Annex 1

Schedule for Strengthening of Construction Quality Controlof the Mid-Term Review

No	Date	D	Schedule	
1	12	S	1440	Mr. Takebayashi arrives at Hanoi
2	13	M	AM	Internal Meeting with Supporting Staff Preparation of Hand-Out Documents
			PM	Group Interview to Japanese experts Courtesy Call to Dr. Le Quang Hung (General Director, SACQI) Explanation of JICA Midterm Review
3	14	T	AM	Preparation of Hand-Out Documents
			PM	Interview with: Mr. Hoang Tho Vinh (Deputy General Director, CAMD) Mr. Le Van Thinh (Head of Inspection Div. No.1, SACQI) Dr. Trang Chung (Senior Expert, Head of Construction Quality Div., VFCEA) Mr. Nguyen Gia Chinh (Deputy General Director, Legal Affair Dept.) Mr. Nakasuka (Japanese Expert) Mr. Inoue (Japanese Expert)
4	15	W	AM	Interview with: Mr. Duong Minh Nghia (Deputy Head of Inspection Div., SACQI)
			PM	Interview with: Mr. Nguyen Xuan Phuong (CQM/SACQI) Mr. Nguyen Anh Tuan (CQM/SACQI) Dr. Tran Huu Ha (Deputy General Director, STE, MOC) Mr. Kato (Japanese Expert) Ms. Akabane (Japanese Expert)
5	16	T	AM	Interview with: Mr. Pham Duc Toan (Lecturer, Hanoi Construction University) Mr. Pham Duc Hinh, (Chief, Dept. of Construction Safety, CAMD)
			PM	Interview with: Mr. Takeuchi (Japanese Expert) Mr. Iwashita (Japanese Expert) Mr. Ngo Lam (Head of Inspection Div. No.3, SACQI) Dr. Le Quang Hung (General Director, SACQI) Project Manager, Transport Sector Loan Project
6	17	F	AM	Compiling Information / Drafting Documents
			PM	Interview with: Quality Control Specialist, North –South Railway Project
7	18	S		Drafting Documents
8	19	S		Drafting Document JICA Staff (Mr. Kojima & Ms. Funaba) arrive at Hanoi Evaluation Team Internal Meeting
9	20	M	AM	Meeting with JICA Vietnam Office
			PM	Meeting with Japanese Expert team
10	21	T	AM	Courtesy Call, Meeting with SACQI
			PM	Joint Evaluation Committee – Kick Off Meeting
11	22	W		Preparation of Draft Evaluation Report Translation into Vietnamese
12	23	T		Joint Evaluation Committee – Confirmation of Evaluation Report Meeting with SACQI – Confirmation of Evaluation Report
13	24	F	AM	Signing of MM including Evaluation Report Report JICA Vietnam Office
			PM	Report to EOJ
14	25	S		Evaluation Team Leaves for Japan

Annex 2

List of Interviewees

<MOC>

Name	Post
Dr. Le Quang Hung	General Director, SACQI, MOC
Dr. Tran Huu Ha	Deputy General Director, Science, Technology & Environment, MOC (Activity 5)
Mr. Hoang Tho Vinh	Deputy General Director, CAMD, MOC (Activity 1 & 4)
Mr. Nguyen Gia Chinh	Deputy General Director, Legal Affair Dept., MOC (Activity 2 & 4)
Mr. Pham Duc Hinh	Chief, Dept. of Construction Safety, CAMD (Activity 6)
Mr. Le Van Thinh	Head of Inspection Division No. 1, SACQI (Activity 1)
Mr. Ngo Lam	Head of Inspection Division No. 3, SACQI (Activity 3)
Mr. Duong Minh Nghia	Deputy Head of Inspection Division No. 2, SACQI (Activity 3)
Mr. Nguyen Xuan Phuong	CQM/SACQI (Activity 7)
Mr. Nguyen Anh Tuan	CQM/SACQI (Activity 7)
Dr. Tran Chung	Senior Expert, Construction Quality Division, VFCEA (Activity 2 & 5)
Mr. Pham Duc Toan	Lecturer, Hanoi Construction University (Activity 6)

<Japanese Experts>

Mr. Satoshi NAKASUKA	Long-term Experts: Advisor, Construction Quality Assurance
Mr. Sadafumi INOUE	Long-term Experts: JICA Expert / Construction Management
Mr. Tokujiro KAMIGATAGUCHI	Long-term Experts: Project Coordinator
Mr. Tsuneo KATO	Team Leader / Administration System / Quality Management System
Mr. Akira IWASHITA	Expert / Site Manager Qualification System
Mr. Jun TAKEUCHI	Expert / Contractor Evaluation System
Ms. Etsuko AKABANE	Expert / Human Capacity Development Programs

<Japanese ExpertsSpecialists>

Mr. AKUTSU	Project Manager, Transport Sector Loan Project Phase-2
Mr. Seigo YOKOTA	Quality Control Specialist, North-South Railway Project

Annex 3

ANNEX 1 PROJECT DESIGN MATRIX (PDM)

