

1. Member List of the Study Team

(1) Outline Design Survey Team (May 17, 2008 \sim June 20, 2008)

Name	Job Title	Organization
Mr. Shigeru OKAMOTO	Leader	Executive Advisor to the Director General Grant Aid and Loan Support Department, JICA
Mr. Tomoyuki YASUDA	Planning Management	Senior Project Officer, Project Management Division II, Grant Aid and Loan Support Department, JICA
Mr. Hisafumi MICHIKAWA	Project Manager/ Construction Planning/ Education Planning	Mohri, Architect & Associates, Inc.
Mr. Nobuhiro MOHRI	Architectural Design	Mohri, Architect & Associates, Inc.
Mr. Hiroyuki YOSHIZAWA	Construction and Procurement Planning / Cost Estimation	Mohri, Architect & Associates, Inc.
Ms.Minako TAKAHASHI	Coordinator / Education Planning 2	Mohri, Architect & Associates, Inc.
Mr. Shinichi YAMAMOTO	Architectural Design 2	Mohri, Architect & Associates, Inc.

(2) Draft Report Explanation Team (October 9, 2008 ~October 23, 2008)

Name	Job Title	Organization
Mr. Tsutomu KOBAYASHI	Leader	Senior Representative, JICA JICA Palestine Office to Palestine
Mr. Tomoyuki YASUDA	Planning Management	Senior Project Officer, Project Management Division II, Financing Facilitation and Procurement Supervision Department, JICA
Mr. Hisafumi MICHIKAWA	Project Manager/ Construction Planning/ Education Planning	Mohri, Architect & Associates, Inc.
Mr. Hiroyuki YOSHIZAWA	Construction and Procurement Planning / Cost Estimation	Mohri, Architect & Associates, Inc.

(3) Explanation for the Draft Tender Documents (January 30, 2009~February 7, 2009)

Name	Job Title	Organization
Mr. Hisafumi MICHIKAWA	Project Manager/ Construction Planning/ Education Planning	Mohri, Architect & Associates, Inc.
Mr. Nobuhiro MOHRI	Architectural Design	Mohri, Architect & Associates, Inc.
Mr. Hiroyuki YOSHIZAWA	Construction and Procurement Planning / Cost Estimation	Mohri, Architect & Associates, Inc.

2. Study Schedule

(1) Outline Design Study (May 17, 2008~June 20, 2008)

		1	Α	С	С	D	l E	F	G
					0		Consultant Members	'	
			JICA Official Members		Project	1	Procurement/		1
			Leader	Planning Management	Manager/Construction Planning/Education	Architectual Design	Construction Planning/Cost Estimation	Educational Planning	Architectural Design
			Shigeru Okamoto	Tomoyuki Yasuda	Hisafumi Michikawa	Nobuhiro Mohri	Hiroyuki Yoshizawa	Minako Takahashi	Shinichi Yamamot
			8Days	8Days	35Days	29Days	35Days	36Days	19Days
0	5/16	Fri						Narita →	
1	5/17	Sat	Narita → Tel Aviv				Narita → Tel Aviv	→ Tel Aviv	
2	5/18	Sun	Site Survey (Nablus)				Same as C		
3	5/19		Courtesy Visit to Embas Aviv)-> Transfer to Rar	sy of Japan and JICA Pa mallah	lestine Office (Tel		Same as C		
4	5/20	Tue	Discussion with MEHE	(Ramallah), Other School	ol Projects Survey		Work on Contract with Local Consultant	Same as C	
5	5/21	Wed	Site Survey (Jericho、1	Γubas)			Work on Contract with Local Consultant	Same as C	
6	5/22	Thu	Signing Minutes of Discu	ussion			ConstructionCost Estimation Survey	Same as C	
7	5/23	Fri	Report to Embassy of Ja	apan and JICA Palestine	Office (Tel Aviv)	Narita → Paris	Data Analysis	Same as C	
8	5/24	Sat	Tel Aviv → Paris		Internal Meeting	Paris → Tel Aviv	Internal Meeting		
9	5/25	Sun			Interview with Donor(s)(KFW)	ConstructionCost Estimation Survey Cost Estimation Survey	Same as C	
10	5/26	Mon			Interview with Donor(s)(EU)	(Ramallah) Cost Estimation Survey	Same as C	
11	5/27	Tue			Interview with Donor(s)'		(Ramallah) Cost Estimation Survey	Education Survey	
12	5/28	Wed			Local Consultant Survey, Survey(Nablus)	Other Projects	Cost Estimation Survey (Nablus) Cost Estimation Survey	Education Survey	
13	5/29	Thu			Local Consultant Surve	у	(Ramallah)	Education Survey	
14	5/30	Fri			Data Analysis				
15	5/31	Sat			Internal Meeting				
16	6/1	Sun			Local Consultant Survey		(Ramallah)	Education Survey	Narita → Tel Aviv
17	6/2	Mon			Site Survey Preparation	l		•	Tel Aviv→Ramallah
18	6/3	Tue			Site Survey (Beit Dajan,	Nablus)			
19	6/4	Wed			Site Survey (Baita, Sout	th Nablus)			
20	6/5	Thu			Site Survey (Al Fara'a, 1	Tubas)			
21	6/6	Fri			Internal Meeting				
22	6/7	Sat			Site Survey (Jericho,	Jericho)			
23	6/8	Sun			Site Survey (Al-Zubeio	dat, Jericho)			
24	6/9	Mon			Site Survey (Wadi Fara	a'a)			
25	6/10	Tue			Work on Layout Plan		Cost Estimation Survey	Education Survey	Same as C
26	6/11	Wed			Work on Layout Plan		Cost Estimation Survey	Education Survey	Same as C
27	6/12	Thu			Disucssion with MEHE	Work on Contract with I	_ocal Consultant	Education Survey	Same as C
28	6/13	Fri			Data Analysis		•		
29	6/14	Sat			Draft Field Report				Same as C
30	6/15	Sun			Disucssion with MEHE	Work on Contract with I		Same as C	Same as C
31	6/16	Mon			Additional Survey	•	Additional Survey on Construction Cost Estimation	Same as C	Same as C
32	6/17	Tue			Disucssion with MEHE,	Signing Field Report	Construction Cost Estimation Additional Survey on Construction Cost Estimation	Same as C	Same as C
33	6/18	Wed			Report to Embassy of Japan and JICA			Tel Aviv→Amsterdam	
34	6/19	Thu	Tel Aviv → Paris				Amsterdam→Narita		
35	6/20	Fri			Paris → Narita				

(2) Draft Explanation Study (October 9, 2008~October 23, 2008)

		_					
				官団員 (Official Members)		コンサルタント	· (Consultants)
			小林 勤 Mr. Kobayashi	安田 智幸 Mr. Yasuda	前田 憲次 Mr. Maeda	道川 久文 Mr. Michikawa	吉澤 博幸 Mr. Yoshizawa
			団長 (現地) Leader	計画管理 Planning Management	調達監理 Procurement Management (JICS)	(a) 業務主任/建築計画 /教育事情 Project Manager/Construction Planning/Education Planning	(b) 施工計画/積算 Architectural Design
1		木 Th			成田 (NRT) 13:00 → フランクフ	バルト (FRA) 18:00 JL407	
2	10月10日 10-Oct	金 Fr			フランクフルト (FRA)10:15 → ご 16:00 JICA表敬(Courtesy call		
3	10月11日 11-Oct	± Sa			移動:テルアビブ → ジェリコー (Transfer Tel Aviv → Jericho -		ericho site
4	10月12日 12-Oct				AM 教育庁表敬/協議 (Meeting 現地再委託業務 (Sub Consulta		
5	10月13日	月			公共事業庁中央入札局 (Centra necessary), コンサルタント協会、建設業協会		現地再委託業務
J	13-Oct	Мо			Association & Contractors Unic 教育省補足協議 (Additional Me	on)	(Sub Consultant negotiation)
6	10月14日 14-Oct			成田 (NRT)11:35 → フランクフルト(FRA) 16:35 NH209	補足調査 (Additional Survey)	教育省設計協議 (Meeting of 現地再委託業務 (Sub Consu	
7	10月15日 15-Oct			フランクフルト(FRA)10:15 → テルアビブ (TLV)14:00 LH686 16:00 JICA表敬(Courtesy call to JICA)	補足調査 (Additional Survey)	教育省設計協議 (Meeting or 機材補足調査 (Additional sur	
	10月16日	木	08:00 テルアビブ → ラ	マラ (Transfer Tel Aviv → Ram Allah)	教育省協議 (Meeting with ME	HE)	
8	16-Oct	Th	11:00 教育庁表敬/協議 14:00 ミニッツ協議(M/E	(Courtesy call to MEHE, Explanation on DE) Discussion)	BD, M/D Discussion)		補足調査 (Additional Survey)
9	I	金 Fr	資料整理 (data analysis)				
10	10月18日 18-Oct	± Sa	サイト調査4校(Site Sur	vey for 4 schools)			
11	10月19日	日	12:00 ミニッツ署名 (Signi				
	19-Oct	Su	ラマラ(Ram Allah)→テル	アビブ (Tel Aviv)	補足調査 (Additional Survey)	現地コンサリタントと打ち合せ Consultant)	(Meeting with Local
12	10月20日	月	09:00 大使館報告 (Report to EOJ) 10:00 JICA報告 (Report to JICA)				
Н	20-Oct			テルアビブ(TLV)15:45 → フランクフルト (FRA)20:00 LH687	12:00 教育庁補足協議 (Addit.	ional Meeting with MEHE)	
13	10月21日 21-Oct		フランクフルト (FRA) 20:45 ラマラ → テルアピブ (Ram Allah Transfer → Tel Aviv) テルアピブ(TLV) 15:45 → フランクフルト (FRA) 20:00 LH687				7
14	22-Oct	We	→成田着 (NRT) 14:50 NH210 フランクフルト (FRA) 21:00 →				
15	10月23日 23-Oct		成田着 (NRT) 15:00 JL 408				

(3) Explanation for the Draft Tender Documents (January 30, 2009~February 7, 2009)

			;	コンサルタント (Consultants))	
			道川 久文 Mr. Michikawa	毛利 信弘 Mr. Mohri	吉澤 博幸 Mr. Yoshizawa	
			(a) 業務主任/建築計画 /教育事情 Project Manager/ Architectural Planning/ Education Planning	(b) 建築設計 Architectural Design	(b) 施工計画/調達事情/ 積算 Construction & Procurement Planning/ Cost Estimate	
1	1月30日 31-Jan	金 Fr	成田 (NRT) 1330 (JL407) 1	745 フランクフルト (FRA)		
2	1月31日 31-Jan	± Sa		フランクフルト(FRA) 1005 (LH686) 1450 テルアビブ(TLV) 移動:テルアビブ → ラマラ(Transfer Tel Aviv → Ram Allah)		
3	2月1日 1-Feb	日 Su	現地コンサルタントと打ち合せ(Meeting with Local Consultant)			
4	2月2日 2-Feb	月 Mo	教育省に入札参考資料説明 (Explanation of Draft Tender Documents to MEH			
5	2月3日 3-Feb	火 Tu	教育省協議 (Discussion with MEHE on Technical Notes)			
6	2月4日 4-Feb	水 We	テクニカルノート署名 (Signing the Technical Notes)			
7	2月5日 5-Feb	木 Th	移動:ラマラ→テルアビブ (Ram Allah → Tel Aviv) JICA / 大使館報告 (Report to JICA / EOJ) テルアビブ(TLV) 1635 (LH687) 2000 フランクフルト(FRA)			
8	2月6日 6-Feb	金 Fr	フランクフルト (FRA) 2025 (JL408)→			
9	2月7日 7-Feb	土 Sa	→1550 成田着 (NRT)			

