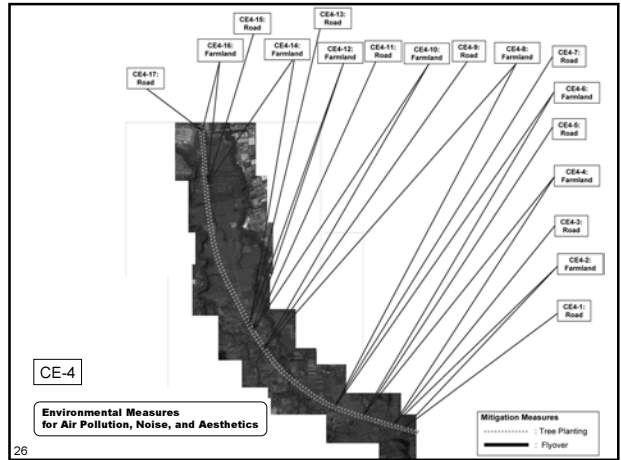


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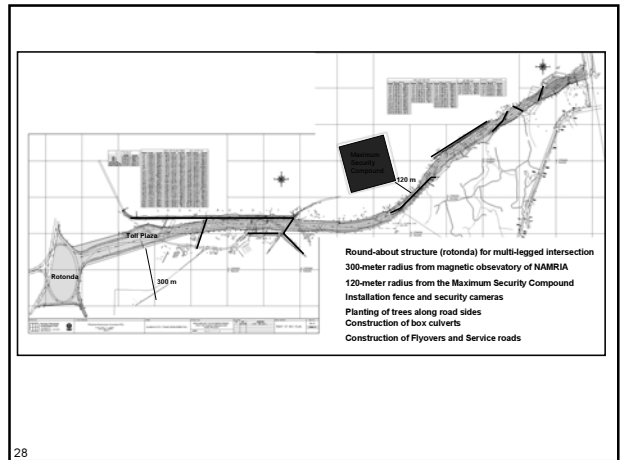


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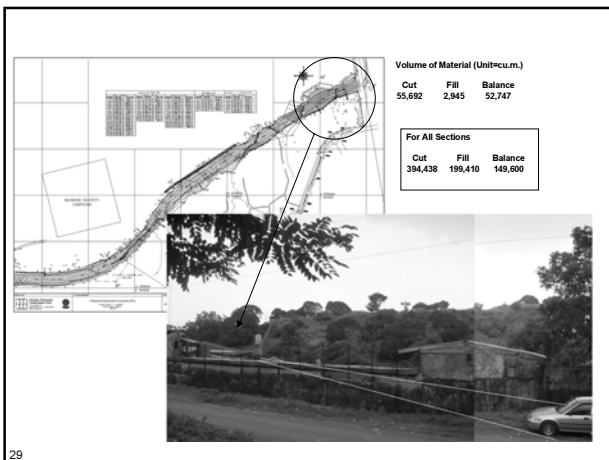
Mitigation/Enhancement Measure during Construction (1)

Items	Potential Environment Impact	Mitigation/Enhancement Measure
Land	Terrain modification; soil and weathered rock displacement	1) Clearing and excavation during dry season as much as possible, 2) Usage of temporary siltation ponds, 3) Placement of excavated materials on appropriate dumpsites, 4) Fencing of stockpiles of sand and gravel, 5) Revegetation of exposed area, 6) Strict observance of proper cut and fill procedures, 7) Restoration or dredging of silted waterways, 8) Usage of temporary sumps for detention of bentonite, 9) Usage of tarpaulins or equivalent to cover exposed stockpiles of excavated and construction materials, 10) Monitoring river quarrying for construction materials, 11) Monitoring of earthmoving activities
	Erosion and siltation of waterways	
	Slope destabilization at new cuts	1) Slope stability analysis, 2) Installation of slope protection measures
	Degradation: nearby roads	1) Regular road maintenance, restoration of roads
	Increase: generation of solid waste	1) Provision of waste bins, 2) Reuse and recycling, 3) Orientation of worker, 4) Regular hauling, 5) Clean up of equipment/vehicle, 6) Housekeeping practice, 7) Reuse of excavated materials for filling and as part of construction materials
Water	Changes in river water quality	1) Adequate location of gravel crushing, screening areas and concrete batching operations far away from water ways, 2) Undertaken of regular monitoring, 3) Installation of temporary sanitary landfill, 4) Material handling program, 5) Observation of equipment for excavation of materials
Air	Increase in particulates and gaseous emissions	1) Water sprinkling, 2) Regulation of vehicles speed, 3) Proper handling and storage of spoil materials, 4) Proper maintenance of engines, 5) Scheduling construction activities during daytime
Noise	Increase in noise levels	1) Assignment of traffic aides, 2) Usage of low-noise construction machine