PROJECT TITLE: THE PROJECT FOR CAPACITY ENHANCEMENT IN CONSTRUCTION QUALITY ASSURANCE Project Duration: 3 Years

Project Outline	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions/Risks
Overall Goal	(Five Years after Project Completion)		
Construction quality assurance for Construction Works in Vietnam is functioning well.	The number of construction works conforming specification increase and the number of disqualifications and accidents involving workers during construction works decrease.	- Statistical data - Inspection records	
Project Objective	(Until Project Completion)		
Efficient administration functions which provide general rules over the implementation of various construction investment projects are prepared.	1. Regulations on the administration functions are approved and disseminated. 2. Project management technologies are officially approved. 3. Training programs commence.	- Monitoring of procedures for the approval of regulations, administration functions and project management technologies - Monitoring on seminars and training courses	- Regulations, administration functions and project management technologies are well understood among project implementing organizations. - Seminars and training course are regularly implemented.
Outputs			
1. Enhance construction quality assurance system. 2. Develop project management technologies for construction quality assurance. 3. Provide training opportunity to spread out project outcomes to persons related to construction projects.	1-1 Relevant regulation for the developed construction quality assurance system is disseminated. 1-2 Construction quality assurance system is drafted out. 1-3 Development policy on construction quality assurance system is agreed on. 2-1 Relevant regulations for the developed quality assurance technologies are disseminated. 2-2 quality assurance technologies are drafted out. 2-3 Development policies on the construction quality assurance technologies are agreed on. 3-1 The numbers of trainees reach targets. 3-2 Training programs are drafted out. 3-3 Policy on the training programs is agreed on.	1-1 Official gazette 1-2 Contents of the drafts 1-3 Contents of the policy 2-1 Official gazette 2-2 Contents of the drafts 2-3 Contents of the policy 3-1 Training records 3-2 Contents of the programs 3-3 Contents of the policy	- Organizations concerned cooperate to collect information. - Interagency coordination with relevant stakeholders and agencies is well established. - Development policies are agreed on in a planned time period. - Legalization of regulations is completed in a planned time period. - (Project owners), employers and project management agencies participate in the training courses.
Activities	**Inputs**		
	Japan Side	**Vietnam Side**	
1. Enhance construction quality assurance system.	1. Subjects where experts are assigned (1) Team leader/Advisor for construction quality (2) Contractor registration system (3) Contractor evaluation and selection system (4) Construction supervisor qualification system (5) Construction quality management manual (6) Specification (7) Construction safety management handbook (8) Training programs 2. Training in Japan and Vietnam 3. Equipment (1) Computer for database system (2) Vehicle (3) Others needed for the project implementation 4. Expenses for activities (1) Expenses for expert activities (2) Expense for holding training courses (3) Other expenses needed for the project implementation	1. Personnel (1) Project director (2) Project manager (3) Chief engineer (4) Counterpart staff (5) Office staff 2. Facility and Equipment (1) Office and equipment 3. Expense (1) Domestic travel expense for training programs (2) Travel expense for regional participants (3) Other expenses needed for project management	
1.1 Improvement of project management methods and clarification of responsibility of stakeholders (project owner, employer, engineer, contractor), focusing on construction quality assurance.			
(1) Review and analyze current status and responsibilities of each stakeholder.			
(2) Identify problems and draft revision of roles and responsibilities for stakeholders.			
(3) Draft amendment of concerned regulations.			
1.2 Improve state agencies' (especially MOC) inspection system for construction quality assurance			
(1) Review and analyze current status of inspection system for each state agency.			
(2) Review and evaluate current sanction regulation.			
(3) Identify problems and draft revision of inspection system employed by state agencies, comparing with information obtained in the [illegible]			
(4) Draft amendment of concerned regulations.			
1.3 Develop registration and an evaluation system for contractors.			
(1) Draft revision plan for contractor information management (CIM)			
(2) Revise the existing system under stakeholders' consensus on the CIM system.			
(3) Determine information needed for the registration of contractors, primarily focusing on civil work contractors.			
(4) Determine indexes for evaluating contractor's performance.			
(5) Develop database for contractor information management system.			
(6) Collect information and register in the database.			
(7) Start operating the contractor performance evaluation system.			
1.4 Apply contractor registration and evaluation system to enhance construction quality assurance.			
(1) Apply the contractor registration and evaluation system to the case study in order to classify and select contractors.			
(2) Recommend other applications of the developed system.			
1.5 Improve existing engineer qualification system in order to enhance engineers' capacity.			
(1) Analyze existing system and clarify subjects to be improved.			
(2) Draft requirements for the certificate of construction supervisors including Continuous Professional Development (CPD) program.			
(3) Draft amendment plan for the system.			
2. Develop project management technologies for construction quality assurance.			
2.1 Develop framework for construction work quality assurance			
(1) Select work types to develop the framework.			
(2) Draft framework of quality management manual for the selected work types.			
(3) As a sample of filling information into the framework, develop a manual for civil work construction quality assurance.			
2.2 Develop framework of specifications.			
(1) Select work types to develop the framework.			
(2) Draft framework of specification for the selected work types.			
(3) As a sample of filling information into the specification, develop a specification for civil work construction projects.			
(4) Conduct a case study and examine the contents of the specifications.			
2.3 Develop construction work safety manual.			
(1) Draft the safety manual.			
3. Provide training opportunity to spread out project outcomes to persons related to construction projects.			
3.1 Develop training system and draft training plans.			**Precondition**
(1) Collect and analyze information on the current status of the training courses, identify problems.			Vietnam side prepare staff, budget and facilities.
(2) Draft revision plan and formulate consensus on the plan.			
(3) Draft training system and training plans			
(4) Conduct stakeholder hearing on the plan and revise the draft.			
(5) Conduct a pilot training (OJT and Off/T)			

1-4 評価グリッド

Annex 4-1

Mid-Term Review: Evaluation Grid: Achievement of the Project

(Achievement)

Topics	Questions		Necessary Data	Information Sources	Means
Input	Was the input from the Vietnam side provided as planned? (Counterparts, offices, project cost, etc..)		Input Record(C/P Allocation、office、cost)	Input Record、Progress Report, Experts Selfevaluation	Document Review Questionnaire Interview
	Was the input from the Japanese side provided as planned? (Experts, counterpart training, equipment, project cost, etc.)		Input Record(Expert M/M, Field, timing, period, equipment, cost.)	Input Record、Progress Report, Experts Selfevaluation	Document Review Questionnaire Interview
Achievement of "Output"	(Output 1) "1) Enhance construction quality assurance system. " has been achieved?	(PDM indicator) Relevant regulations for the developed construction quality assurance is disseminated.	Official Gazette	Official Gazette, CP	Document Review Questionnaire Interview
		1.2 Construction quality assurance system is drafted out.	Contents of Draft Quality Management System	Draft Quality Management System, CP, Experts	Document Review Questionnaire Interview
		1.3 Development policy on construction quality assurance system is agreed on..	Contents of Draft Quality Management System Preparation Plan	CP, Experts	Questionnaire Interview
	(Output 2) "2) Develop project management technologies for construction quality assurance." has been achieved?	(PDM indicator) Relevant regulations for the developed construction quality assurance technologies is disseminated.	Official Gazette	Official Gazette, CP	Document Review Questionnaire Interview
		2.2 Quality assurance technologies are drafted out.	Contents of Draft Quality Management Standards	Draft Quality Management Standards, CP, Experts,	Document Review Questionnaire Interview
		2.3 Development policy on the construction quality assurance technologies is agreed on..	Contents of Draft Quality Management Standards Preparation Plan	CP, Experts,	Questionnaire Interview
	(Output 3) "3) Provide training opportunity to spread out project outcomes to persons related to construction projects." has been achieved?	(PDM Indicator) The number of trainees reach targets.	Training records (times, participants, period)	Training reports, CP , Experts	Document Review Questionnaire Interview
		3.2 Training programs are drafted out.	Contents of Draft Training Program	Draft Training Program, CP , Experts	Document Review Questionnaire Interview
		3.3 Policy on the training program is agreed on.	Contents of Draft Training Program Preparation Plan	CP, Experts	Questionnaire Interview
Achievement of "Project Purpose"	By the end of project period, "Efficient administration functions which provide general rules over the implementation of various construction investment projects are prepared.." has prospect to be achieved?	(PDM Indicator)Regulations on the administration functions are approved and disseminated.	Monitoring of formalization procedure of laws, institutions, specifications and technical manuals	Official Gazette, CP	Document Review Questionnaire Interview
		2 Project management technologies are officially approved.		Official Gazette, CP	Document Review Questionnaire Interview
		3 Training programs commence.	Monitoring of seminars and trainings	CP, Experts	Questionnaire Interview
Achievement of Overall Goal	"Construction quality assurance for construction works in Vietnam is functioning well." has prospect to be achieved?	The number of construction works conforming specification increaseand the number of disqualifications and accidents involving workers during construction works decrease.	Statistical Data Construction Works Inspection Data	Progress Report, CP, Experts	Document Review Questionnaire Interview