3. List of Parties Concerned in the PA.

Ministry of Education and Higher Education

Ms. Laime Mustafa Alami		Minister
	Mr. Fawaz Mujahed	Director General, Buildings
	Mr. Fakhri Safadi	Director of Engineering
	Mr. Abdul Salan	Director, School Building Services
	Ms. Wisam Nakhleh	Head, Division of Projects/Building
	Ms. Khawla Shihadeh	Head, Division of Design
Duilding	Ms. Sarab Omar	Architectural Engineer
Building Section	Mr. Samer Mousa	Electrical Engineer
Section	Ms. Rowaida Shaker	Structural Engineer
	Ms. Hedab Omar	Structural Engineer
	Mr. Khaled Edwan	Staff, Engineering Building Department
	Mr. Rami Ismail	Engineer
	Mr. Jehad A Draidi	Acting Director General of Projects
	Mr. Sai'd Jawhari	Acting Head of Supervision Section
Ms. Hana A. Abu Hijleh		Director, Procurement and Tendering
Mr. Nida Abu Baker		Staff, Procurement Section
Mr. Mahmoud Dawod		Director, Equipment
Mr. Hussein M. Manssor		Acting Director General, Supplies
Mr. Yahya	Shawa Maeh	Head, Division of Planning
Mr. Munji	d Suleiman	Head, Division of Statistics
Mr. Mahdi	i. M F Hamdan	Head, Division of School Map
Ms. Sara Hammoudeh		Director, Budget
Mr. Mustafa M. Al-Odeh		Vice Director General, Administrative
		Affairs
Mr. Iyad M. Abuarrah		Director, Department of Authentication
Mr. Faiz Sulieman		Director of Distribution
Mr. Kamal Bawatna		Director of Textbook and Printing
Mr. Taleb	H. Mohammad	Director, Computer Center
Mr. Moha	mmad Qalalwa	Director of Supplies Dept.

Ministry of Planning

Dr. Cairo Arafat	Director General
Mr. Ibrahim Abdulrahim	Director General

Ministry of Public Works and Housing

Mr. Bassam Jaber	Director of Central Tendering Department
Ministry of Local Government	
Mr. Fawaz Rabaia	General Coordinator, JICA Projects

Directorate of Education, Nablus

Mrs. Sanar Akkob	Director of Education
Mr. Hussain Abdulhaq	Head, Dept of Engineering
Ms. Samar Qadi	PR Responsible
Mr. Tayseir Mohammad Abu Wardeh	Headmaster of Beit Dajan School
Ms. Abeer Hanani	Teacher
Ms. Samar Hanaysheh	Teacher

Directorate of Education, South Nablus

Mr. Mohammad Awwad	Director of Education
Mr. Ismail Faleh	Head, Division of Planning
Mr. Nazmi Yusuf Dweikaf	Headmaster, Baita Basic Boys School
Ms. Suhair Issa Saeed Jaber	Headmistress, Baita Basic Co-ed School

Directorate of Education, Tubas

Mr. Iyad Mohammad Ahnarrar	Director of Education
Mr. Yassin Abdul-latief Banymatter	Headmaster, Al-Fara'a Secondary School
Mr. Nasser Abu Kishk	Teacher, Fara'a Basic School

Directorate of Education, Jericho

Mr. Mohammad A. El-Hawwash	Director of Education, Jericho
Ms. Amal Johar	Civil Engineer, Educational Directorate of
	Jericho
Ms. Fadia Omran	Statistics and Planning
Mr. Imad Jabeh	-
Mr. Taiseer Saeed Deraghmeh	Headmaster, Al-Buhtari Boys School
Ms. Hana Saleem Zubeidat	Headmaster, Al-Zubeidat Girls School

Bait Dajan (Nablus)

Mr. Nasser Abu-Jeesh	Mayor of Beit Dajan
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Beita (Nablus)

Mr. Arab Shurafa	Head of Municipality
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Al-Fara'a (Tubas)

Mr. Basem Zakarnel	Directorate Engineer
Mr. Nedal Sawalmeh	Officer of Local Committee
Mr. Husni Mohammad Zahran	Engineering Dep. Ministry of Local
	Government

Jericho Municipality (Jericho)

Mr. Hassan Saleh	Mayor
Ms. Samar Zaina	Head of Planning Project Section
Mr. Mohammad Fetiane	Head of Executing Department
Mr. Adnan Hammad	Council Member
Ms. Dima Qasen	-

Al-Zubeidat Villege (Jericho)

Mr. Hassan Jarmi	Council Member
Mr. Asmail Zubeidat	Council Member

Palestinian Contractors Union – Jerusalem

Mr. Samih Tubeileh	Senior Vice President
Mr. Naser Osaily	Vice President
Mr. Adel Odah	Chairman
Mr. Adel O. Bader	General Secretary
Mr. Jiries H. Attalla	Board Member
Mr. Mamdouh Al Saber	Board Member

Engineers Association – Jerusalem Center

Mr. Marwan K. Jum'a	Chairman
Mr. Faisal Diab	Director, Tech. Affairs Dept
Mr. Eyad Bakeer	Chairman Engineering Offices Board

Islamic Development Bank

Dr. Jawad Naji Deputy Minister

Dr. Naser Jaber Rayyan	Senior Business Advisor
Mr. Abdel Rahman Shtayeh	Engineer

EU

Mr. Osama Bazour	Procurement Expert

KfW

Ms. Nadia Shabana	Program Officer
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The Representative Office of Norway to the Palestinian Authority

Ms. Grate Løchen	Deputy Representative/Counselor
Ms. Signe Marie Breivik	Programme Advisor

Embassy of Japan

Kuninori Matsuda	Minister
Tatsushi Nishioka	First Secretary
Masahiko Mitsumoto	Second Secretary
Kaori Tanaka	Second Secretary

Representative Office of Japan to the Palestinian Authority

Mr. Tetsushi Kondo Head	Mr. Tetsushi Kondo	Head
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JICA Palestine Office

Seiichi Koike	Resident Representative
Tsutomu Kobayashi	Senior Representative
Akihiko Iwasaki	Deputy Resident Representative
Kazuhiko Sakamoto	Deputy Resident Representative
Hideaki Iwase	Project Formulation Officer
Tetsuya Mizutani	Project Formulation Officer

JICA Field Office (Ramallah)

Dr. Nawahda Amin	Project Coordinator
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JICA Field Office (Jericho)

Dr. Abed Al-Naser Makky	Coordinator
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4. Minutes of Meetings

(1) Field Survey 1

MINUTES OF DISCUSSIONS

ON OUTLINE DESIGN STUDY

ON THE PROJECT

FOR ESTABLISHMENT OF NEW SCHOOLS IN THE WEST BANK

In response to the request from the Palestinian Authority (hereinafter referred to as "PA"), the Government of Japan decided to conduct Outline Design Study on the Project for Establishment of New Schools in the West Bank (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent the Outline Design Study Team (hereinafter referred to as "the Team"), which was headed by Mr. Shigeru OKAMOTO, Executive Advisor to the Director General, Grant Aid and Loan Support Department, JICA to PA and was scheduled to stay in the West bank from May 18, 2008 to June 18, 2008.

The Team held discussions with the officials concerned of PA and conducted field survey at the study area. In the course of discussions and field survey, both parties have confirmed the main items described in the attached sheets.

Ramallah May 22, 2008

Mr. Shigeru OKAMOTO

Leader.

Outline Design Study Team

Japan International Cooperation Agency

Kamis M. alami

H.E. Lamis Mustafa Alami

Minister

Ministry of Education and Higher Education

Palestinian Authority

H.E. Dr. Samir Abdalla

Minister

Ministry of Planning

Palestinian Authority

ATTACHMENT

1. Objectives of the Project

The objectives of the Project are to improve educational environment through the construction of facilities for schools. Through achievement of this objective, it is expected that the Project will contribute to the improvement of the quality of education and providing access to education for all children, which are described as one of main targets of "the Five Year Plan."

2. Purpose of the Outline Design Study

- 2-1. PA side understood the purpose of the Outline Design study, which was explained by the Team with the Inception Report.
- 2-2. PA side understood the implementation of the Project will be finally determined by the Government of Japan based on the result of the Outline Design study.

3. Responsible and Implementing Organization

The responsible and implementing organization of the Project is the Ministry of Education and Higher Education. The organization chart of implementing organization is shown in ANNEX 1.

4. Project Sites

PA side proposed five (5) candidate sites as shown in ANNEX 2.

5. Components of the Project

PA side requested that the components of the Project are described in ANNEX 3.

6. Japan's Grant Aid Scheme

- 6-1. PA side understood the Japan's Grant Aid Scheme for Community Empowerment described in ANNEX 4-1 and ANNEX 4-2, which were explained by the Team.
- 6-2. PA side assured to take the necessary measures, as described in ANNEX 5, for smooth implementation of the Project.
- 6-3. PA side assured to take the necessary measures to make VAT exemption for all local contracts

6-4. Relevant Issues on ANNEX5 for the Project

- Clear level and reclaim the site (No.2)

PA side strongly requested that the cost for clearing, leveling and reclaiming the land were to be covered by the Grant Aid. The Team explained the basic principle of Japan's Grant Aid scheme that the recipient government takes responsibility for those works. However, the Team will examine possibility to include those works into the Grant Aid from the technical point of view.

- Gates, fences and playgrounds of schools (No.3)

PA side strongly requested that the cost of construction of the gates, fences and playing grounds were to be covered by the Grant Aid. The Team explained the basic principle of Japan's Grant Aid scheme that the recipient government takes responsibility for those works.

- Furniture and equipment procured by the Project (No.7-6))

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Both sides agreed that furniture and equipment to be procured by the Project will be limited to the basic furniture and equipment which are essential for educational facilities.

- Budget and Personnel (No.12)

PA side assured to allocate necessary budget and personnel for the maintenance of the facilities constructed by the Project

7. Framework of Project Implementation and Scope of Works

Both sides agreed on the following framework of implementation;

- 7-1. The implementation flow of the Japan's Grant Aid Scheme for Community Empowerment is shown in ANNEX 6, "Procurements Guideline for Grand Aid for Community Empowerment" is shown in ANNEX 7,
- 7-2. PA side shall conclude a procurement management service contract with Japan International Cooperation System (JICS), who shall carry out the following Terms of References;
 - (1) Administration of the Grant Budget
 - (2) Preparation and evaluation of tender
 - (3) Signing contracts with contractors, suppliers or service providers
 - (4) Payment to contractors, suppliers or service providers
 - (5) Assisting to organize committee meetings
 - (6) Management of the progress of the project
- 7-3. To implement the project smoothly, both sides confirmed to facilitate a committee composed of PA side and the government of Japan. The members of committee shall be as follows;
 - (1) Representative of Embassy of Japan in Israel or his/her deputy
 - (2) Representative of Ministry of Education and Higher Education or his/her deputy
 - (3) Representative of Ministry of Planning or his/her deputy
- 7-4. The construction supervision and the construction works will be implemented based on the contents of the Outline Design Study.
- 7-5. PA side strongly insisted on applying national competitive bidding procedures. Both sides agreed to have further discussions on the possibility to materialize this clause depending on the assessment of the Team that Palestinian local contractors have enough capacity to undertake the work of this project.

8. Schedule of the Study

The Consultant members of the Team will proceed to carry out further studies in the West Bank until 18th of June, 2008.

Based on the results of the field survey and study in Japan, JICA will dispatch the second Outline Design mission to the West Bank in October 2008 to explain the draft report of the Outline Design.