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Mitigation/Enhancement Measure during Construction (1)

Items	Potential Environment Impact	Mitigation/Enhancement Measure
Terrestrial	Loss, disturbance and damage to existing vegetation	1) Replacement of cut tree, 2) Acquisition of permit from DENR for tree cutting, 3) Revegetation
Freshwater	Local aquatic habitat alteration and temporary displacement at species	1) Same mitigation measure for the control of soil erosion and sedimentation
Land Use and Zoning	Change in land value	1) Property appraisal by the local government unit before construction
Economic Activities	Total or partial loss of land/farm area, properties and crops, dislocation and loss of income due to ROW acquisition	1) Negotiation with PAFs/PAPs for an acceptable compromise on valuation and compensation, 2) Finalization of the LARP incorporating therein the agreements reached during public consultation
	Increase in livelihood and business opportunities (construction related)	1) Request for contractor to source workforce from qualified local as much as possible
Labor and Employment	Increase in employment opportunities	2) Orientation for workers on desirable working relationship especially if there are non-resident workers
Public Health / Safety	Potential health, sanitation and safety problems	1) Installation of temporary housing facilities equipped with adequate water and sanitation facilities, 2) Orientation for workers, 3) Installation of appropriate signage to avoid accidents

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Mitigation/Enhancement Measures in Operation

Items	Potential Environment Impact	Mitigation/Enhancement Measure
Land	Erosion at the discharge points of the road storm drains	1) Installation of dissipators at major discharge points of the roads' storm drains
Air	Increase in particulates and gaseous emissions	1) Planting tree along roads, 2) IEC to road users on the proper maintenance of engines
Noise	Increase in noise levels	1) Planting tree along roads, 2) Installation of noise barriers, 3) Traffic control and vehicle controls along the highway
Land Use and Zoning	Change in land value	1) Property appraisal by the local government unit before construction
Population	Increased migration and rapid population growth	1) Encouragement of proper zoning and enforcement for LGUs, 2) Encouragement of adequate plan for social service and infrastructure for LGUs, 3) Encouragement of prevention of squatter colonies
Economic Activities	Increased economic opportunities and revenues for LGUs	1) Encouragement of improving basic services, infrastructure and utilities for LGUs
Housing and Social Services	Regional severance	1) Establishment of intersection, underpass, overpass
Infrastructure and Public Utilities	Improvement of access to public utilities and services	1) Enhancement of accessibility by providing appropriate signage
Accidents	Increase in traffic accidents	1) Installation of appropriate signage

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Environmental Management & Monitoring Plan

Period	Environmental Item	Monitoring Item	Responsible Body
During Construction	Topography/geology/soil	Slope profile and signs of instability Occurrence of soil erosion and siltation	Contractor
	Water	River water quality: DO, pH, TSS, BOD, coliform	
	Air	TSP, SOx, NOx	
	Noise	Noise level	
	Vegetation	Inventory of tree cutting	
	Waste	Waste collection and disposal	
	Sanitation	Workers' health and safety	
In Operation	Air	TSP, SOx, NOx	DPWH/DENR/MMT
	Noise	Noise level	
	Vegetation	Tree planting and revegetation	

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2. Social Aspects



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Stakeholders' Meetings as a Public Involvement Process