(Implementation Process)

Topics	Questions	Necessary Data	Information Sources	Means
Activities	Have the "Activities" of the Project been implemented as planned throughout the project period?	Progress of the "Activities"	Progress Report, Experts, CP	Document Review Questionnaire Interview
Transfer of Technology	Was there any problem in the process of transfer of technology from the Japanese experts?	How the transfer of technology has been carried out by each expert and its effect	Progress Report, Experts, CP	Document Review Questionnaire Interview
Project Management	What kind of monitoring system does the project has (Who is in charge and how often?) How the monitoring results have been feedbacked to the project	Monitoring methods, Feedback system, How the results of monitoring is used?	Progress Report, Experts, CP	Document Review Questionnaire Interview
	What was the decision-making process in revision of activities and direction, selection of staff, etc?	Decision-making process and its challenges	Progress Report, Minutes of JCCs/ECs, Experts, CP	Document Review Questionnaire Interview
	How were the communication among Japanese experts (including with short-term experts) made?	Method of communication (frequency, timing, style)	Experts	Interview
	How did the experts and Vietnamese CP make the coordination, consultation, guidance each other?	Frequency, style and contents of communication	Experts, CP	Interview
	Did the Japanese partner organization (JICA Vietnam office and Headquarters) support the project well? Was the communication good?	Frequency, style and contents of communication, How they reacted to the change of the plan	Experts, JICA Office	Interview
Ownership	Do the Vietnam project counterparts (MOC & MOT staff) actively participate in the project management?	Ownership and participation of the MOC & MOT staff (number of CP, level of participation and style and contents of participation)	Progress Report, Experts, JICA Office	Document Review Questionnaire Interview
	Has the Vietnam side input (budget, personnel, facilities and equipment) to the project been appropriate?	mode and methodologies of project implementation, responsiveness on changes of the Plan of Operation, approaches for joint problem solution, method of developing working relationship	Progress Report, Experts, CP	Document Review Interview
	Do the Vietnam project members take active participation in the project activities?	mode and methodologies of project implementation, responsiveness on changes of the Plan of Operation, approaches for joint problem solution, method of developing working relationship	Progress Report, Experts, CP	Document Review Interview
Counterparts	Were the Counterparts appropriate for the project activities in terms of their expertise and position?	Allocation of CP, Expertise Positions	CP Allocation, Progress Report, Experts, CP	Document Review Questionnaire Interview
	How many times did the counterparts change? What were the reasons for transfer/resignation? Was there any problem due to the transfer? How did the project deals with these problems?	Periodical allocation of CP	CP Allocation, Progress Report, Experts, CP	Document Review Questionnaire Interview

Mid-Term Review: Evaluation Grid "The Project for Capacity Enhancement in Construction Quality Assurance"