9. Other Relevant Issues

9-1. Land Tenure for the Project sites

PA side understood that the land tenure of the sites are one of the most important criteria to implement the Project. The Team understood that the lands of all candidate sites are authorized

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to be used exclusively for the Project.

9-2. Components and Facilities

If the cost of the project exceeds the available budget as a result of the tender, the component of the project or the number of classrooms may be modified. If the cost of the project is less than the budget, the construction of additional facilities or the provision of additional equipment may be taken into consideration.

9-3. Design of the facilities

Both sides agreed to design the facilities by utilizing the standard design of PA schools. If necessary, the consultant team would modify the design based on the condition of the Project sites.

9-4. Security

The Team explained that the Japanese side was concerned about the security of the Project sites. Both sides agreed that a new arrangement for implementation of the Project will be discussed at any stage of the Project in case the Japanese side judged that the security situation of the site(s) was not appropriate to implement the Project.

ANNEX 1: Organization Chart of Ministry of Education and Higher Education

ANNEX 2: Candidate Sites for the Project and Priority

ANNEX 3: Facilities Requested by the Palestine side

ANNEX 4-1: The Japan's Grant Aid for Community Empowerment

ANNEX 4-2: Flow of Funds for implementation under the Japan's Grant Aid for Community Empowerment

ANNEX 5: Major Undertakings by each Government

ANNEX 6: Implementation Flow of Grant Aid for Community Empowerment

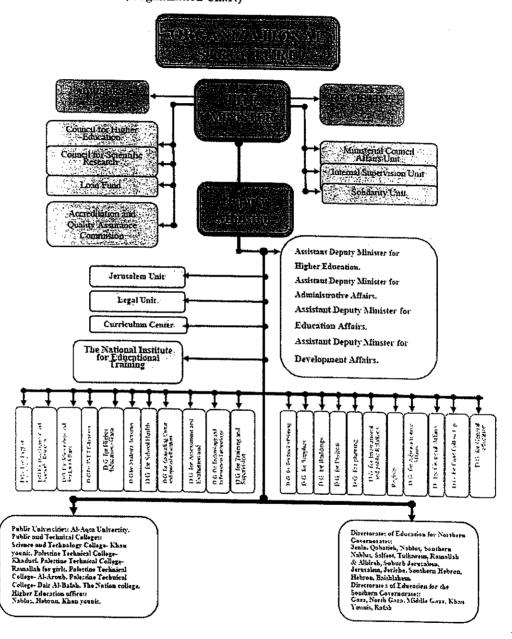
ANNEX 7: Procurement Guidelines for Grant Aid for Community Empowerment





ANNEX 1

1- The organization structure of the Ministry of Education & higher Education (Organization Chart)





ANNEX 2

Candidate Sites for the Project and Priority

Priority	District	Site
1	Nablus	Beita
2	Tubas	Al-Fara'a
3	Jericho	Al-Zubeidat
4	Jericho	Jericho
5	Nablus	Beit Dajan
6		Alternative candidate site
7		Alternative candidate site for
		extension work





Annex 3

Facilities requested by PA Side

Facilities	
Classrooms	
Laboratory	
Library	
Computer room	
Technology laboratory	
Arts and crafts room	
Multi purpose room	
Home Economics Room for girls school	
Teachers' room	
Administrative rooms	
Toilets	
Furniture	
Equipment	
Shade	
Canteen	





Japan's Grant Aid Scheme for Community Empowerment (Tentative)

The Grant Aid scheme provides a recipient country ("the Recipient") with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

The Grant Aid scheme for Community Empowerment ("GACE") aims toward development of communities by empowering their capability as a whole to assure the sustainable development and overcome various threats, thus seeks to enhance human security. Multiple components can be combined to effectively meet the needs of communities. Contractors, suppliers or consultants are not confined to Japanese firms only, and construction can be done based on the local method, which leads to cost reduction.

1. Procedures for GACE

GACE is executed through the following procedures.

Application

(Request made by a recipient country)

Study

(Outline Design Study conducted by JICA)

Appraisal & Approval

(Appraisal by the Government of Japan and Approval by Cabinet)

Determination of

(The Notes exchanged between the Governments of Japan

Implementation

and the recipient country)

Firstly, the application or request for a GACE project submitted by the Recipient is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for GACE. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the Outline Design Study, using Japanese consulting firms.

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's GACE, based on the Outline Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes (E/N) signed by the Governments of Japan and the Recipient.

For the smooth and proper execution of the Grant, JICA is designated by the Government of Japan as an organization responsible for necessary works aiming at expediting the proper execution of the Grant.

Procurement Management Agent is designated to conduct the procurement services of products and services (including fund management, preparing tenders, contracts and so on) for GACE on behalf of the Recipient. The Agent is an impartial and specialized organization and shall render services according to the Agent Agreement with the Recipient. The Agent is recommended to the Recipient by the Government of Japan and agreed between the two Governments in the Agreed Minutes ("A/M").

2. Outline Design Study

1) Contents of the Study

The aim of the Outline Design Study ("the Study"), conducted by JICA on a requested project ("the Project"), is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- (1) Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies and communities concerned of the recipient country necessary for the Project's implementation.
- (2) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme for community empowerment from a technical, social and economic point of view;



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- (3) Confirmation of items agreed upon by both parties concerning the basic concept of the Project.
- (4) Preparation of an outline design of the Project.
- (5) Estimation of cost for the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Outline Design of the Project is confirmed considering the guidelines of Japan's Grant Aid scheme

The Government of Japan requests the Government of the Recipient to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even through they may fall outside of the jurisdiction of the organization in the recipient country actually Therefore, the implementation of the Project is confirmed by all relevant implementing the Project. organizations of the Recipient through the Minutes of Discussions.

2) Selection of Consultants

For smooth implementation of the Study, JICA uses registered consulting firms. JICA selects firms based on proposals submitted by interested firms. The firms selected carry out a Outline Design Study and write a report, based upon terms of reference set by JICA.

The consulting firms to work on the Project's implementation after the Exchange of Notes could be, in principle, of any nationality as long as the Firm satisfies the conditions specified in the tender documents.

3. Implementation of GSCE after the E/N

1) Exchange of Notes (E/N)

GACE is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

2) Procedural details

Procedural details on the procurement of products and services under GACE are to be agreed upon between the authorities of the two governments concerned at the time of the signing of the E/N.

Essential points to be agreed upon are outlined as follows:

- a) JICA is in a position to expedite the proper execution of the program.
- b) The products and services shall be procured and provided in accordance with "Procurement Guidelines for Grant Aid for Community Empowerment".
- c) The Recipient shall conclude an employment contract with the Agent.
- d) The Recipient shall designate the Agent as the representative acting in the name of the Recipient concerning all transfers of funds to the Agent.

3) Focal Points of "Procurement Guidelines for Grant Aid for Community Empowerment"

a) The Agent

The Agent is the organization which provides procurement services of products and services on behalf of the Recipient according to the Agent Agreement with the Recipient. The Agent is recommended to the Recipient by the Government of Japan and agreed between the two Governments in the A/M.

b) Agent Agreement

The Recipient shall conclude an Agent Agreement, within one month after the date of entry into force of the E/N, in accordance with the A/M. The scope of the Agent's services shall be clearly specified in the Agent Agreement.

c) Approval of the Agent Agreement

The Agent Agreement, which is prepared as two identical documents, shall be submitted to the Government of Japan by the Recipient through the Agent. The Government of Japan confirms whether or not the Agent Agreement is concluded in conformity with the E/N and the Procurement Guidelines for Grant Aid for Community Empowerment, and approves the contract.

The Agent Agreement concluded between the Recipient and the Agent shall become effective after the approval by the Government of Japan in a written form.

d) Payment Methods

The Agent Agreement shall stipulate that "regarding all transfers of the fund to the Agent, the Recipient shall designate the Agent to act on behalf of the Recipient and issue a Blanket Disbursement Authorization ("the BDA") to conduct the transfer of the fund (Advances) to the Procurement Account from the Recipient Account."

The Agent Agreement shall clearly state that the payment to the Agent shall be made in Japanese yen from the Advances and that the final payment to the Agent shall be made when the total Remaining Amount become less than 3 % of the Grant and its accrued interest.

e) Products and Services Eligible for Procurement

Products and services to be procured shall be selected from those defined in the E/N and the A/M.

f) Firms

In principle, a Firm of any nationality could be contracted as long as the Firm satisfies the conditions specified in the tender documents.

g) Method of Procurement

In implementing procurement, sufficient attention shall be paid so that there is no unfairness among tenderers who are eligible for the procurement of products and services.

For this purpose, competitive tendering shall be employed in principle.

h) Tender Documents

The tender documents should contain all information necessary to enable tenderers to prepare valid offers for the products and services to be procured by GACE.

The rights and obligations of the Recipient, the Agent and the Suppliers of the products and services should be stipulated in the tender documents to be prepared by the Agent. Besides this, the tender documents shall be prepared in consultation with the Recipient.

i) Pre-qualification Examination of Tenderers

The Agent may conduct a pre-qualification examination of tenderers in advance of the tender so that the invitation to the tender can be extended only to eligible firms. The pre-qualification examination should be performed only with respect to whether or not the prospective tenderers have the capability of accomplishing the contracts concerned without fail. In this case, the following points should be taken into consideration:

- (1) Experience and past performance in contracts of a similar kind
- (2) Property foundation or financial credibility
- (3) Existence of offices, etc. to be specified in the tender documents.

j) Tender Evaluation

The tender evaluation should be implemented on the basis of the conditions specified in the tender documents.

Those tenders which substantially conform to the technical specifications, and are responsive to other stipulations of the tender documents, shall be judged in principle on the basis of the submitted price, and the tenderer who offers the lowest price shall be designated as the successful tenderer.

The Agent shall prepare a detailed tender evaluation report clarifying the reasons for the successful tender and the disqualification and submit it to the Recipient to obtain confirmation before concluding the contract with the successful tenderer.

The Agent shall, before a final decision on the award is made, furnish JICA with a detailed evaluation report of tenders, giving the reasons for the acceptance or rejection of tenders.

k) Additional Procurement

If there is an additional procurement fund after competitive and / or selective tendering and / or

direct negotiation for a contract, and the Recipient would like an additional procurement, the Agent is allowed to conduct an additional procurement, following the points mentioned below:

(1) Procurement of the same products and services

When the products and services to be additionally procured are identical with the initial tender and a competitive tendering is judged to be disadvantageous, the additional procurement can be implemented by a direct contract with the successful tenderer of the initial tender.

(2) Other procurements

When products and services other than those mentioned above in (1) are to be procured, the procurement should be implemented through a competitive tendering. In this case, the products and services for additional procurement shall be selected from among those in accordance with the E/N and the A/M.

1) Conclusion of the Contracts

In order to procure products and services in accordance with the E/N and the A/M, the Agent shall conclude contracts with firms selected by tendering or other methods.

m) Terms of Payment

The contract shall clearly state the terms of payment. The Agent shall make payment from the "Advances", against the submission of the necessary documents from the Firm on the basis of the conditions specified in the contract, after the obligations of the Firm have been fulfilled. services are the object of procurement, the Agent may pay certain portion of the contract amount in advance to the firms on the conditions that such firms submit the advance payment guarantee worth the amount of the advance payment to the Agent.

