Current Issues - Existing inner ring road is very congested, especially in CBD area - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon - Mandalay Expressway is not connected Yangon urban area				
9) Project Outline - Elevated expressway along Bo Gyoke Rd - To construct 11 km length of the expressway with 4 (2+2) lanes - To construct 11 km length of the arterial roads along the expressway with total 6 (3+3) lanes				
10) Expected Project Effect - To reduce traffic congestion inside the city providing a diversion route from existing highway - To improve environmental situation in Yangon urban area				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
13) Implementing Schedule a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2035			14) Rough Breakdown of Preliminary Project Cost - Elevated road: USD 1800 / m2 - Improvement: existing road: USD 200 / m2	
15) Beneficiaries - All Yangon citizen (especially car user) - Residents along existing road - Industrial Estates - Urban Developers			16) Impact to Environment (Natural/Social) Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
along Bo Gyoke Rd		< Location Map >  <p align="center">Source: YUTRA Project Team</p>		

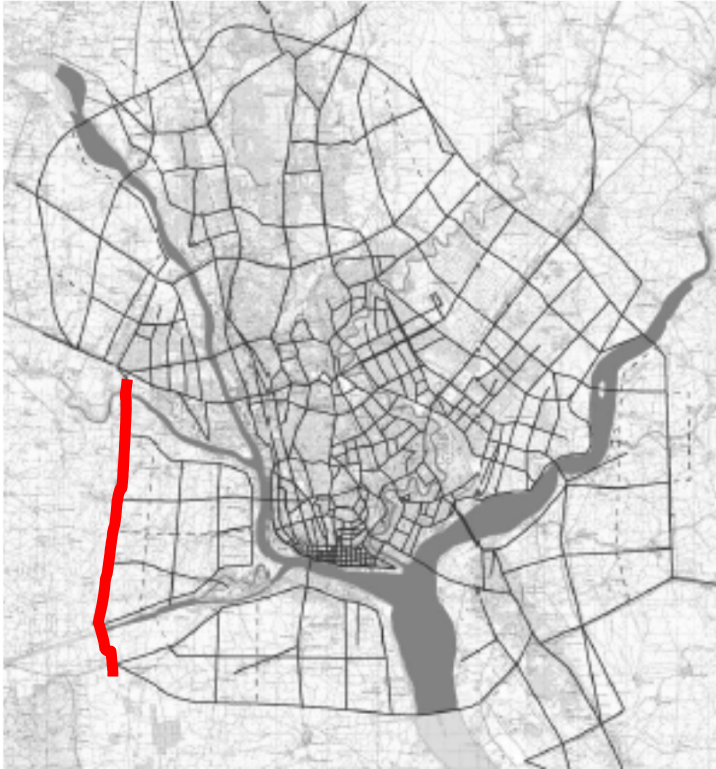
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-13	Road	Construction of Yangon Urban Expressway East-West Link		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 307 mil.	Long
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing inner ring road is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon - Mandalay Expressway is not connected Yangon urban area 				
9) Project Outline				
East-West connection route inside YUEX Ring Road on Parami Rd <ul style="list-style-type: none"> - To construct 6.7 km length of the expressway with 4 (2+2) lanes - To construct 6.7 km length of the arterial roads along the expressway with total 6 (3+3) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing highway - To improve environmental situation in Yangon urban area 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2035			<ul style="list-style-type: none"> - Elevated road: USD 1800 / m2 - Improvement: existing road: USD 200 / m2 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Residents along existing road - Industrial Estates - Urban Developers 			Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
along Parami Rd		< Location Map > 		
Source: YUTRA Project Team				


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-14	Road	Arterial Road of Outer Ring Road Thanlyin TS Section		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 320 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Urban development around Thanlyin TS such as Thanlyin New Town Core, East Dagon New Town Core. - New Industrial Zone will be developed in suburban area. - Thilawa SEZ will be opened in 2015 and heavy traffic to/from SEZ to/from Yangon - Mandalay Expressway will increase. 				
9) Project Outline				
Arterial Road of Outer Ring Road in Thanlyin Township connecting with Thilawa Area - To construct 37 km length of the arterial roads with total 4 (2+2) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from Thilawa - To enhance urban development of eastern and southern suburban area of Yangon region - To cater for productivity increase of industrial estates 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
Already planned by MOC			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2031			<ul style="list-style-type: none"> - Road: USD 200 / m² - Middle Span Bridge: USD 1800 / m² - Long Span Bridge: USD 3500 / m² 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less	
17) Project Area		18) Location Map/Site Photo		
in Thanlyin TS		< Location Map > 		
Source: YUTRA Project Team				