5 Criteria	Topics	Questions	Information/Data to be collected	Information Sources	Means
1. Relevance	1.1 Needs	Is the Project Purpose relevant to the needs of Vietnam's social needs?	Issues and needs of Vietnam on construction quality	CP, Expert, Other donors (WB, ADB)	Document Review Interview Questionnaire
		Is the Project Purpose relevant to the needs of the target group (MOC & MOT staff) ?	Issues and problems of target groups on construction quality	Target Group (MOC & MOT staff)	Questionnaire Interview
	1.2 Priority	Is the Project Purpose aligned with the development plans and strategies of Vietnam?	National development policy, Infrastructure Sector development plan	National development policy, Infrastructure Sector development plan, CP	Document Review
		Is the Project Purpose aligned with Japan's country assistance policy and strategy for Vietnam?	Japan's development assistance policy, JICA's assistance policy for Vietnam and priority areas	ODA Charter, Country Assistance Policy to Vietnam, JICA's assistance policy for Vietnam	Document Review
	1.3 Strategy	Has the project taken an appropriate approach to achieve the Project Purpose? (Project purpose, selection of target group and CP institution, donor coordination, coordination with other Japan's assistance)	Process of the selection of CP, target group and CP institution, coordination mechanism with other relevent donors (ADB, WB)	CP, MOC, Experts	Interview
		Did Japan have comparative advantage in this technical area? (Has Japan accumulated technical know-how in this area? Has Japanese experienced been utilized?)	Experience and achievement of JICA's assistance in similar areas	Project document, JICA report in the similar areas, Expert, CP	Interview
2. Effectiveness	2.1 Achievement of the Project Purpose	Will the Project Purpose be achieved by the end of the Project based on the inputs, outputs and the progress of the activities?	Project performance, Degree of achievement of the Project Purpose		
	2.2 Causality	Were three Outputs only prerequisites for the achievement of the Project Purpose? Are there any other Outputs that would have been necessary for achievement of the Project Purpose? Have the changes in outputs influenced achievement of the Project Purpose?	Consequences between the Output and the Project Purpose	PDM, Progress report, Experts, CP	Document Review Interview
		To what extent "Important Assumptions" from Outputs to Project Purpose were relevant to achievement of the Project Purpose? Was any influence caused by Important Assumption?	- policy status of forth account system in MPWT - Situation of Budget allocation for training and pilot project - Turn over Situation of staff who have received training	Progress Report, Experts, CP(Financial department)	Questionnaire Interview
		Are there any factors contributed to achievement of the Project Purpose?	Contributing factors	Progress Report, Experts, CP	Document Review Interview Questionnaire
		Are there any factors impeded achievement of the Project Purpose?	Impeding factors	Progress Report, Experts, CP	Document Review Interview Questionnaire
3. Efficiency	3.1 Achievement of Outputs	will Output 1~3 be most likely to be achieved by the end of project? To what extent achievement has been produced by each output?	Achievement of Output 1~3 Record of Activities and achievement of Output 1~3		
	3.2 Causality	To what extent "Important Assumptions" from the Activities to the Outputs were relevant to achievement of the Outputs? Was any influence caused by Important Assumption?	- Turn over situation of CP and the reasons - Assignment of supplementary staff after resignation/transfer of CP	Progress Report, Experts, CP	Document Review Interview Questionnaire
	3.3 Input	Were the inputs from the Vietnam side appropriate in terms of contents (CP personnel, facilities, etc) and timing?	Record of Inputs (CP personnel: areas of fields, number, position), equipment, facility, training)	Progress Report, Experts, CP	Document Review Interview Questionnaire
		Were the inputs from the Japanese side appropriate in terms of contents (experts, equipment, project cost) and timing?	Record of Inputs(Experts: areas, number, equipment, project cost) , Timing and cost, Difference from the Plan	Progress Report, PO, Experts, CP	Document Review Interview Questionnaire
		Were the Activities carried out timely? When there was a delay in Input which need to carry out the activity, how the Project deal with those situation?	Record of Activities (Difference from the Plan) Response when the problem happened	Progress Report, PO, Experts, CP	Document Review Interview Questionnaire
	3.4 Others	Do you think that the current project management system has worked well for the project in terms effectiveness and efficiency?	Project management system (number of CP, experts, areas, positions)	Progress Report, Experts, CP	Document Review Interview Questionnaire
		Has the Project produce any synergistic effect in cooperation with other initiatives done by Japan, other development agencies, or Vietnam?	Synergistic effect, if any Cooperation effect with Japan's other initiative (Grant Aid, Other TC project, Volunteer Programme)	Progress Report, Experts, CP, MOC/MOT staff who is in charge of Construction Quality	Document Review Interview Questionnaire
		Are there any other factors particularly contributing/impeding to the Project efficiency?	Contributing/Impeding Factors	Progress Report, Experts, CP	Document Review Interview Questionnaire
4. Impact	4.1 Achievement of Overall Goal	Will the Overall Goal be achieved within 3-4 years after the end of the Project based on the result of inputs, outputs and activities, and achievement of the project Purpose?	- Prospect to achieve Overall Goal - Examples of Contributing/Impeding Factors	Experts, CP	Interview Questionnaire
	4.2 Contributing/Obstructive factors	Are there any factors that would contribute to achievement of the Overall Goal?	Achievement, Effect of Important Assumptions, Contributing factors	Experts, CP	Interview Questionnaire
		Are there any factors that would impeding achievement of the Overall Goal?	Achievement, Effect of Important Assumptions, Impeding factors	Experts, CP	Interview Questionnaire
	4.3 Causality	Is the consequence from the project purpose to the Overall Goal logically designed?	Structure of the Project (PDM), Effect of Important Assumptions, Contributing/Impeding factors	PDM3, Progress Report	Interview Questionnaire
	4.4 Positive Impact	Has the Project produced any positive impact on policy, regulations and strategies?	Examples	Experts, CP, JICA	Interview Questionnaire
		Has the Project produced any positive impact on other donors' projects?	Examples	Experts, CP, JICA	Interview Questionnaire
		Were there any influences to other than the target group?	Examples	Experts, CP, JICA	Interview Questionnaire
		Were there any positive impacts other than above?	Examples	Experts, CP, JICA	Interview Questionnaire
	4.5 Negative Impact	Has the Project produced any unexpected negative impacts? If so, what are the reasons? Has the project taken any measures for those negative impacts?	Examples Countermeasures from the Project against negative impacts	Experts, CP, JICA	Interview Questionnaire
5. Sustainability	5.1 Political and Institutional	Will the political support on infrastructure development from the Vietnamese government be maintained even after the end of the Project?	- Policy and strategies of the Vietnamese government on infrastructure development	Current Policy papers (RS II), Experts, CP, JICA	Document Review Interview Questionnaire
	5.2 Organizational and financial aspects	Is there a clear mechanism in MOC to renew regulations, standards and manuals? (office in charge and Budget)	Direction and policy of MOC	CP, Experts, JICA	Interview Questionnaire
		Is there a clear mechanism in MOC (& MOT) to continue the training to the stakeholders?	Direction and policy of MOC (& MOT)	CP, Experts, JICA	Interview Questionnaire
		Is there a mechanism to maintain and update database of documents even after the end of the Project ? (Budget, Staffing, Decision making process)	Direction and Policy of MOC Maintenance mechanism of information management	CP Experts, JICA	Interview Questionnaire
		Has the MOC embraced sufficient level of ownership of the Project?	policy decision, staffing, budget	CP, Experts, JICA	Interview Questionnaire
	5.3 Technical aspects	Is there enough technical skills and knowledge in MOC to revise and update the regulations, standards and manuals? (appropriateness of technical level, social & cultural consideration, etc.)	How the regulations, standards and manuals are utilized by the MOC staff Which office of MOC is in charge?	Progress Report Experts, CP	Interview Questionnaire
		Is there enough technical skills and knowledge in MOC to update and maintain the document database alone? (appropriateness of technical level, social & cultural consideration, etc.)	How the update of database is conducted Which office of MOC is in charge?	CP, Experts	Interview Questionnaire
		Is there enough technical skills and knowledge in MOC to collect and maintain necessary information alone? (appropriateness of technical level, social & cultural consideration, etc.)	How the collect of drawing is conducted Which office of MOC is in charge?	Progress Report Experts, CP	Interview Questionnaire Observation
		Are the trained trainers by ToT able to perform as lecturers to MOC etc. without assistance by Japanese experts?	How the trained skills are utilized	CP, Experts	Interview Questionnaire
		Is equipment provided by the Project maintained by MOC without any technical difficulties?	How the equipment is utilized and maintained	Progress Report Experts, CP	Interview Questionnaire Observation
	5.4 Social, Cultural and Environmental	Should the Project have been more concerned with the socially vulnerable groups (the poor, women, etc)? Has there been any instances that such lack of concerns hinder the achievements of impacts?	Examples of impeding factors	CP, Experts, JICA	Interview Questionnaire
	5.5 Other aspects	Are there any factors hindering ensuring sustainability?	Examples of impeding factors	CP, Experts, JICA	Interview Questionnaire

1-5　投入実績リスト

ANNEX 5-1

Dispatch of Japanese Experts

Plan	Records (*From May 2010 to 31st January, 2012)	
＜R/D>	Field of Expertise	Total (MM)
1) Advisor for construction quality assurance 2) Administration system/ quality management system 3) Quality inspection system 4) Contractor registration system 5) Contractor evaluation and selection system 6) Construction supervisor qualification system 7) Construction quality management techniques 8) Specification 9) Construction safety management 10) Training programs	Advisor/Construction Quality Assurance (Long-term expert)	19.10
	Construction Management (Long-term expert)	16.50
	Project Coordinator (Long-term expert)	18.75
	Team Leader/Administration System/Quality Management System	7.90
	Deputy Team Leader/Manager Quality Inspection System	6.00
	Contractor Selection & Registration System	5.90
	Contractor Evaluation System	7.50
	Supervisor Qualification System	5.00
	Site Manager Qualification System	0.17
	Quality Management Technology/Specifications	8.50
	Construction Safety Management	3.50
	Human Capacity Development Programs	3.76
	Architecture Technology	2.00
	Registration and Evaluation System Development	2.50
	Short-term expert for Seminar in HCMC	0.13
	Short-term expert for Seminar in HCMC	0.13
	Short-term expert for Seminar in HCMC	0.13