4) Undertakings required by the Government of the recipient country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as the following:

- a) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the Project,
- b) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities around the sites.
- c) To secure buildings prior to the procurement in case the installation of the equipment,
- d) To ensure all the expense and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
- e) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the verified contracts.
- f) To accord Japanese nationals, whose services may be required in connection with supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

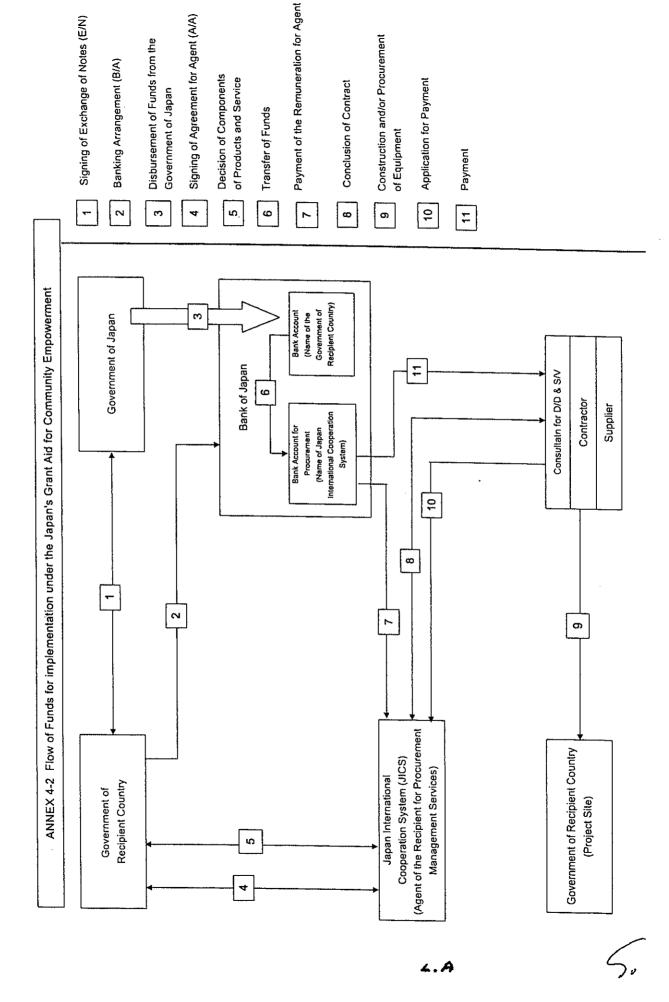
5) "Proper Use"

The recipient country is required to operate and maintain the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

6) "Re-export"

The products purchased under the Grant Aid should not be re-exported from the recipient country.





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No		items	To be covered by Grant Aid	To be covered by PA	
1	To secure land			•	
2	To clear, level and reclaim the site when needed				
3	To construct gates and fences around the site and playground				
4	Toe	anstruct the Parking for	N,A.	N.A.	
5	To construct roads				
	1)	Within the site	N,A,	N.A.	
_	2)	Outside the site		•	
6	Τος	onstruct the building	•	<u> </u>	
7	Тор	rovide facilities for the distribution of electricity, water supply, drainage and other incidental facilities			
	1) Electricity				
_		a. The distributing line to the site		•	
		b. The drop wiring and internal wiring within the site	•		
		c The main circuit breaker and transformer	•		
	2)	Water Supply		<u> </u>	
		a The city water distribution main to the site		•	
		b The supply system within the site (receiving and elevated tanks)	•	<u> </u>	
	3)	Drainage		<u> </u>	
		a The city drainage main (for storm sewer and others to the site)			
		b The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site			
	4)	Gas Supply			
		a. The city gas main to the site	N.A.	N.A.	
		h The gas supply system within the site	N.A.	N.A.	
	5)	Telephone System		N.A.	
		a The telephone trunk line to the main distribution frame/panel (MDF) of the building	N.A.		
		b. The MDF and the extension after the frame/panel	N.A.	N.A.	
_	6)	Furniture and Equipment		N.A.	
		a. General furniture			
		b. Project equipment		•	
В	_	ear the following commissions to the Japanese bank for banking services based upon the B/A		<u> </u>	
				<u> </u>	
	1) Advising commission of BDA				
9	Payment commission To ensure unloading and customs clearance at port of disembarkation in recipient country		•		
	Marine (Air) transportation of the products from Japan to the recipient country				
		Tax exemption and custom clearance of the products at the port of disembarkation			
		Internal transportation from the port of disembarkation to the project site		•	
		ccord Japanese nationals, whose service may be required in connection with the supply	•		
		re products and the services under the verified contract, such facilities as may be necessary for their entry			
\dashv		the recipient country and stay therein for the performance of their work as far as PA has authority		•	
11		Exempl Japanese nationals from customs duties, internal taxes and other fiscal levies which			
	may be imposed in the recipient country with respect to the supply of the products				
				•	
\neg	and services under the verified contracts as far as PA has authority.				
	T			1	
12	 			1 .	
	and	equipment provided under the Grant Aid		•	
13	and To t			•	





ANNEX 6 Implementation Flow of Grant Aid for Community Empowerment

		on of Grant for Community Empowerment
	Conclusion of Exchange of Notes (E/N)	The Government of Recipient Country and the Government of Japan conclude Exchange of Notes (E/N) after approval of the Grant for community empowerment by the Government of Japan.
2	Conclusion of Banking Arrangement (B/A)	The Recipient Government and a bank in Japan (the Bank of Tokyo-Mitsubishi, UFJ) conclude Banking Arrangement (B/A) to open an account in the name of the Recipient Government. The account is called 'Recipient Account'.
3	Disbursement of Funds	Following the E/N and B/A, the total amount of the grant is transferred into the 'Recipient Account'.
4	Conclusion of Agent Agreement (A/A)	As soon as the Exchange of Notes (E/N) is signed, JICS concludes an Agent Agreement (A/A) with the Recipient Government. JICS will explain about procurement procedures, responsibilities of the Recipient Government and JICS, and remuneration of JICS as an Agent.
5	Transfer of the Grant Funds	Before starting procurement services, the grant funds are transferred from the 'Recipient Account' to 'IICS Procurement Account'. JICS then takes full responsibility for managing the grant funds until payment is completed for the procurement services. By signing Blanket Disbutsement Authorization (BDA), the Recipient Government designates JICS as their representative and gives authorities to transfer all the funds under this project on behalf of the Recipient Government.
6	Payment of Agent's Fee	The Recipient Government shall pay JICS Agent's Fee for its services to be rendered pursuant to the Agent Agreement. Agent's Fee shall be paid to JICS from the fund transferred to 'JICS procurement account'.
7	Selection of a Consultant for Detail Design and Supervision	JICS selects a consultant for Supervision in the proper manner based on the research results of the Outline Design Study.
8	Selection of Contractors	JICS selects contractors, utilizing research results provided by the consultant.
	(1) Tender document preparation	JICS prepares tender documents for selecting contractors based on the results of Outline Design Study and information provided by the consultant.
	(2) General Procurement Notice (GPN) and Pre-qualification of Prospective Tenderers	JICS advertises for tenders by means of GPN in widely read newspapers and JICS website. JICS then assesses the eligibility of registered companies for tender.
	(3) Tender and Tender Evaluation	JICS conducts a tender by International Competitive Bidding (ICB) or other appropriate manners. The tender is evaluated by JICS and a successful tenderer is determined based on agreement made among the concerned parties.
	(4) Conclusion of Contract	Contract is concluded between JICS and the successful tenderer.
1)	Procurement of Goods	HCS procures equipment agreed to be procured for the project in the following manner.
	(1) Tender document preparation (2) General Procurement Notice (GPN) and Pre-qualification of Prospective Tenderers (3) Tender and Tender Evaluation	Same as No. 8.
	(4) Conclusion of Contract	
10	School Construction and Delivery of Goods	JICS informs the Recipient Government of the construction and delivery schedule. If any problem should occur, JICS cooperates with the Recipient Government, JICA and Japanese Embassy in order to solve the problem in accordance with the contract. The Recipient Government shall take necessary measures to ensure smooth customs clearance and tax exemption.
11	Payment for Goods and Services	When necessary documents for payment are submitted by a contractant (consultant, supplier, contractor), JICS examines their contents and, if satisfactory, makes payment from the 'JICS Procurement Account' to the contractant.
12	Implementation of Soft Component Program	In case that a soft component program is implemented, JICS selects NGOs or other agencies for its implementation, concludes a contract and makes a payment.





Procurement Guidelines for Grant Aid for Community Empowerment

August, 2006

(Up to October 2008)

Ministry of Foreign Affairs of Japan

PART I. Basic Principles

I. Introduction

These Guidelines set forth the general rules to be followed in the procurement of products and services by the Grant Aid for Community Empowerment (hereinafter referred to as "GACE") which is agreed upon by the Exchange of Notes (hereinafter referred to as "the E/N") between the Government of Japan and the Government of the recipient country (hereinafter referred to as "the Recipient" that is defined in II. 2 below).

The application of these Guidelines shall be stipulated in the Agreed Minutes on Procedural Details (hereinafter referred to as "the A/M") signed together with the E/N between the Government of Japan and the Recipient.

The rights and obligations of the Recipient, procurement agent (hereinafter referred to as "the Agent") and the firm who supplies or provides products and services for GACE (hereinafter referred to as "the Firm" that is defined in II. 5. below) are governed by the contract concluded between the Recipient and the Agent (referred to as "employment contract" in the A/M and hereinafter referred to as "the Agent Agreement"), by the tender documents and by the contracts concluded between the Agent and the Firm, and not by these Guidelines.

II. Parties Concerned

In these guidelines, relations among the Government of Japan, the Recipient, the Agent and the Firm are as follows:

- 1. The Government of Japan is the provider of GACE.
- 2. The Recipient is the beneficiary of the Grant and is responsible for the execution of GACE. The Recipient entrusts the Agent with the procurement of products and services.
- 3. JICA is designated by the Government of Japan as an organization responsible for necessary works aiming at expediting the proper execution of the Grant.
- 4. The Agent is an impartial and specialized organization which provides procurement services of products and services on behalf of the Recipient according to the Agent Agreement with the Recipient. The Agent is recommended to the Recipient by the Government of Japan and agreed between the two Governments in the A/M.
- 5. The Firm is the provider of products and services for GACE in accordance with the contract with the Agent.





Part II. Guidelines for the Use of the Agent

I. General

1. Role of the Agent

The Agent shall conduct the procurement services of products and services for GACE on behalf of the Recipient. The Agent shall render services with due expertise and in a fair and impartial manner to ensure the smooth and proper execution of GACE in order to contribute to fulfilling the purpose of the assistance.

The Agent shall work to maintain rights and interests of the Recipient and maximize the impacts of Japan's assistance. The Agent is also required to pay attention to minimizing the burden of the Recipient.

2. Agent Agreement

The Recipient shall conclude an Agent Agreement within one month after the date of entry into force of the E/N, with the Agent in accordance with the A/M.

After the approval of the Agent Agreement by the Government of Japan in a written form, the Agent shall conduct services referred to paragraph 3 below on behalf of the Recipient.

3. Services of the Agent

The Agent shall conduct the services referred to in the Appendix II of the A/M.

II. Approval of the Agent Agreement

1. General

The Agent Agreement, which is prepared as two identical documents, shall be submitted to the Government of Japan by the Recipient through the Agent. The Government of Japan confirms whether or not the Agent Agreement is concluded in conformity with the E/N, the A/M and these Guidelines, and approves the contract.

The Agent Agreement concluded between the Recipient and the Agent shall become effective after the approval by the Government of Japan in a written form.

2. Reference to the E/N

The Agent Agreement shall refer to the E/N as follows: "the Government of Japan executes the Grant Aid for Community Empowerment to the Government of (name of recipient country) in accordance with the E/N signed on (date of signature) between the two Governments".

3. Scope of the Services

The scope of the Agent's services shall be clearly specified in the Agent Agreement. The Agent Agreement with the scope of Agent's services in conflict with the E/N and the A/M shall not be approved by the Government of Japan.