No.	Study Phase	Main Subjects	Period	Number of Participants
1st	Preparation of Scenarios	- Study Outline - Past, Ongoing & Future Transport Projects - Scope of Stakeholders - Schedule & Objectives of Future Stakeholder Meetings	March 17, 2005	70 (held at 1 place)
2nd	Evaluation of Scenarios	- Alternative Development Scenarios - Environmental Framework-Social and Natural Environment - Alternative Scenarios for Regional Transport Network	June 16, 2005	81 (held at 1 place)
3rd	Preparation of Optimum Project Plan	- Outline of alternatives - Alternative measure in zero option - Scope and evaluation methodologies for ESC Study (EIA level) - Obtain opinion on concerned environmental impacts (This STM was also applied for the Official Scoping Session under EIS Process)	Sept. 23, 2005	98 (held at 1 place)
4th		- Results of evaluation on alternatives - Progress and interim results of ESC study (EIA level) - Study framework on preparation of optimum project plan	Dec. 7 in Cavite Dec. 8 in Laguna Dec. 12 in Muntinlupa, 2005	115 (held at 3 places)
5th		- Results of ESC study (EIA level) - Implementation arrangements of the project - Mutual consent on optimum project	Mar. 14 (Laguna) Mar. 15 (Cavite) Feb. 22 (Metro Manila), 2006	168 (held at 3 places)
6th	FIS	- Outline of FIS - Follow-up of ESC study (EIA level) - Explanation of resettlement policy	June 2, 2006	115 (held at 1 place)
7th		- Progress of the FIS - Explanation of framework of Resettlement Action Plan (RAP)	Jul.18-Aug.29, 2006	259 (held at 7 places)
8th		- Outline of results of FIS - Mutual consent on framework of RAP - Further arrangement and requirement for the implementation	Sept.8, 2006	-

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Proceedings and other information are available at the study web site (<http://www.cala-ew.info/>)

Positive Participation in the Stakeholders' Meeting



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Formulation of Preliminary Resettlement Action Plan

- Reference to Existing Laws and Policies
- Existing Practice (DPWH)
- Consultations with LGU's and Focus Group Discussions with Project-affected Families (PAFs)
- Way Forward
 - Detailed Engineering Stage
 - Parcellary Survey
 - Landowners and project-affected families will be positively identified
 - Consultation meetings with landowners and PAFs
 - Tagging and household surveys
 - Identification of relocation site
 - Disclosure meetings



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Status of Project Acceptability

- 1. **All barangay resolutions submitted (45 barangays)**
 - Municipal resolutions: 3 submitted and 4 to follow**
 - All provincial resolutions submitted**
 - RDC resolution existing. (Endorsement to ICC upon finalization of implementation scheme)**
 - MOU between DPWH and large landowners/developers for signing.**



THANK YOU

The Feasibility Study and Implementation Support on the CALA East-West
National Road Project

Appendix 9.5

Local Government Units and Regional Development Council Resolutions

September 2006

**List of Acquired LGU Resolutions
For CALA-East West National Road Project**

Municipality	Barangay	Proposed Roads			Barangay Resolution	Municipal Resolution
		N/S	E/W	CALA Expressway		
Bacoor	Mambog III	D	-	-	√	Discussion with SB held July 18, 2006. Resolution to follow.
	Mambog IV	D	-	-	√	
	Talaba II	D	-	-	√	
	Talaba III	D	-	-	√	
	Talaba VII	D	-	-	√	
	Zapote V	D	-	-	√	
	Molino IV	-	D	-	road exists	
Dasmariñas	Burol Main	D	-	-	√	No Discussion with SB held. Mayor's consent for meeting not given.
	Salitran I	D	-	-	√	
	Salitran II	D	-	-	√	
	Salitran III	D	-	-	√	
	Salitran IV	D	-	-	√	
	San Augustin I	D	-	-	√	
	San Augustin II	D	-	-	√	
	Langkaan I	D	-	D	√	
Imus	Anabu I-G	D	-	-	√	√
	Pasong Buaya I	D	D	-	√	
	Buhay na Tubig	D	-	-	√	
	Anabu II-D	-	D	-	√	
	Anabu II-E	-	D	-	√	
	Malagasang II-B	-	A	-	-	
	Malagasang II-C	-	D	-	√	
	Pasong Buaya II	-	D	-	√	
General Trias	Pasong Camachile I	-	D	-	√	√
	Pasong Camachile II	-	D	-	√	
	Pinagtipunan	-	D	-	√	
	Tapia	-	D	-	√	
	San Francisco	-	-	D	√	