Sources: Project Report

* 1st Year: May, 2010- March, 2012　　2nd Year: April, 2012-　March, 3013

Annex 5-2

Plan	Records				sources
<R/D> (1) Computer for database system (2) Vehicle for construction supervision (3)Others needed for the project implementation	(1) Computer for database system				JICA Vietnam Office's document, Reports, Observation
	Item	Quantity	Amount (US$)	Specification	
	Computer	1	2,000		
	(2) Vehicle for construction supervision				
	Item	Quantity	Amount (US$)	Specification	
	Vehicles	2	51,360	TOYOTA Land Cruiser Prado TX-L 4.0 7 A/T	
	(3)Others *exchange rate 1 USD = 75.84 JPY				
	Item	Quantity	Amount (US$)	Specification	
	ULTRASONIC FLAW DETECTOR	1unit	83,600	OLYMPUS OMNISCAN MX2PA	
	COATING THICKNESS MEASUREMENT	1 unit	18,075	OLYMPUS 38 DL Plus	
	CONTOUR PROBE	1 unit	3,100	XEBEX INTERNATIONAL XB-A2L	
	EDDY CURRENT FLAW DETECTOR	1 unit	26,000	OLYMPUS MS5800	
	CONCRETE TEST HAMMER	1 unit	2,600	SANYO NS	
	ULTRASONIC PULSE VELOCITY TEST INSTRUMENT	1 unit	18,000	PROCEQ PUNDITLAB	
	CORROSION ANALYZING INSTRUMENT	1 unit	14,000	PROCEQ CANIN+	
	REBAR DETECTION SYSTEM	1 unit	12,000	PROCEQ PROFOMETER 5+SCANLOG	
	STRUCTURE SCAN SYSTEM	1 unit	23,000	PROCEQ GEOPHYSICAL SURVEY STRUCTURE SCAN MINI	
	CORE DRILLING MACHINE	1 unit	5,500	GOLTZ KB125	
	CRACK DETECTION MICROSCOPE	1 unit	913	MATEST C399	
	PERMEABILITY TESTER	1 unit	27,000	PROCEQ TORENT	
	PULL-OFF TESTER	1 unit	14,400	PROCEQ DYNA PULL-OFF	
	TOTAL STATION	1 unit	14,450	PENTAX R-425-VN	
	AUTOMATIC LEVEL	1 unit	1,000	PENTAX AP-241	
	LASER DISTANCE METER	1 unit	1,100	LEICA DISTO D8	

Annex 5-3

List of Counterparts

1) Project Management Unit (PMU)

No	Name	Title & Office
1	Dr. Le Quang Hung	General Director, SACQI/MOC
2	Mr. Le Quang	Deputy General Director, SACQI/MOC
3	Mr. Hoang Hai	Director, CQM, SACQI/MOC
4	Mr. Ngo Tinh Tuy	Chief of the Authority Office, SACQI/MOC
5	Mr. Nguyen Hong Linh	Secretary/Interpretor, SACQI/MOC
6	Ms. Tran Thi Thu Dung	Accountant, SACQI/MOC
7	Ms. Pham Vu Diem Hang	Project Accountant, SACQI/MOC
8	Ms Le Thuy Hang	Filing clark/Casher, SACQI/MOC
9	Mr. Nguyen Quoc Chinh	Official, SACQI/MOC
10	Mr. Vo The Anh	Head, Training Division, CQM, SACQI/MOC
11	Mr. Tran The Anh	Driver, CQM, SACQI/MOC
12	Mr. Nguyen Huu Toi	Driver, SACQI/MOC

2) Counterpart Experts

Activities			Name	Title
Activity 1	Improve Project Management Method and Clarify Responsibilities for Stakeholders		Mr. Hoang Tho Vinh	Deputy General Director- Construction Activities Management (CAMD) (MOC)
			Mr. Le Van Thinh	Head of Inspection Decision No.1 (SACQI)
			Mr. Pham Duc Toan	Lecturer-Hanoi Construction University
Activity 2	Improve State Agency's (Especially MOC) Inspection		Mr. Tran Chung	Senior expert, Head of Construction Quality Division- Vietnam Federation of Civil Engineering Association
			Mr. Le Van Thinh	Head of Inspection Decision No.1 (SACQI)
			Mr. Nguyen Gia Chinh	Deputy General Director- Legal Affair Department (MOC)
Activity 3	Develop and Apply Contractor Registration and Evaluation	3.1 Contractor selection system	Mr. Nguyen Viet Hung	Senior expert, former general director
			Mr. Duong Minh Nghia	Deputy Head of Inspection Decision No.2
		3.2 Contractor evaluation system	Mr. Hoang Tho Vinh	Deputy General Director- Construction Activities Management (CAMD) (MOC)
			Mr. Ngo Lam	Head of Inspection Decision No.3
Activity 4	Improve Existing Engineer Qualification System		Mr. Hoang Tho Vinh	Deputy General Director- Construction Activities Management (CAMD) (MOC)
			Mr. Nguyen Gia Chinh	Deputy General Director- Legal Affair Department (MOC)
Activity 5	Develop project management technologies in construction quality assurance specification		Mr. Tran Chung	Senior expert, Head of Construction, Quality Division- Vietnam Federation, of Civil Engineering Association
			Mr. Nguyen Đại Minh	Director of Industrial and Infrastructure, Engineering - Vietnam Institute for, Building Science and Technology (IBST)
			Mr. Tran Huu Ha	Deputy General Director- Science, Technology and Environment (MOC)
			Mr. Nguyen Ngoc Long	Former General Director -TCQM (Ministry of Transport)
Activity 6	Develop project management technologies in construction quality assurance	6.1 Frameworks	Mr. Pham Duc Toan	Lecturer-Hanoi Construction University
			Mr. Nguyen Nam Hai	Director of QUACERT
		6.2 Work Safety Manual	Mr. Phan Dang Tho	Deputy Chief of Inspector, Ministry of Labour,Invalid and social
			Mr. Pham Duc Toan	Lecturer-Hanoi Construction University
		6.3 Software for project management in construction quality	Mr. Nguyen Nhat Quang	Hai Hoa Software Informatics Co Ltd
			Mr. Duong Minh Nghĩa	Deputy Head of Inspection Division No.2
			Mr. Nguyen The Dung	CQM/SACQI
Activity 7	Provide training opportunities to spread out project outcomes/equipment		Mr Nguyen Viet Son	CQM/SACQI
			Mr. Nguyen The Dung	CQM/SACQI
Activity 8	Assessment of construction works		Mr. Ngo Lam	Deputy Head of Inspection Division No.3