4. Completion of the Services

The Agent Agreement shall clearly state that when the entire amount of the fund transferred from the Recipient's Account in the name of the Recipient at a Bank in Japan (hereinafter referred to as "the Recipient Account") to the Account in the name of the Agent (hereinafter referred to as "the Procurement Account") has been paid for the procurement of products and services, or when the remaining amount of the said fund has been transferred to the Recipient Account, the Agent's services shall be regarded as complete.

5. Agent's Fees

The amount and currency or calculations of Agent's fees shall be precisely and correctly stated in the Agent Agreement. The conditions and amount or calculation for additional fees to which the Agent is entitled shall be clearly stated.

6. Approval of the Agent Agreement

The Agent Agreement shall clearly state that it shall become effective after the approval by the Government of Japan in a written form.

7. Payment Methods

The Agent Agreement shall stipulate that "regarding all transfers of the fund to the Agent, the Recipient shall designate the Agent to act on behalf of the Recipient and issue a Blanket Disbursement Authorization (hereinafter referred to as "the BDA") to conduct the transfer of the fund (hereinafter referred to as "Advances") to the Procurement Account from the Recipient Account."

The Agent Agreement shall clearly state that the payment to the Agent shall be made in Japanese yen from the Advances and that the final payment to the Agent shall be made when the total Remaining Amount become less than 3 % of the Grant and its accrued interest.

8. Force Majeure

The Agent Agreement shall contain the clause stipulating "failure on the part of the Agent to fulfill obligations under the Agent Agreement would not be considered a default if such a failure is the result of an event of force majeure defined in the conditions of the Agent Agreement."

9. Responsibilities and Obligations of the Recipient

The Agent Agreement shall clearly state the responsibilities and obligations of the Recipient in accordance with the E/N.

10. Amendment of the Agent Agreement





Procurement Guidelines of

the Grant Aid for Community Empowerment (Up to October 2008)

If an amendment of the Agent Agreement is required, the amended Agent Agreement shall clearly state that:

- (1) all the clauses except that which is amended, remain unchanged.
- (2) the amendment of the contract shall become effective only after the approval by the Government of Japan in a written form.

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Part III. Guidelines for the Procurement of Products and Services

I. General

1. Products and Services Eligible for Procurement

Products and services to be procured shall be selected from those defined in the E/N and the A/M.

The guidelines issued by the Agent shall be applied to the selection of consultants (persons or juridical persons including universities, NGOs, and others with expertise and experience) necessary for implementation of the projects in the Grant Aid.

2.Firms

In principles, a Firm of any nationality could be contracted as long as the Firm satisfies the conditions specified in the tender documents.

3. Misprocurement

The Government of Japan requires that, under contracts funded by the Grant, tenderers and Firms observe the highest standard of ethics during the procurement and execution of such contracts. In this regard, the Government of Japan shall demand that the Recipient and the Agent shall reject a tender if it determines that the tenderer has engaged in corrupt or fraudulent practices in competing for the contract in question. The Government of Japan shall recognize a Firm as ineligible, for a period determined by the Government of Japan, to be awarded a contract funded by the Grant if it at any time determines that the Firm has engaged in corrupt or fraudulent practices in competing for, or in executing any other contracts funded by the Grant or other Japanese ODA.

When the authorities concerned of the Government of Japan decide to impose against a firm such administrative sanctions as debarment, exclusion of goods manufactured, etc., from Japanese governmental procurement, the Government of Japan may ask the Recipient and the Agent to exclude the goods manufactured by the sanctioned firm from the procurement under the Graut, for the period of the sanctions by such authorities concerned of the Government of Japan.

II. Procurement Procedures

1. Transfer of the fund

The Agent shall take necessary measures for transferring the fund necessary for the procurement of products and services from the Recipient Account to the Procurement Account prior to the procurement procedures (The fund transferred to the Procurement Account is called "the Advances").

2. Method of Procurement

(1) Competitive Tendering

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In implementing procurement, sufficient attention shall be paid so that there is no unfairness among tenderers who are eligible for the procurement of products and services.

For this purpose, competitive tendering shall be employed in principle.

(2) Other Procurement Methods

If competitive tendering is deemed inappropriate or impractical due to any of the following special situations, the Agent is permitted to proceed with procurement on selective tendering², international shopping³ or direct contracting⁴:

- When spare parts or accessories, etc. for existing equipment or equipment manufactured by specified manufacture are procured (In this case direct contracting is expected).
- 2) When there are adequate reasons to maintain uniformity and continuity of the products and services provided under an existing contract (In this case direct contracting is expected).
- 3) When the number of firms to satisfy the conditions is limited (In this case selective tendering or international shopping is expected).
- 4) When it is quite doubtful that the prospective tenderers would be interested in participating in competitive tendering, and thereby the advantages of competitive tendering would be outweighed by the administrative burdens involved (In this case selective tendering or international shopping is expected).
- 5) Part or all of the tender procedure was not successfully completed and re-tendering is implemented (In this case selective tendering or international shopping is expected).
- 6) When emergency procurement is required for the assistance for natural disasters or humanitarian assistance.
- 7) When consultants are to be selected (In this case, competitions among contents of Technical Proposals or direct contracting with the consultant recommended by JICA is expected)⁵

When procurement method other than competitive tendering are employed, the Agent shall

Competitive tendering is a procurement method in which tender opportunity is publicized and open to all potential tenderers who are qualified for the tender, and the contract is awarded to the tenderer who offers the most advantageous conditions for the contracting entity.

² Selective tendering is a form of competitive tendering based on a direct invitation of tenderers without an initial tender publicity, according to certain qualifications obtained from several tenderers to ensure competitive prices.

³ International shopping is a contract method based on the comparison of quotations obtained from several firms to ensure competitive prices.

⁴ Direct contracting is a contract method based on negotiation directly with a firm before contracting.

⁵ Ways of selecting consultants are described in the guidelines issued by the Agent.

implement procedures in such a manner as to comply with the competitive tendering procedures described in these Guidelines to the fullest possible extent, in order to ensure the transparency of the selecting procedures.

(3) Additional Procurement

If there is a balance in the Procurement Account including accrued interest after the selection of firms, and the Recipient would like an additional procurement, the Agent is allowed to conduct an additional procurement, following the points mentioned below:

1) Procurement of the same products and services

The additional procurement may be implemented by a direct contracting with the successful tenderer of the initial tender when a competitive tendering is judged to be disadvantageous or uneconomical in such cases where the products and services to be additionally procured are identical with the initial tender and also the quantity to be additionally procured is limited, or there was no other participants than the successful tenderer in the initial tender. When a direct contracting with the same firm is not necessarily advantageous or appropriate in such case where a portion of the balance is relatively large, firms shall be selected through a new tendering procedure.

2) Other procurements

When products and services other than those mentioned above in (1) are to be procured, the procurement should be implemented through a competitive tendering. In this case, the products and services for additional procurement shall be selected from among those in accordance with the E/N and the A/M.

3. Size of Tender Lot

If a possible tender lot may be technically and administratively divided and such a division is likely to result in the broadest possible competition, the tender lot should be divided into two or more. On the other hand, in the interest of obtaining the broadest possible competition, any one lot for which a tender is invited should, whenever possible, be of a size large enough to attract tenderers.

4. Tender Conditions

The Agent shall fully study and consider technical specifications, construction period, required technical standards, prices, manufacturing, transportation, trade regulations, etc. regarding goods and services to be procured and finalize appropriate tender and Procurement Conditions after obtaining confirmation by the Recipient. Also, the price expected for the procurement (referential price) shall be set in advance for reference in the selection of firms.

5. Tender Publicity

Tender Publicity shall be carried out in an appropriate manner so that all qualified and

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interested tenderers shall have fair opportunity to learn about and participate in the tender.

The tender notice should be publicized at least in a newspaper of general circulation in the recipient country (or neighboring countries) or in Japan, and in the easily accessible webpage operated by the Agent. The main items to be contained in the public announcement are as follows:

- (1) Name of the Grant
- (2) Names of products and services to be procured
- (3) Name of the Agent and contact information including a location of its webpage (written as an Agent for the Recipient)
- (4) Required qualifications of tenderers
- (5) Other relevant information considered to be necessary for firms to determine whether to participate in the tender

The Agent is only required to publicize information from (1) to (3) above in the newspapers if other details including (4) and (5) above are advertised on the webpage of the Agent.

6. Language

The tender invitation, tender documents and contracts should be prepared in English, French or Spanish.

III. Tender Documents

- 1. General
- (1) The tender documents should contain all information necessary to enable tenderers to prepare valid offers for the products and services to be procured under GACE.
- (2) The rights and obligations of the Recipient, the Agent and the Firms of the products and services should be stipulated in the tender documents to be prepared by the Agent. The tender documents shall be prepared in consultation with the Recipient.
- (3) The tender documents shall clearly state that " the Government of Japan shall extend Non-Project Grant Aid to the Government of (name of recipient country) in accordance with the E/N signed on (date of signature)."
- (4) The tender documents shall clearly state that "The Government of Japan requires that, under contracts funded by the Grant, tenderers and Firms observe the highest standard of ethics during the procurement and execution of such contracts. In this regard, the Government of Japan shall demand that the Recipient and the Agent shall reject a tender if it determines that the tenderer has engaged in corrupt or fraudulent practices in competing for the contract in question. The Government of Japan shall recognize a Firm as ineligible, for a period determined by the Government of Japan, to be awarded a contract funded by the Grant if it at any time determines that the Firm has engaged in corrupt or fraudulent practices in competing for, or in executing any other contracts funded by the Grant or





other Japanese ODA.

When the authorities concerned of the Government of Japan decide to impose against a firm such administrative sanctions as debarment, exclusion of goods manufactured, etc., from Japanese governmental procurement, the Government of Japan may ask the Recipient and the Agent to exclude the goods manufactured by the sanctioned firm from the procurement under the Grant, for the period of the sanctions by such authorities concerned of the Government of Japan."

2. Contents of the Tender Documents

The tender documents should consist of the following documents:

- (1) Instruction to Tenderers
- (2) Procurement Conditions
- (3) Form of the tender
- (4) Draft of the contract

If a fee is charged for the tender documents, it should be reasonable and reflect the cost of implementation of the tender procedure.

- 3. Major Items Related to the Instruction to Tenderers
- (1) The instruction to tenderers should clearly describe the procedure for question & answers, and correction regarding the tender documents, tender procedures, tender evaluations, and the other relevant issues of the tendering process.
- (2) The instruction to tenderers should clearly describe the products and services to be procured, qualifications required of tenderers, existence of local agents, elimination of disqualified firms from the tender, eligible source countries, place and date of the delivery, insurance, transportation, bond, warranty and other pertinent items.
- (3) The instruction to tenderers should clearly describe that the tender price shall be stated in figures and words as firm and final, and if there is a difference between the price in words and that in figures, the price in words is deemed correct.

4. Procurement Conditions

(1) Clarity and Accuracy of Conditions

The Procurement Conditions should specify clearly and in detail the services to be performed, the products and services to be supplied and the relevant terms such as contents of the products and services, technical specifications, the place of delivery, etc.

The Procurement Conditions should identify the main factors or criteria to be taken into account in evaluation and comparison of tenders. The Procurement Conditions should be prepared so as to secure the broadest possible competitive tendering.

(2) Impartiality of the Technical Specifications

The technical specifications supplied with Procurement Conditions should be based on the



related characteristics and required capacities of the products and services to be procured.

Making reference to trademark names, catalogue numbers or similar classifications should be avoided unless in the case of the procurement of particular spare parts, etc.

(3) Standards

In the event that specifications require products to comply with industrial standards, specifications in the tender document should state that the products meeting the Japan Industrial Standards (JIS) or other internationally accepted standards, such as ISO, which insure an equal or higher quality than the standards mentioned shall also be accepted.