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-15	Road	Arterial Road of Outer Ring Road Twantay Section		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 103 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Urban development around Twantay area such as Hlaing Tharya Sub-center, Twantay New Town Core - New Industrial Zone will be developed in suburban area. 				
9) Project Outline				
Arterial Road of Outer Ring Road in Twantay Section - To construct 14 km length of the arterial roads with total 4 (2+2) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing road - To enhance urban development of western and southern suburban area of Yangon region - To cater for productivity increase of industrial estates 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
Already planned by MOC			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2022			- Road: USD 200 / m2 - Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 3500 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less	
17) Project Area		18) Location Map/Site Photo		
in Twantay area		< Location Map >  <p align="center">Source: YUTRA Project Team</p>		


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-16	Road	Arterial Road of Outer Ring Road Hmawbi-Hlaingthayar Section		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 309 mil.	Long
8) Background/Current Issues - Urban development Hmawbi-Hlaingthayar area such as Hlaing Tharya Sub-center, Hantabin and Hmawbi New Town Core - New Industrial Zone will be developed in suburban area.				
9) Project Outline Arterial Road of Outer Ring Road Hmawbi-Hlaingthayar Section - To construct 40 km length of the arterial roads with total 4 (2+2) lanes				
10) Expected Project Effect - To reduce traffic congestion inside the city providing a diversion route from existing road - To enhance urban development of western and southern suburban area of Yangon region - To cater for productivity increase of industrial estates				
11) Needs/Request from Myanmar side Already planned by MOC			12) Relation with Other Projects - Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2029			14) Rough Breakdown of Preliminary Project Cost - Road: USD 200 / m2 - Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 3500 / m2	
15) Beneficiaries - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers			16) Impact to Environment (Natural/Social) Resettlement of residents will be less	
17) Project Area Hmawbi-Hlaingthayar area		18) Location Map/Site Photo < Location Map >  <p align="center">Source: YUTRA Project Team</p>		


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-18	Road	Construction of Arterial Roads based on the Proposed Network by YUTRA (Short Term)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		56 months	App. USD 105 mil.	Short
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing roads in Yangon area is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon urban area will be developed to be decentralized 				
9) Project Outline				
Major Arterial Road based on Network Plan by YUTRA - To construct 35 km length of the arterial roads with total 4 (2+2) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing roads - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 6 months b) Detailed Design, Tender Document Preparation: 8 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 36 months e) Commencement of Service: end 2018			- Road: USD 200 / m2 - Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 3500 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developpers 			Resettlement of residents will be required	
17) Project Area		18) Location Map/Site Photo		
Yangon developing area		< Location Map > 		
Source: YUTRA Project Team				


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-19	Road	Construction of Arterial Roads based on the Proposed Network by YUTRA (Middle Term)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 467 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing roads in Yangon area is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon urban area will be developed to be decentralized 				
9) Project Outline				
<p>Major Arterial Road based on Network Plan by YUTRA</p> <ul style="list-style-type: none"> - To construct 90 km length of the arterial roads with total 4 (2+2) lanes - To construct Bago River Mouth Bridge 2.5 km length of the long span bridge with total 4 (2+2) lanes - To construct Twantay Bridge 1.0 km length of the long span bridge with total 4 (2+2) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing roads - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
<ul style="list-style-type: none"> a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2021 			<ul style="list-style-type: none"> - Road: USD 200 / m2 - Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 3500 / m2 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be required	
17) Project Area		18) Location Map/Site Photo		
Yangon developing area		<p align="center">< Location Map ></p>  <p align="center">Source: YUTRA Project Team</p>		