2

Counterpart Training Participants

1)C/P Traning for Construction Quality Assuarance

Duration : From 28 Nov. to 11 Dec., 2010

Training participants

No	Name	Title & Office
1	Mr.Nhu Nguyen Hong Cuong,	Deputy Director, Viet Nam Center for Technology Construction Quality Management, SACQI, Ministry of Construction (MOC)
2	Mr.Nguyen Minh Truong	Senior Official, Division of Construction Quality Inspection No.2, SACQI, MOC
3	Mr.Nguyen Trong Thai,	Official, Division of Construction Quality Inspection No.1, SACQI, MOC
4	Mr.Ha Ngoc Hong	Deputy Director, Hanoi City Department of Construction Directorate, Ha Noi DOC
5	Mr.Ngo Tinh Tuy	Chief of the Authority, SACQI, MOC
6	Mr.Nguyen Huy Quang	Director, Consultant & Inspection JSC of Construction Technology & Equipment (CONINCO)
7	Mr.Le Cong Khanh	Deputy Director, Center of Construction Quality Inspection-Dak Lak Department of Construction
8	Mr.Nguyen Le Thi	Manager, Technical Inspection Department No.6, Quality Assurance & Testing Center
9	Mr.Vu Quoc Khiem	Department Chief, Management and Economy Construction, Centre for Quality Verification and Economy
10	Mr.Ta Chi Nhan	Director, Center for Construction Verification and Planning, Can Tho City's Department of Construction
11	Mr.Pham Anh Tuan	Vice Director General, Sai Gon Construction Quality Control

2) C/P Training for Construction Quality Assurance

Duration : From 28 Nov. to 9 Dec., 2011

Training participants

No	Name	Title & Office
1	Mr Le Van Thinh	Head of Division- Construction Quality Inspection No. 1 State Authority for Construction Quality Inspection, MOC
2	Mr Nguyen Hong Linh	Secretary, Co-ordinator, Project Management Unit, State Authority for Construction Quality Inspection, MOC
3	Mr Nguyen Viet Son	Head of General Affaird & Planning, Vietnam Center for

		Technology of Construction Quality Management (CQM)-State Authority for Construction Quality Inspection, MOC
4	Mr Tran To Nghi	Deputy General Director, Authority for Works Construction Management, Ministry of Agriculture and Rural Development. (MARD)
5	Mr Duong Ngoc Thanh	Vice Head of Construction Quality Management, Ho Chi Minh City Department of Construction
6	Mr Nguyen Van Do	Director, Bac Giang Province Construction Inspection Center
7	Mr Hoang Quang Dat	Director, Lao Cai Province Construction Inspection Center
8	Mr Dinh Khac Tiep	Director, Nam Dinh Province Construction Inspection Center
9	Mr Pham Huu Duy	Director, Quang Binh Province Construction Inspection Center
10	Mr Giang Quoc Doanh	Director, Ba Ria-Vung Tau Province Construction Inspection Center
11	Mr Tran Tien De	Deputy General Director, Sai Gon Construction Quality Control Joint Stock Company

3) Seminar on Constrcution Quality Assurance for Vietnamese Senior Officials in Construction Sector

Duration : From 28 February 2011 to 4 March 2011

Seminar Participants

No.	Name	Title & Office
1	Mr.Bui Trung Dung	Deputy Director General, State Authority for Construction Quality Inspection (SACQI), Ministry of Construction
2	Mr.Nguyen Thanh Hang	Deputy Director General, Planning and Investment Department, Ministry of Transport
3	Mr. Tran The Ky	Deputy Director General, Department of Transport, Ho Chi Minh City
4	Mr.Dang Trung Thanh	Deputy Director General, Transportation Construction Quality Management Department, Ministry of Transport
5	Mr.Nguyen Van Hiep	Deputy Director, Quality Control of Construction Project, Department of Construction , Ho Chi Minh City
6	Mr. Tran Ngoc Thien	Director General, Construction Activity Management Department, Minsitry of Construction