5. Forms of Tender

The following forms of tender should be clarified: 1) tender qualification certificates, 2) tender specifications and 3) the tender price.

6. Draft of the Contract

The draft contract should clearly state "the contract terms" such as "the rights and obligations of the Recipient, the Agent and the firm, etc." and the following items:

- (1) Terms of payment
- (2) Warranty period
- (3) Performance bond
- (4) Non-performance of the contract
- (5) Force majeure
- (6) Settlement of disputes

IV. Implementation of Tender

1. Preparatory Period for the Tender

The allowable period for the preparation and submission of the tender should be determined with due consideration to the particular circumstances related to GACE in the recipient country and the scale and complexity of the tender lots. Sufficient period before the date of tender should be allowed from the date when the documents are made available for potential tenderers.

2. Guarantee for the Tender

The Agent may request that the tenderers submit bid bond (e.g. bank guarantees) for the tender. The amount of the bid bond, however, should not be so high as to discourage potential tenderers. The bid bonds submitted from the unsuccessful tenderers should be returned immediately after the award of the contract.

3. Questions and Answers regarding the Tender Documents

The Agent, for the purpose of the smooth implementation of the tender, should accept

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Procurement Guidelines of

the Grant Aid for Community Empowerment (Up to October 2008)

questions about the tender documents from the purchasers of the documents and provide answers to the questions, in accordance with the following points:

- (1) A reasonable period should be set, respectively for accepting questions and providing answers to those questions.
- (2) The answers should be given to all those who have purchased the tender documents well in advance of the date of tender so that the prospective tenderers can take proper measures.

4. Correction and Alteration of the Tender Documents

Any additional information, supplementary explanations, correction of errors and alterations related to the tender documents should be notified to all those who have purchased the tender documents well in advance of the date of tender so that prospective tenderers can take proper measures.

- 5. Pre-qualification Examination of Tenderers
- (1) The Agent may conduct a pre-qualification examination of tenderers in advance of the tender so that the invitation to the tender can be extended only to eligible firms.
- (2) The pre-qualification examination should be performed only with respect to whether or not the prospective tenderers have the capability of accomplishing the contracts concerned without fail.
- (3) In this case, the following points should be taken into consideration:
 - 1) Experience and past performance in contracts of a similar kind
 - 2) Property foundation or financial credibility
 - 3) Existence of local offices, etc. to be specified in the tender documents
- 6. Tender Procedures
- (1) The tender documents should clearly indicate the deadline of the date and time for accepting the tendering as well as the date and place for opening the tender.
- (2) The tenderer shall be instructed to submit the following necessary tender documents:
 - 1) Tender qualification certificates
 - 2) Tender specifications
 - 3) Tender price
- (3) All tenders should be opened in the presence of the Agent and tenderers or their representatives at the fixed date, time and place. The presence of tenderers is not requirement and tenderers who do not attend the tender opening shall not be disadvantaged in the respect of selection procedure.
- (4) Any tender submitted after the specified deadline is not acceptable as a valid tender.
- (5) In opening tenders with the attendance of tenderers, the name of each tenderer and the tender price concerned should be read aloud and recorded.



- 7. Supplementary Explanation and Modification of the Tender during Evaluation
- (1) No tenderers shall be permitted to modify the contents of the tenders after the tenders have been opened.
- (2) The Agent may request any tenderers to make a supplementary explanation but not permitted to request them for a substantial modification of the contents of the tenders during tender evaluation.

8. Confidentiality of Tender Process

Until notification of the award has been sent to the successful tenderer, the Recipient and the Agent shall not disclose to the tenderers and to other people who are not officially concerned with the tender procedures, any information on the examination of the tenders, supplementary explanations and evaluations, or any information related to the recommendation of a successful tenderer.

9. Examination of Tenders

The Agent shall examine the following items with regard to the submitted tenders:

- (1) Serious errors in calculation
- (2) Attachment of requested documents
- (3) Attachment of requested certificates
- (4) Attachment of requested guarantees
- (5) Attachment of proper signatures to the documents
- (6) Conformity of the submitted tenders with the instruction of the tender documents

In examining the tenders, if a tender does not substantially conform to the specifications, or contains inadmissible reservations or is otherwise not substantially responsive to the tender documents, it should be disqualified.

After the above examination, each tender that satisfies the conditions should be technically examined for evaluation and comparison, in principle beginning with those submitted from the tenderer with the lowest tender price.

10. Tender Evaluation

- (1) The tender evaluation should be implemented on the basis of the conditions specified in the tender documents.
- (2) Those tenders which substantially conform to the technical specifications, and are responsive to other stipulations of the tender documents, shall be judged in principle on the basis of the submitted price, and the tenderer who offers the lowest price shall be designated as the successful tenderer. In case the selection of successful tenderer solely based on the submitted prices is not appropriate or irrational in the respect of the natures of the products or services to be procured, other elements than the price such as length of





the Grant Aid for Community Empowerment (Up to October 2008) delivery or construction periods, superiority of technical specifications, etc might be considered by qualifying their degrees and evaluated comprehensively together with the price competitiveness. In such cases, method and standard of tender evaluation shall be

clearly explained in the tender documents.

(3) In cases where satisfactory results in the respect of price or other relevant elements, if any, are not offered in the tender, the Agent may negotiate with the most advantageous tenderer (if this fails to obtain satisfactory results, the second ranking tenderer) to try and conclude a satisfactory contract (a contract ad libitum).

(4)If the tender is divided into several lots, the tender evaluation should be performed for each lot.

11. Tender Evaluation Report

The Agent shall prepare a detailed tender evaluation report clarifying the reasons for the successful tender and the disqualification, and submit it to the Recipient to obtain confirmation before concluding the contract with the successful tenderer. The Agent shall submit a detailed evaluation report of tenders to JICA for its information, while the notification of the results to the tenderers will not be premised on the confirmation by JICA.

12. Notification to the results

- (1) The Agent, within the validity period specified in the tender documents, should notify all the tenderers of the results of the tender. In case notification of result within the validity period is not possible, the Agent shall notify all the tenderers of the extension of the period before the expiry of the original period.
- (2)No tenderers shall be required, as a condition to be successful tenders, to bear responsibilities or obligations that are not described in the tender documents.

13. Rejection of Tenders and re-tender

- (1) The Agent shall not implement the re-tendering with the same specifications merely for the purpose of reducing the price except when the lowest tender price has exceeded the referential price. The rejection of all tenders may only be justified in the following cases:
 - 1) Successful tender was not given even after the result of negotiation with the advantageous tenderers in such case where offer prices extremely exceed the referential price.
 - 2) All tenders do not comply with the tender documents as a result of the examination and evaluation of the tenders.
 - 3) It is clear that competition is impeded in the process.
 - 4) There is a rational reason to believe that the aim of procurement shall not be achieved by continuing the ongoing tender procedure.
- (2) In case all the tenders are to be rejected and the re-tender to be called, the Agent should examine the causes and consider revising the specifications and other conditions specified

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in the original tender documents as well as procurement methods.

V. Conclusion of the Contract

1. General

In order to procure products and services in accordance with the E/N and the A/M, the Agent shall conclude contracts with firms selected by tendering or other methods. If more than one lot is awarded to the same contractor, the contracts may be combined into one.

2. Reference to the E/N

The contract shall clearly state that "the Government of Japan executes (name of grant aid) the Grant Aid to the Government of (name of recipient country) in accordance with the E/N signed on (date of signature) between the two Governments".

3. Contents of the Products and Services

The contract shall clearly state the contents of the products and services to be procured. The contract with the contents of the procurement of products and services which are not covered by the E/N shall not be concluded.

4. Contract Price

The amount of all contract prices including the Agent's services shall not exceed the Grant and its accrued interest.

Each contract price shall be precisely and correctly stated in words and figures side by side. If there is any difference between prices in words and those in figures, the prices in words are considered to be correct.

5. Terms of Payment

The contract shall clearly state the terms of payment. The Agent shall make payment from the "Advances", against the submission of the necessary documents from the Firm on the basis of the conditions specified in the contract, after the obligations of the Firm have been fulfilled. When the services are the object of procurement, the Agent may pay certain portion of the contract amount in advance to the firms on the conditions that such firms submit the advance payment guarantee worth the amount of the advance payment to the Agent.

6. Warranty

The contract shall clearly state the contents and the period of warranty if warranty is provided to products and services to be procured from the providers of such products and services.





7. Performance Guarantee

The Firms may be requested to submit performance guarantees. Such a performance guarantee shall be of an appropriate amount, and it shall be returned immediately after delivery of the products and completion of all services.

8. Non-performance of the Contract

The contract shall clearly state that if the performance of a contract by the Firm is delayed from the contracted period of execution or results in non-performance due to other reasons including bankruptcy, etc., the Agent is permitted to claim the payment of indemnities, forfeiture of the Performance Guarantee, or cancellation of the contract against the Firm.

9. Force Majeure

The contract shall contain a clause to the effect that failure on the part of the Firm to fulfill obligations under the contract would not be considered a default if such failure is the result of an event of force majeure as defined in the terms of the contract.

10. Settlement of Disputes

The contract shall contain clauses dealing with the settlement of disputes.

11. Responsibilities and Obligations of Each Party

The contract shall clearly state the responsibilities and obligations of the Recipient, the Agent and the Firms.

12. Applicable Law

The contract shall clearly state the applicable law by which the contract is governed and interpreted.

13. Effectuation of the Contract

The contract shall become effective only after the signing of the contract between the Agent and the Firm.

14. Reporting to JICA

The Agent shall submit the copy of the contract with the Firm to JICA for its information.

15. Amendment of the Contract

If an amendment of the contract is required, the Agent, obtaining the consent of the Recipient in advance, shall conclude a contract for the amendment with the Firm. The amended contract shall clearly state that "All clauses except that which is or are amended, remain unchanged". Also, the Agent shall submit the copy of the amended contract to JICA

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for its information.

16. Announcement of Results of contracts

The Agent shall, as soon as the conclusion of contracts, announce information on the contract such as name of item, name of firm, amount of contract and date of contract on the webpage of the Agent.





(2) Explanation of Draft Report

MINUTES OF DISCUSSIONS

ON

THE OUTLINE DESIGN STUDY ON THE PROJECT FOR ESTABLISHMENT OF NEW SCHOOLS IN THE WEST BANK (EXPLANATION ON DRAFT REPORT)

In May 2008, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched an Outline Design Study Team on the Project for Establishment of New Schools in the West Bank (hereinafter referred to as "the Project") to the Palestinian Authority (hereinafter referred to as "PA"), and through (scussion, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the study.

In order to explain to and to consult with PA the components of the draft report, JICA sent the Draft Report Explanation Team (hereinafter referred to as "the Team"), which was headed by Mr. Tsutomu KOBAYASHI, Senior Representative, JICA Palestine Office to PA and was scheduled to stay in the West bank from October 10, 2008 to October 20, 2008.

As a result of discussions, both parties have confirmed the main items described in the attached sheets.

Ramallah October 19, 2008

Mr. Tsutomu KOBAYASHI

Leader.

Outline Design Study Team

Japan International Cooperation Agency

Ramie M. alame

Ms Lamis M Alami

Minister

Ministry of Education and Higher Education

Palestinian Authority

Dr. Cairo Arafat

Director General

Ministry of Planning

Palestinian Authority



ATTACHMENT

1. Contents of the draft report

PA side agreed and accepted in principle the contents of the draft report explained by the Team.

2. Japan's Grant Aid Scheme

PA side understood the Japan's Grant Aid Scheme and the necessary measures to be taken by PA side described in Annex 5 of the Minutes of Discussions signed by both parties on May 18, 2008.