Note: D – Directly affected barangays
A – Adjacent barangays

Cont. List of Resolutions

Municipality	Barangay	Proposed Roads			Barangay Resolution	Municipal Resolution
		N/S	E/W	CALA Expressway		
Tanza	Amaya I	-	D	-	√	√
	Biga	-	D	-	√	
	Sanja Mayor	-	D	-	√	
	Santol	-	D	-	√	
	Bunga	-	D	-	√	
	Mulawin	-	A	-	√	
Silang	Batas	-	-	D	√	Discussion with SB held on July 3, 2006. Resolution to follow.
	Biluso	-	-	D	√	
	Carmen	-	-	D	√	
	Biga I	-	-	D	√	
	Malaking Tatiao	-	-	D	√	
	Iba	-	-	D	√	
	Munting Ilog	-	-	D	√	
	Sabutan	-	-	D	√	
	Tibig	-	-	D	√	
	Kaong	-	-	A	-	
	Maguyam	-	-	A	-	
Santa Rosa City	Don Jose	-	-	D	√	Discussion with SB Committee held August 25, 2006. Resolution gone through first reading.
	Sto. Domingo	-	-	D	√	
	Malitlit	-	-	D	√	
Muntinlupa City	Tunasan	-	D	-	√	Presentation to Infra Cluster held Feb. 22, 2006. Resolution to follow upon approval of HUDCC NBP Masterplan
	Poblacion	-	D	-	√	

Province	Proposed Roads			Provincial Resolution
	N/S	E/W	CALA Expressway	
Cavite	D	D	D	√
Laguna	-	-	D	√

Note: D – Directly affected

BACCOOR



Republic of the Philippines
Province of Cavite
Municipality of Bacoor
Barangay MAMBOG III

Barangay Council

Reynaldo R. Reyes
Barangay Captain

Ernesto M. Romero
Kagawad

Cirila R. Tagle
Kagawad

Numeriano De Quiroz
Kagawad

Eugenio T. Mendoza
Kagawad

Lamberto P. Nolasco
Kagawad

Faustino M. Osis
Kagawad

Demetrio O. Saquillo
Kagawad

Raquel D. Tantay
Barangay Treasurer

Jose A. Topacio
Barangay Secretary

Imelda M. Osis
S.K. Chairman

OFFICE OF THE BARANGAY COUNCIL

EXCERPTS FROM THE MINUTES OF THE MEETING CONDUCTED BY THE BARANGAY COUNCIL OF BGY. MAMBOG III, MUN. OF BACOR, HELD ON JANUARY 28, 2006 AT THE BGY. HALL.

PRESENT; Reynaldo M. Reyes	Bgy. Captain
Ernesto Romero	Bgy. Kagawad
Cirila Tagle	-do-
Numeriano de Quiroz	-do-
Eugenio Mendoza	-do-
Lamberto Nolasco	-do-
Faustino Osis	-do-
Demetrio Sauquillo	-do-
Imelda Osis	SK-Chairperson
Raquel Tantay	Bgy. Treasurer

RESOLUTION No. 03 Series of 2006

RESOLUTION INTERPOSING NO OBJECTION TO THE IMPLEMENTATION OF THE PROPOSED CAVITE-LAGUNA (CALA) NORTH-SOUTH ROAD UNDER THE DPWH FEASIBILITY STUDY AND IMPLEMENTATION SUPPORT FOR THE CALA EAST-WEST NATIONAL ROAD PROJECT AND THE ENDORSING THE SAME TO THE MUNICIPALITY OF BACOR FOR ADOPTION IN THE COMPREHENSIVE LAND USE PLAN OF THE MUNICIPALITY.