Annex 6

Allocation of Activities

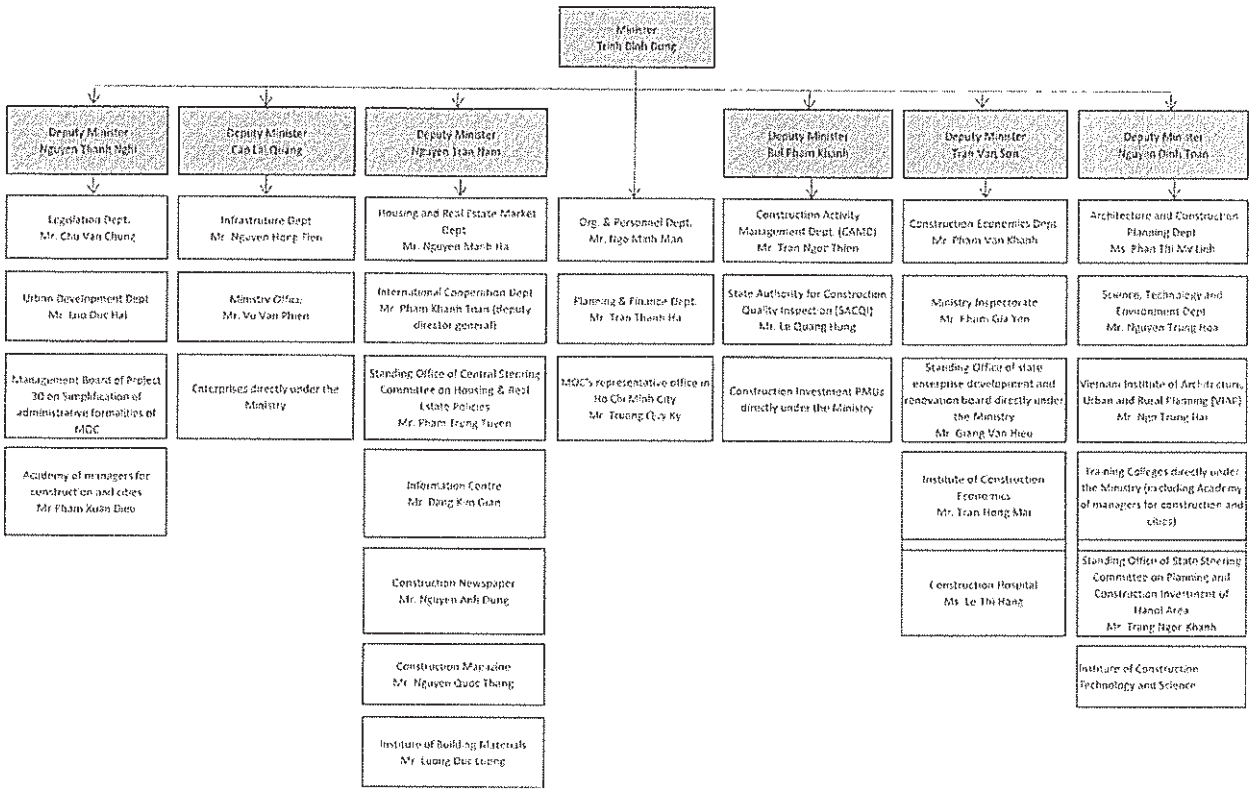
Records of Discussions signed on March 26, 2010	Interim Report in February 2012
Output (1) Enhance construction quality assurance system.	
1.1 Improvement of project management methods and clarification of responsibility of stakeholders (project owner, employer, engineer, contractor), focusing on construction quality assurance (1) Review and analyze current status of construction quality management system and responsibilities of each (2) Identify problems and draft revision of construction quality management system; roles and responsibilities of stakeholders (3) Draft amendment of concerned regulations	1 Improve project management methods and clarify responsibilities for stakeholders 1) Enhance responsibility assignments between project owners and PMUs 2) Strengthen institutions for developing technical standards 3) Improve contract management to speed up procedures 4) Strengthen institutions for constructed facility maintenance Output Recommendations on the Capacity Enhancement Plans
1.2 Improve state agencies' (especially MOC) inspection system for construction quality assurance (1) review and analyze current status of inspection system for each state agency (2) Review and evaluate current sanction regulation (3) Identify problems and draft revision of inspection system employed by state agencies, comparing with information obtained in the developed countries (4) Draft amendment of concerned regulations, manual	2 Improve state agency's inspection system for construction quality assurance (especially MOC) 1) Strengthen state management audit system to project Owners 2) Strengthen sanctions against improper construction quality management 3) Strengthen training and communication functions for CQM 4) Enhance CIC's supports for project owner's PMU inspection Output Recommendations on the Capacity Enhancement Plans
1.3 Develop registration and an evaluation system for contractors (1) Draft revision plan for contractor information management (CIM) system (2) Revise the existing system under stakeholders' consensus on the CIM system (3) Detemine information needed for the registration of contractors, primarily focusing in civil work contractors (4) Determine indexes (including quality matter) for evaluating contractor's performance (5) Develop database for contractor and engineer information management system (6) Collect information and register in the database (7) Start operating the contractor, engineer performance evaluation system 1.4 Appply contractor registration and evaluation system to enhance construction quality assurance (1) Apply the contractor registration and evaluation system to the case study in order to classify and select contractors (2) Recommend other applications of the developed system	3 Develop and apply registration and evaluation system for contractors 1) Construction Contractor Registration System 2) Consultant Registration System 3) Construction Package Database System 4) Construction Contractor Performance Evaluation System Output 1) Computer Software 2) Operation Guidelines 3) Regulations
1.5 Improve existing engineer qualification system in order to enhance engineers' capacity (1) Analyze existing system and clarify subjects to be improved (2) Draft requirements for the certificate of construction supervisors including Continuos Professional Development (CPD) program (3) Draft amendment plan for the system	4 Improve existing engineer qualification system 1) Improve Examination System 2) Improve Training Courses 3) Continuous Professional Development 4) Establish Intermediate-Level and Advanced-Level Qualifications Output Recommendations on the Capacity Enhancement Plans
Output (2) Develop project management technologies for construction quality assurance.	
2.1 Develop framework for construction work quality assurance (1) Select work types to develop the framework (2) Draft framework of quality management manual for the selected work types (3) As a sample of filling information into the framework, develop a manual for civil work construction quality assurance 2.2 Develop framework for specifications (1) Select work types to developthe framework (2) Draft framework of specification for the selected work types (3) As a sample of filling information into the specification, develop a specification for civil work construction projects (4) Conduct a case study and examine the contents of the specifications	5 Develop project management technologies in construction quality assurance 1) Develop Framework of Standard Technical Specifications 2) Develop a Sample Technical Specification for Civil Works 3) Develop Framework of Construction Quality management Manual 4) Develop a Sample Construction Quality Management Manual for Civil Works Output 1) Framework of Standard Technical Specifications and a Sample Technical Specification for Civil Works 2) Framework of Construction Quality Management Manual and a Sample Construction Quality Management Manual
2.3 Develop construction work safety manual (1) Draft the safety manual	6 Develop construction work safety manual 1) Develop Safety and Health Manual 2) Develop Case Studies on Labor Accidents and Near-Miss Incidents Output 1) Safety and Health Manual 2) Case Studies on Labor Accidents and Near-miss Incidents
Output (3) Provide training opportunity to spread out projects overcomes to persons related to construction projects.	
3.1 Develop training system and draft training plans (1) Collect and analyze information on the current status of the training courses, identify problems (2) Draft revision plan and formulate consensus on the plan (3) Draft Training system and training plans (4) Conduct stakeholder hearing on the plan and revise the draft 3.2 Conduct a pilot training (OJT and OFFJT)	7 Develop training system and draft training plans 1) Improve Training Systems 2) Conduct Training Courses in Vietnam Output 1) Recommendation on Improvement Plans 2) Training Courses in Vietnam

Annex 7

Regulations scheduled to be revised, supplemented or newly prepared in 2012 and 2013

No.	Regulations	Status	Activity of the Project	Year
1	Law on Construction		Activities 1, 2, 3, 4, 5 & 6	2013
2	Decree on quality management of construction works	replacing Decree No. 209/2004/ND dated December 16, 2004 and Decree No. 49/2008/ND-CP dated April 18, 2008 of the Government	Activities 1, 2, 3, 4, 5 & 6	2012
3	Decree on management of construction investment projects	replacing Decree No. 12/2009/NĐ-CP and Decree No. 83/2009/NĐ-CP of the Government	Activity 4	2012
4	Decree on Construction Permits and Construction management based on construction permits	new	Activity 1	2012
5	Decree on safety in construction activities	new	Activity 6	2012
6	Decree on Inspectorate of Construction	replacing Decree No.46/2005/ND-CP dated April 6, 2005 of the Government	Activity 2	2012
7	Decree of the Government	revising & supplementing Decree No.180/2007/ND-CP dated December 7, 2007 detailing and guiding the implementation of a number of articles of the construction Law regarding the handling of violations of urban construction order		
8	Decree of the Government	revising & supplementing Decree No. 23/2009/ND-CP on sanctioning of administrative violations in construction activities; real estate business; exploitation, production and trading of construction materials; management of technical infrastructure; and management of development of houses and offices	Activity 2	2012
9	Decree of the Government	revising & supplementing some articles of the Decree No.48/2012/ND-CP dated May 7, 2012 on contracts in construction activities	Activity 1	2012

THE ORGANIZATION CHART OF MINISTRY OF CONSTRUCTION (MOC)