The Team explained the new Grant Aid system for Community Empowerment under the renewed JICA effective on October 1 2008, the respective roles of concerned authorities and the flow of funds for implementation as described in ANNEX 4. PA side understood its explanation.

3. Final Report

JICA will complete the final report in accordance with the result of discussions and forward it to PA side around March 2009.

4. Sites and Components of the Project

Both sides agreed that sites and components of the project are prioritized as described in ANNEX 1. The list will be revised in consultation with each other taking into consideration the priorities of PA side on necessary after the conclusion of the Exchange of Notes.

5. Responsible and Implementing Organization

The responsible and implementing organization of the Project is the Ministry of Education and Higher Education (MEHE).

6. Taxes Exemption

The Ministry of Education and Higher Education (MEHE) will provide the consultants and contractors being concerned with the project at implementation stage with possible facilities regarding the exemption and/or refund of VAT in cooperation with the Ministry of Finance.

7. Other relevant issues

7-1. Site preparation works to be covered by the PA side

PA side agreed to demolish the existing building at Beita school site before the commencement of construction by Japanese side.

The Team explained that site preparation works such as land development, construction of the retailing walls will be undertaken by Japanese side. PA side understood that this is an exceptional measure to the Japan's grant Aid scheme.

7-2. Exterior works to be covered by the PA side

The Team explained that exterior works such as fences, gates and pavement will be undertaken by Japanese side. PA side understood that this also is an exceptional measure to the Japan's grant Aid scheme.

PA side agreed to plant trees and flowers in the green area at each school after completion of the construction.

7-3. Maintenance, Renewal of Computer Lab Equipment

PA side agreed that the maintenance and renewal of computer lab equipment provided by Japanese side shall be undertaken by PA side

7-4. Confirmation of Land-Use Rights

The Team confirmed that PA side has already obtained and delivered to the Team the legal documents concerning the land ownership for all the sites.

7-5. Allocation of necessary budget and personnel

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LA PA

PA side agreed to allocate enough budget and personnel (teachers and general staff) to properly operate and maintain the facilities and equipment covered by the Project.

7-6. Method of Procurement

(1) Selection of the Contractors and the Suppliers

PA side strongly insisted again on applying national competitive bidding procedure. The Team understood the organized and strict tender system in Palestine. The Team replied that JICA shall discuss the procedure requested by PA side with concerned parties of Japanese side and will inform PA side of the final decision.

(2) Selection of the Construction Supervision Consultant

PA side asked the possibility of selecting a local consultant as a prime consultant for construction supervision work. The Team explained that JICA shall recommend to PA side the Japanese consultant who conducts Outline Design Study Survey as a prime consultant for supervision in accordance with the Grant Aid for Community Empowerment scheme. PA side understood the explanation.

7-7. Shade for Jericho Boy's School

PA side requested the Team to enlarge the size of the Shade for Jericho Boy's School up to about 150 m² due to extremely hot climate in Jericho area. The Team accepted PA's request and replied that JICA shall discuss its request with concerned parties of Japanese side and will inform PA side of the final decision.

7-8. Confidentiality of the Project Cost Estimation

Both sides agreed that the Project Cost Estimation should never be duplicated or released to any outside parties before signing of all the Contracts for the Project. PA sides understood that the Project Cost Estimation attached as ANNEX 3. is provisional and is subject to change.

7-9. Confidentiality of the Contents of the Draft Report

Both sides agreed that the contents of the draft report should be kept confidential, be dealt with carefully and never be disclosed to any third parties.

7-10. Contingency

PA side raised its concern regarding compensation of both parties of the construction contracts in case of fluctuation of exchange rate of the currency of the contract against NIS and fluctuation of Palestinian construction price index according to decision of PA cabinet. PA side requested to take this into account in calculating the construction budget and put contingency item in the cost estimation table.

The Team replied that it's not allowed to have contingency budget in Japan's Grant Aid for Community Empowerment scheme and promised to have further discussion with concerned parties in Japan to cope with this issue.

7-11. Other

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During a meeting with MOP officials, the team re- explained the modality of implementation for this project and the necessity of the items of the Japanese consultants mentioned in the cost estimation table for the proper implementation of the Project. PA side requested that an evaluation of the approach supported by JICA which has high technical assistance costs for international consultants will be reviewed in order to identify the implementation methods with more effective cost, national ownership to be adapted in future endeavors. The Team understood its request and accepted to convey this PA's special requests to the Government of Japan.

ANNEX 1.: Sites and Components of the Project ANNEX 2.: Undertakings to be borne by PA side

ANNEX 3.: The Project Cost Estimation

ANNEX 4.: Flow of Funds for implementation

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Project Schools and Components

	OJECT SCHOOL	- на сомр	OHOBIS		
School Name,	Beita	Wadi	Beit	Jericho	Al-
Governorate	Boys	Fara'a	Dajan	Boys	Fara'a
& Grade	School	Girls	Boys	School	Boys
Components		School	School		School
	Nablus	Tubas	Nablus	Jericho	Tubas
	1-8	6-12	1-12	5-12	10-12
Facility Components	·				······································
No. of Classrooms	16	16	12	16	9
Library	1	1	0	1	1
Administration Unit	1	1	0	1	1
Teachers Room	1	1	1	1	1
First Aid	1	1	1	1	1
Social Worker Room	1	1	1	1	1
Science Lab (General)	0	0	0	0	1
Biology & Chemistry Lab	1	1	0	1	0
Physics & Technology Lab]	1	0	1	0
Arts & Crafts Room	1	1	0	1	1
Computer Lab	1	1	0]	1
General Stores	1	1	0	1	1
Toilets	1	1	1	1	1
Canteen & Shade	1	1	1	1	1
Home Economics Room	0	ı	0	0	0
Furniture and Equipment Con	ponents				
School Furniture	lset	lset	lset	1 set	lset
Computer Equipment	1 set	lset	0	1 set	lset
Educational Media Equipment	1 set	1 set	0	1 set	lset
Science Equipment	l set	l set	0	l set	1set
Home Economics Equipment	0	1 set	0	0	0

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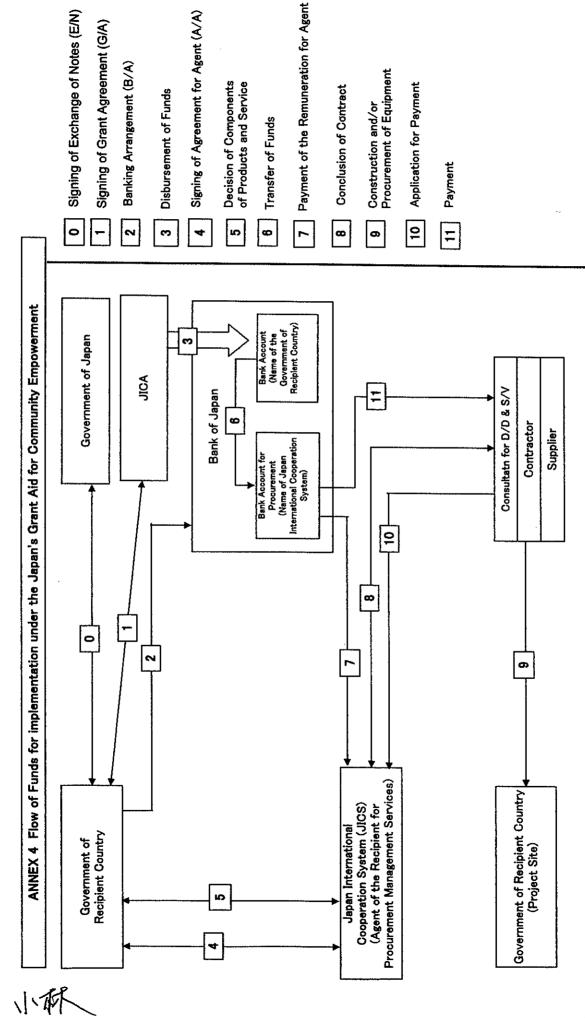
ANNEX 2. Undertakings to be Borne by PA Side

- (1) To provide the Japanese side with information and data related to the Project:
- (2) To obtain the necessary land to implement the Project and secure the rights for MEHE to construct school facilities;
- (3) To remove obstacles and demolish existing buildings prior to the Project construction;
- (4) To plant flowers and trees in the green areas after the completion of the construction;
- (5) To lead and connect power supplies, water supplies, telephone lines and other incidental facilities to the completed Project facilities;
- (6) To procure additional furniture and equipment necessary for the completed Project facilities except for the basic furniture and equipment included in the Project;
- (7) To secure sufficient staff and budget necessary for the adequate operation, repair and maintenance of the Project facilities constructed within the Project;
- (8) To bear commissions for Blanket Disbursement Authorization, handling charges and other necessary fees related to the banking arrangement with a bank in Japan for receiving the Grant Aid for the Project;
- (9) To provide the consultants and contractors being concerned with the project at implementation stage with possible facilities regarding the exemption and/or refund of VAT in cooperation with the Ministry of Finance;
- (10) To accord all individuals entry into the country and the staying therein, along with such facilities as may be necessary for the performance of their work and whose services may be required in connection with the Project, including the supply of products and services under the procurement management contract and contracts with Procurement Management Agent;
- (11) To ensure that all facilities and products constructed and purchased under the Project will be effectively used and properly maintained under the jurisdiction of MEHE;
- (12) To provide free of charge, for the duration of the construction period and in a vicinity close to the Project site, adequate land space for the storage of supplies and materials and for a site construction office to be used by contractors;
- (13) To grant all the required permits and approvals needed for implementation of the Project;
- (14) To bear all the necessary expenses for the Project not covered by the Grant Aid for Community Empowerment Scheme (including demolition of existing facilities, lead and connection of infrastructure lines, etc.);
- (15) To obtain, in cooperation with and under the guidance of the Procurement Management Agent, all the various necessary permits including those needed prior to construction, and those needed for the use of Project facilities after construction completion;
- (16) To respond promptly to the Procurement Management Agent's requests for decisions and judgments regarding implementation of the Project.