WHEREAS, the Barangay is one among the Barangays comprising the Municipality of Bacor, Province of Cavite that needs such beneficial projects such as the Cavite-Laguna (CALA) North-South Road.

WHEREAS, the Bgy. Mambog III is a host for the CALA North-South Road proposed under the DPWH PMO FS-feasibility Study and implementation Support for CALA East-West National Road Project as shown in the attach general alignment map of the project.

WHEREAS, upon thorough discussion and deliberation of the matter, on motion of Kagawad Ernesto Romero, duly seconded by all Kagawad Members, it was;

RESOLVED, as it is hereby Resolved, the request of the DPWH PMO FS through the Feasibility Study and Implementation Support for CALA East-West National Road Project Manager that Bgy. Mambog III of Mun. of Bacor interposes no objection to construct the CALA North-South Road Project. also the same is hereby endorsed to the Mun. of Bacor for inclusion in the CLUP.

RESOLVED FURTHER, that copy of this resolution be forwarded to the DPWH PMO FS for appropriate consideration.
UNANIMOUSLY CARRIED JANUARY 28, 2006

PREPARED BY;

Joselito Topacio
Bgy. Secretary

APPROVED BY;

Reynaldo M. Reyes
Bgy. Captain

Republic of the Philippines
Province of Cavite
Municipality of Bacoor
BARANGAY MAMBOG IV

EXCERPTS FROM THE MINUTES OF THE MEETING CONDUCTED BY THE BARANGAY COUNCIL OF BARANGAY MAMBOG IV, MUNICIPALITY OF BACOOR, PROVINCE OF CAVITE, HELD ON January 27, 2006, AT THE BARANGAY HALL

Presents:

- | | |
|--------------------------|-------------------|
| 1. GAUDENCIO P. NOLASCO | Barangay Chairman |
| 2. VICENTE M. CRISOSTOMO | Barangay Kagawad |
| 3. RENATO O. TORRES | -do- |
| 4. FERMIN Q. RAMIREZ | -do- |
| 5. CEFERINO S. NOLASCO | -do- |
| 6. RODINIO T. TENGCO | -do- |
| 7. ELSIE R. MALINIS | -do- |
| 8. DIONISIO R. MALINIS | -do- |

Resolution No. 01, Series of 2006

“RESOLUTION INTERPOSING NO OBJECTION TO THE IMPLEMENTATION OF THE PROPOSED CAVITE-LAGUNA (CALA) NORTH-SOUTH ROAD UNDER THE DPWH FEASIBILITY STUDY AND IMPLEMENTATION SUPPORT FOR THE CALA EAST-WEST NATIONAL ROAD PROJECT AND ENDORSING THE SAME TO THE MUNICIPALITY OF BACOOR FOR ADOPTION IN THE COMPREHENSIVE LAND USE PLAN OF THE MUNICIPALITY.”

WHEREAS, the barangay is one among the barangays comprising the Municipality of Bacoor, Province of Cavite that needs such beneficial projects such as the Cavite-Laguna (CALA) North-South Road.

WHEREAS, the Barangay Mambog IV is a host for the CALA North-South Road proposed under the DPWH PMO FS – Feasibility Study and Implementation Support for CALA East-West National Road Project as shown in the attached general alignment map of the project.

WHEREAS, upon thorough discussion and deliberation of the matter, on motion of Kagawad Renato O. Torres, duly seconded by all Kagawad members, it was;

RESOLVED, as it is hereby Resolved, the request of the DPWH PMO FS through the Feasibility Study and Implementation Support for CALA East-West National Road Project Manager that Barangay Mambog IV of the Municipality of Bacoor interposes no objection to construct the CALA North-South Road Project. Also, the same road is hereby endorsed to the Municipality of Bacoor for inclusion in the CLUP.

RESOLVED FURTHER, that copy of this resolution be forwarded to the DPWH PMO FS for appropriate consideration.

UNANIMOUSLY CARRIED January 30, 2006

APPROVED:

GAUDENCIO P. NOLASCO
Barangay Chairman

Prepared by:

VICENTE R. MALINIS
Barangay Secretary