2．「Decree209」の改定案対比表

Decree 209 (exeisting)			Decree 209 (revision)		
Chapter 1	General provision		Chapter 1	GENERAL PROVISIONS	
Article 1	Scope and subjects of application		Article 1	Scope of application	
			Article 2	Subjects of application	
			Article 3	Interpretation of term	
			Article 4	General principles in the quality management of construction facilities	
Article 2	System of construction standard		Article 5	Technical codes and standards used in construction	
			Article 7	Technical specifications of the project	追加
			Article 8	Registration and announcement of information on eligibilities of contractors/consultants involved in	追加
			Article 9	Evaluation on the performance of contractors/consultants getting involved in construction	追加
Article 3	Supervision by people of the quality of construction		Article 10	Supervision of people (public supervision) on construction facility quality	
Chapter 2	Classification and grading of construction works				
Article 4	Classification and grading of construction works		Article 6	Classification and grading of construction facilities	
Article 5	Grading of construction works				
Chapter 3	Quality management of construction surveys		Chapter 2	QUALITY MANAGEMENT OF CONSTRUCTION	
Article 6	Construction surveying tasks		Article 11	Sequence of the implementation and quality management of construction surveys	
Article 7	Construction survey technical plans		Article 12	Contents of the survey quality management by construction surveying consultants	
Article 8	Contents of construction survey result reports		Article 13	Contents of the survey quality management by designing consultants	
Article 9	Supplementation of construction surveying tasks		Article 14	Contents of the survey quality management by POs	
Article 10	Responsibilities of construction surveying contractors for protection environment and construction works in survey areas		Article 15	Responsibilities of entities and individuals carrying out the supervision of construction surveys	
Article 11	Supervision of construction surveys				
Article 12	Checking and acceptance of construction survey results				
Chapter 4	Quality management of works construction disigns		Chapter 3	QUALITY MANAGEMENT OF DESIGNS FOR CONSTRUCTION FACILITIES	
Article 13	Technical designs		Article 16	Sequence of the implementation and the quality management of designs for construction faclities	
Article 14	Construction drawing designs		Article 17	Contents of the quality management by designing	
Article 15	Requirement on the specification of construction design dossiers		Article 18	Contents of the design quality management by POs	
			Article 19	Contents of the design quality management by decision makers	
Article 16	Checking and acceptance of construction design dossiers		Article 20	Verification of designs for construction facilities & Responsibilities of consultants verifying designs for construction facilities	
			Article 21	Inspection of designs for construction facilities by competent State authorities	追加
Article 17	Change of construction designs		Article 22	Changes of designs for construction facilities	
Chapter 5	Management of construction quality		Chapter 4	QUALITY MANAGEMENT OF CONSTRUCTION	
Article 18	Organization of construction quality management		Article 23	Sequence of the implementation and the quality management of construction execution, acceptance for putting facilities into use	
Article 19	Construction quality management by contractor		Article 24	Contents of the execution quality management by construction contractors	
Article 20	Construction quality management by genegal contractor				
Article 21	Construction quality supervision by investors		Article 25	Contents of quality management by manufacturers and suppliers of materials, equipments, elements to be used in the construction facilities	
			Article 26	Contents of the quality management by project owner s	修正
			Article 27	Responsibilities of construction supervision consultants	追加
Article 22	Author supervision by construction designing contractor		Article 28	Author supervision by design consultants	
			Article 29	Safety management duiring construction execution	追加
Article 23	Organization of checking and acceptance of construction works	削除			
Article 24	Checking and acceptance of construction jobs	削除			
Article 25	Checking and acceptance of construction parts or construction stage	削除			
Article 26	Checking and acceptance of completed construction items or construction works before they are put into use	削除			
Article 27	Construction completion drawings		Article 30	Completion dossiers of completed items, facilities and archives of dossiers for construction facilities	
Article 28	Certification of ability to ensure force-bearing safety and certification of quality conformity of construction works		Article 31	Inspection for putting the facilities into use by competent authorities	追加
			Article 32	Certification on load bearing capacity conditions and certification on quality conformity of construction	
			Article 33	Specialized testings, quality inspection and state inspection on construction facilities quality	追加
Chapter 6	Warranty of construction works		Chapter 5	WARRANTY OF CONSTRUCTION FACILITIES	
Article 29	Warranty of construction works		Article 34	Warranty of construction facilities	
Article 30	Responsibilities of involved parties for warranty for construction works		Article 35	Responsibilities of involved parties for the warranty for construction works	
Chapter 7	Maintenance of construction works				
Article 31	Levels of maintenance of construction works				
Article 32	Construction work maintenance duration				
Article 33	Construction works maintenance procedures				
Article 34	Responsibilities of owners or use managers of construction works for construction works maintenance				

Chapter 8	Incidents of construction works	
Article 35	Contents of handing of incidents of construction works	
Article 36	Construction work incident dossiers	
Chapter 9	Organization of implementation	
Article 37	Srate management responsibilities for the quality of construction works	
Article 38	Organization of implementation	
Article 39	Implementation effect	

Chapter 6	DEFECTS ON THE QUALITY AND INCIDENTS DURING THE PROCESS OF CONSTRUCTION EXECUTION	
Article 36	Defects on the quality of construction facilities	
Article 37	Classification of incidents during the process of construction execution	
Article 38	Contents of handling of incidents of construction	
Article 39	Facility incident dossiers	
Article 40	Handling of incidents of construction facilities by competent State authorities	
Article 41	Disputes over the quality of construction facilities	
Chapter 7	TATE MANAGEMENT ON THE QUALITY OF CONSTRUCTION FACILITIES	
Article 42	State authorities on the quality of construction facilities	
Article 43	Contents of the State management on the quality of construction facilities of MOC	追加
Article 44	managing specialized construction facilities and other Ministries, sectors	追加
Article 45	Responsibilities of State management on the quality management of construction facilities by Provincial People's Committees	追加
Article 46	Responsibilities of specialized agencies assisting Provincial People's Committee in performing the state management on the quality of construction facilities	追加
Chapter 8	IMPLEMENTATION PROVISIONS	
Article 47	Organization of implementation	
Article 48	Implementation effect	

STATISTIC ON THE SITUATION OF LABOR ACCIDENTS

FROM 2005 TO JUN-2011 IN VIET NAM

Year		The number of cases	The number of victims	The number of fatal cases	The number of deaths	The number of seriously injured people	The female laborers	The number of cases with 2 victims or more
2005	Jan~Jun	2,596	2,670	237	252	607		
	Full year	4,050	4,164	443	473	1,026		59
2006	Jan~Jun	2,104	2,204	241	258	664		
	Full year	5,881	6,088	505	536	1,142		147
2007	Jan~Jun	2,996	3,057	197	224	457		
	Full year	5,951	6,337	505	621	2,553		78
2008	Jan~Jun	2,497	2,574	231	239	418		
	Full year	5,836	6,047	508	573	1.262		129
2009	Jan~Jun	1,958	1,998	231	239	418		
	Full year	6,250	6,403	507	550	1,221	1,152	88
2010	Jan~Jun	2,611	2,680	245	266	525	684	50
	Full year	5,125	5,307	554	601	1,260	944	105
2011	Jan~Jun	3,531	3,642	233	273	544	630	44

Source: Announcement of Vietnam Ministry of Labor, Invalids and Social Affairs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