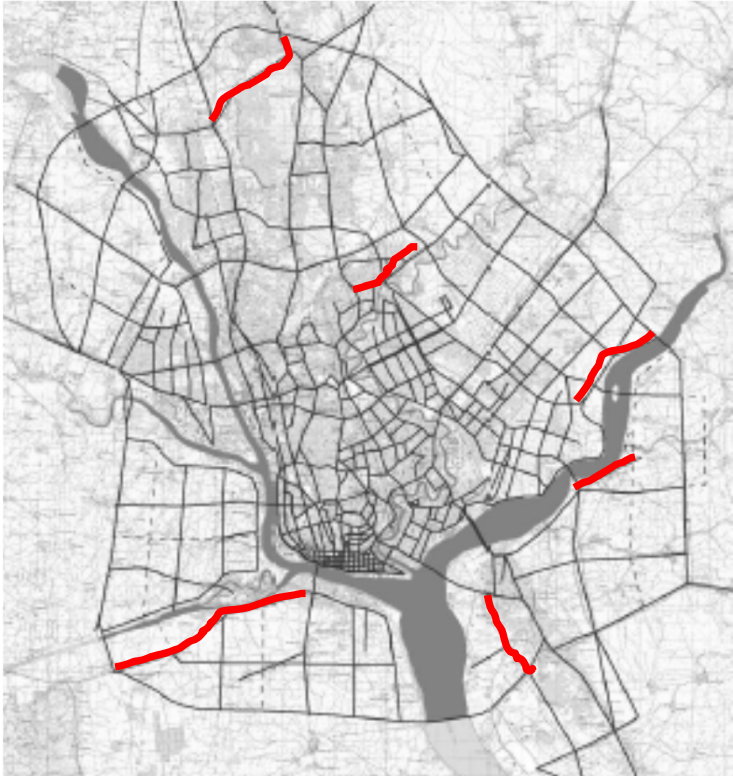
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-20	Road	Construction of Arterial Roads based on the Proposed Network by YUTRA (Long Term)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		56 months	App. USD 210 mil.	Long
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing roads in Yangon area is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon urban area will be developed to be decentralized 				
9) Project Outline				
Major Arterial Road based on Network Plan by YUTRA - To construct 70 km length of the arterial roads with total 4 (2+2) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city providing a diversion route from existing roads - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 6 months b) Detailed Design, Tender Document Preparation: 8 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 36 months e) Commencement of Service: mid 2028			- Road: USD 200 / m2 - Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 3500 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developpers 			Resettlement of residents will be required	
17) Project Area		18) Location Map/Site Photo		
Yangon developing area		< Location Map >  <p align="center">Source: YUTRA Project Team</p>		

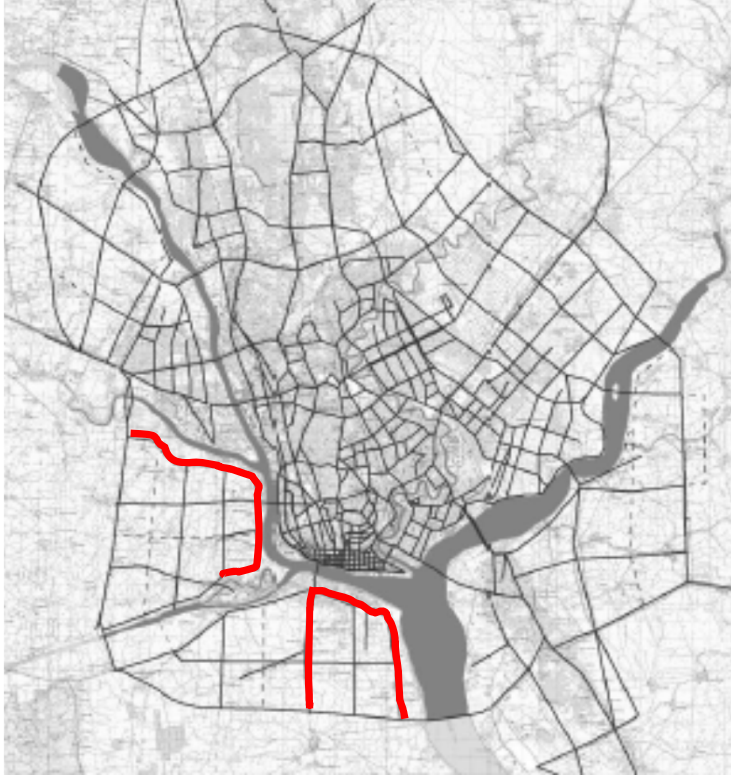
PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-21	Road	Improvement of Arterial Roads based on the Proposed Network by YUTRA (Short Term)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		56 months	App. USD 120 mil.	Short
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing roads in Yangon area is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon urban area will be developed to be decentralized 				
9) Project Outline				
Major Arterial Road based on Network Plan by YUTRA <ul style="list-style-type: none"> - To widen 80 km length of the arterial roads with additional 2 (1+1) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city by improvement road capacity of existing road - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 6 months b) Detailed Design, Tender Document Preparation: 8 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 36 months e) Commencement of Service: mid 2018			<ul style="list-style-type: none"> - Road: USD 200 / m2 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
Yangon developing area		< Location Map >  <p align="center">Source: YUTRA Project Team</p>		


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-22	Road	Improvement of Arterial Roads based on the Proposed Network by YUTRA (Middle Term)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		56 months	App. USD 90 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing roads in Yangon area is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon urban area will be developed to be decentralized 				
9) Project Outline				
<p>Major Arterial Road based on Network Plan by YUTRA</p> <ul style="list-style-type: none"> - To widen 60 km length of the arterial roads with additional 2 (1+1) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city by improvement road capacity of existing road - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			<ul style="list-style-type: none"> - Road construction and improvement projects proposed by YUTRA 	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
<ul style="list-style-type: none"> a) Feasibility Study: 6 months b) Detailed Design, Tender Document Preparation: 8 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 36 months e) Commencement of Service: mid 2021 			<ul style="list-style-type: none"> - Road: USD 200 / m2 	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
Yangon developing area		<p align="center">< Location Map ></p>  <p align="center">Source: YUTRA Project Team</p>		


PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-23	Road	Improvement of Arterial Roads based on the Proposed Network by YUTRA (Long Term)		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		56 months	App. USD 53 mil.	Long
8) Background/Current Issues				
<ul style="list-style-type: none"> - Existing roads in Yangon area is very congested - Future traffic demand in Yangon urban area is forecasted to increase highly - Yangon urban area will be developed to be decentralized 				
9) Project Outline				
Major Arterial Road based on Network Plan by YUTRA - To widen 35 km length of the arterial roads with additional 2 (1+1) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city by improvement road capacity of existing road - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 6 months b) Detailed Design, Tender Document Preparation: 8 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 36 months e) Commencement of Service: mid 2028			- Road: USD 200 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be less or none.	
17) Project Area		18) Location Map/Site Photo		
Yangon developing area		< Location Map >  <p align="center">Source: YUTRA Project Team</p>		

PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-24	Road	Construction of Bago River Bridge		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 220 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Urban development in Thanlyin TS such as Thilawa sub-center, Thanlyin New town core - Existing Thanlyin Bridge is limited to pass heavy vehicles. - Thilawa SEZ will be open in 2015 and heavy traffic (logistic and commuter) to/from SEZ will pass inside the city. - Future traffic demand in Yangon urban area is forecasted to increase highly 				
9) Project Outline				
Major Arterial Road based on Network Plan by YUTRA - To construct 1.9 km length of the long span bridge with total 4 (2+2) lanes				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To reduce traffic congestion inside the city by improvement road capacity of existing road - To enhance urban development of Yangon urban area - To improve environmental situation in Yangon City. 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2020			- Middle Span Bridge: USD 1800 / m2 - Long Span Bridge: USD 5000 / m2	
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developpers 			Resettlement of residents will be less	
17) Project Area		18) Location Map/Site Photo		
beside of existing Thanlyin Bridge		< Location Map > 		
Source: YUTRA Project Team				

PROJECT SUMMARY SHEET

No.	1) Sector	2) Project Title		3) Project Type
RD-25	Road	Construction of Dala Bridge		
4) Implementing Agency		5) Implementing Period	6) Preliminary Project Cost	7) Term
Ministry of Construction		70 months	App. USD 177 mil.	Middle
8) Background/Current Issues				
<ul style="list-style-type: none"> - Urban development in Dala area such as Dala new town core - Future traffic demand in Yangon urban area is forecasted to increase highly 				
9) Project Outline				
<p>Major Arterial Road based on Network Plan by YUTRA</p> <ul style="list-style-type: none"> - To construct 1.8 km length of the long span bridge with total 4 (2+2) lanes 				
10) Expected Project Effect				
<ul style="list-style-type: none"> - To enhance urban development of Dala area - To cater for productivity increase of industrial estates 				
11) Needs/Request from Myanmar side			12) Relation with Other Projects	
Already planned by MOC			- Road construction and improvement projects proposed by YUTRA	
13) Implementing Schedule			14) Rough Breakdown of Preliminary Project Cost	
<ul style="list-style-type: none"> a) Feasibility Study: 12 months b) Detailed Design, Tender Document Preparation: 12 months c) Tendering: 6 months d) Construction, Procurement, Installation, Commissioning: 40 months e) Commencement of Service: end 2023 				
15) Beneficiaries			16) Impact to Environment (Natural/Social)	
<ul style="list-style-type: none"> - All Yangon citizen (especially car user) - Industrial Estates - Urban Developers 			Resettlement of residents will be required	
17) Project Area		18) Location Map/Site Photo		
across the Yangon River		<p align="center">< Location Map ></p>  <p align="center">Source: YUTRA Project Team</p>		