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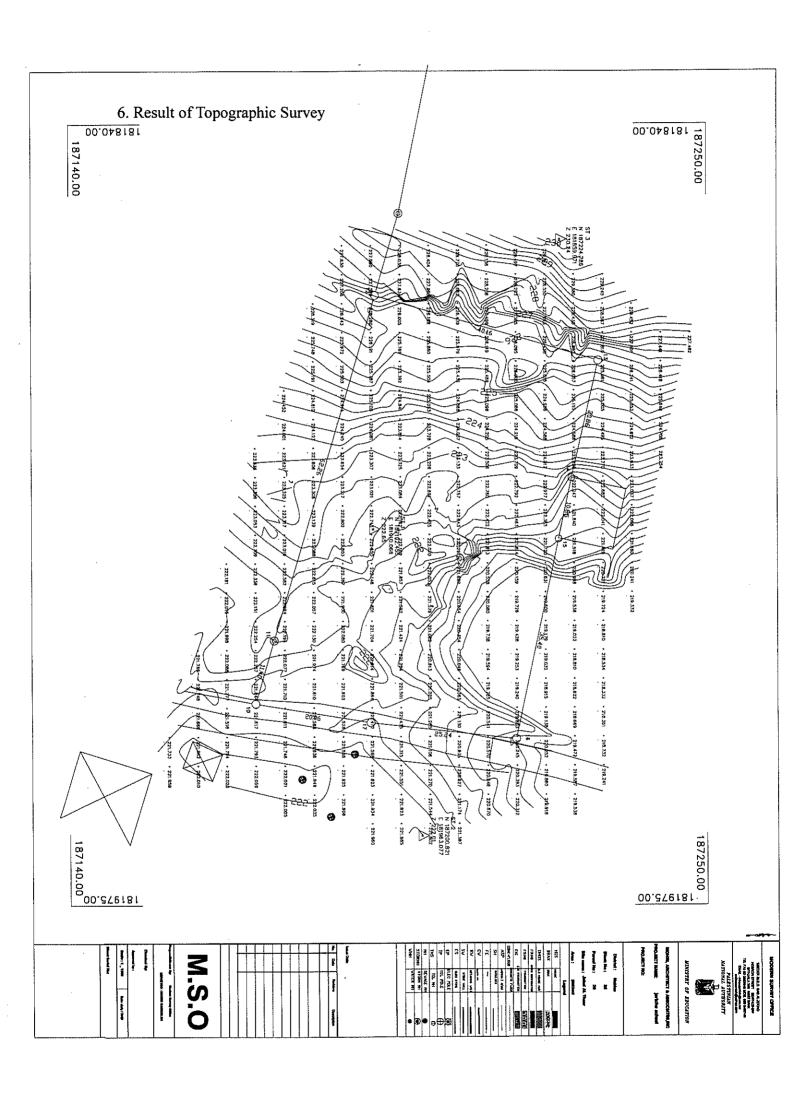
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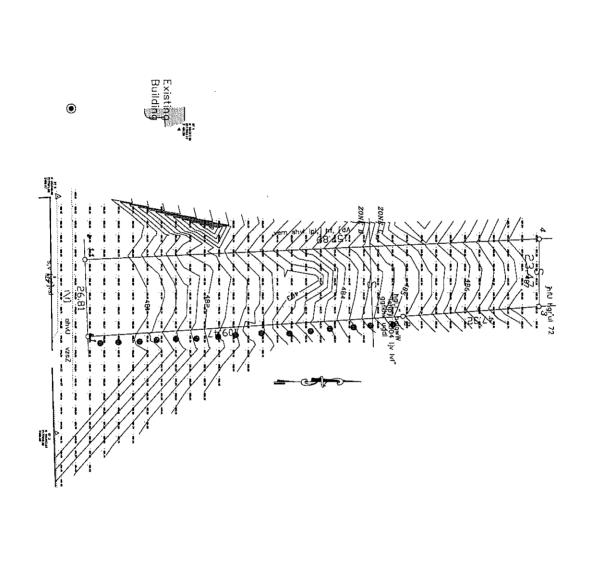


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5. References

No.	Name of the Reference	Data or Book	Original or Xeroxed Copy	Issued BY	Year of Publication
1	DIR Ammar Secondary School (Tender Document)	Electronic Data		EU	
2	Bezzaria Basic Boys School (Tender Document)	Electronic Data		IDB	ı
3	Neileen School (Tender Document)	Electronic Data		AFD	ı
4	Tammoun B. School (Tender Document)	Electronic Data		France	1
5	Tubas B. B. School (Tender Document)	Electronic Data		KfW	ı
9	Al-Hamadallah (Tender Document)	Electronic Data		France	ı
7	Al-Jalazoon (Tender Document)	Electronic Data		KfW	ı
∞	Borqa School (Tender Document)	Electronic Data		IDB	ı
6	Education Statistical Yearbook 2002/2003-2003/4	Printed Book	Original	MEHE	2004
10	Teacher's Education Strategy in Palestine	Printed Book	Original	MEHE	2008
11	Five Year Plan 2007-2011	Electronic Data		MEHE	2008
12	Sonia Plan	Electronic Data		MEHE	2007
13	Science Textbooks for 1-10	Printed Book	Original	MEHE	2005-2007
14	Biology Textbooks for 11-12	Printed Book	Original	MEHE	2005-2007





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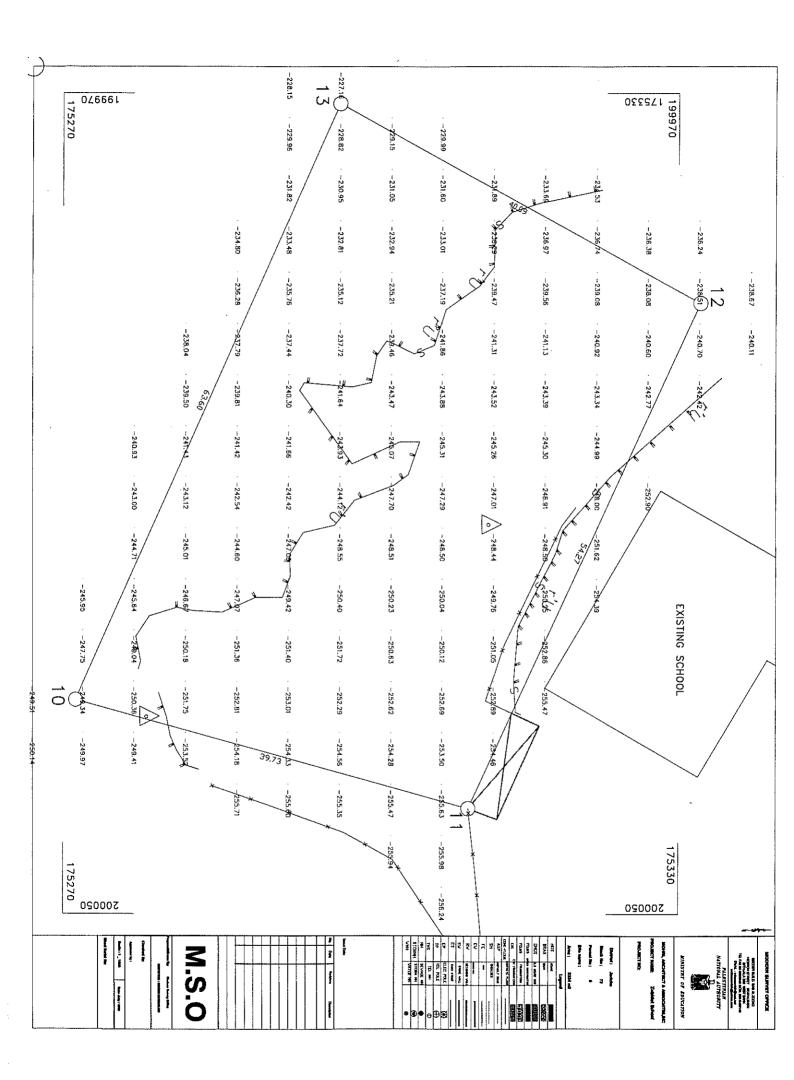
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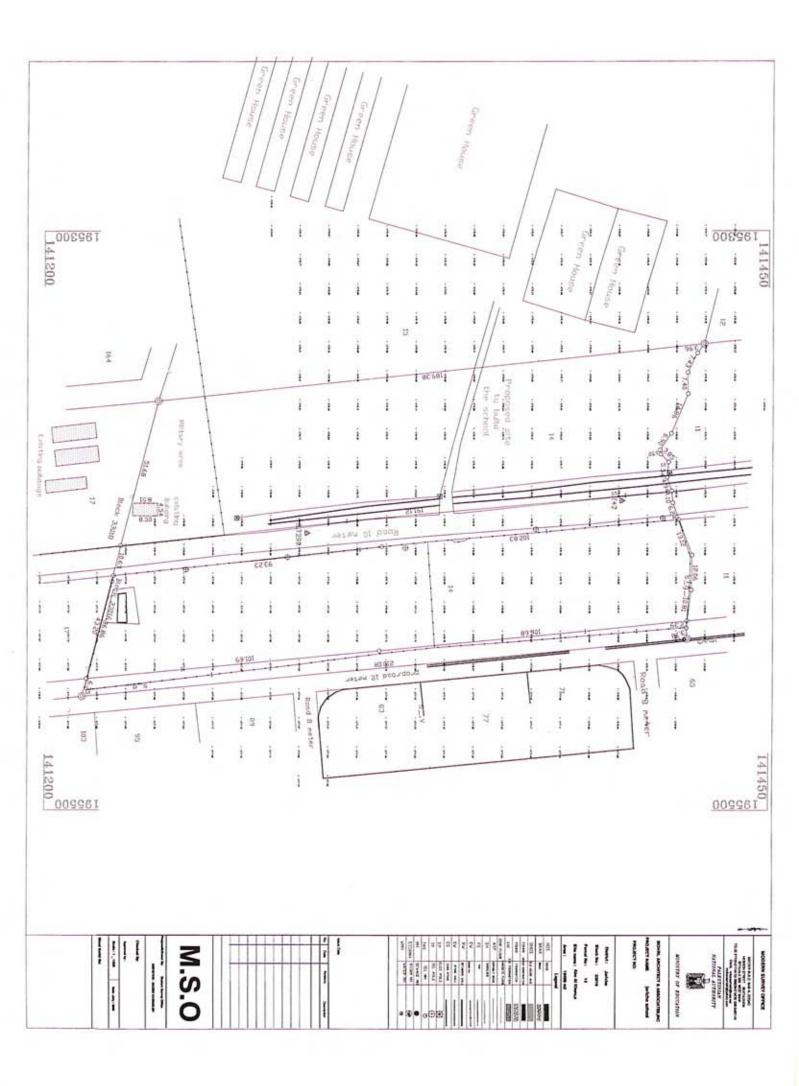
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7. Result of Soil Survey

GEOTECHNICAL SITE SOIL INVESTIGATION REPORT

ESTABLISHMENT OF NEW SCHOOLS IN THE WEST BANK



Prepared for: MOHRI, ARCHITECTS & ASSOCIATES, INC.

Prepared by: HIJJAWI CONSTRUCTION LABS

JULY - 2008

Messrs. MOHRI, Architects & Ass., Inc. Tokyo — Japan

Ref. : SI/271,272,273,276,277,278/A

Date: 25/7/2008

Mr. Hisafumi Michikawa Project Manager

Project - Establishment of New Schools in the West Bank - Palestine Subject - Geotechnical Site Investigation Report

Dear Sir,

With reference to the signed on 16/6/2008 agreement, **Hijjawi Construction Labs** (**HCL**) is pleased to submit this report of the site investigation carried out for the proposed construction sites of the above mentioned project.

The investigation ended up with conclusions and recommendations relevant to the findings. Those, in addition to the laboratory test results and engineering recommendations are herewith attached.

We look forward for further cooperation and would like to take this opportunity to highly considerate your confidence in our laboratories. For any clarification concerning this report, please contact us at your convenience.

Yours sincerely,

Dr. Sami A. Hijjawi General Manager

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1. INTRODUCTION

1.1 GENERAL

This report presents the outcome of the geotechnical site investigation carried out for the proposed construction sites of new schools in Al Fara'a, Wadi Al Fara'a, Beit Dajan, Beita, Jericho and Al Zubeidat.

1.2 PROJECT DESCRIPTION

According to the given information, the soil investigation is required for the proposed construction sites, the area of each is about 5,000 square meters. Each school building will consist of three floors.

1.3 PURPOSE AND SCOPE

Investigation of the underground conditions at a site is prerequisite to the economical design of the substructure elements. It is also necessary to obtain sufficient information for feasibility and economic studies for any project.

For this particular project, and due to the type of proposed structures, which highly depend on the nature of soils, the site investigation becomes of special importance to obtain sufficient information about the geotechnical parameters of the ground. In general, **the purpose of this site investigation** was to provide the following:

- Information to allow the geotechnical consultant to make a recommendations on the type and classification of the soils.
- Sufficient data/ laboratory tests to make settlement and swelling predictions.

- Sufficient information for the structural engineer for the design of most suitable and safe foundations.
- Location of the groundwater level.
- Information regarding compaction properties of the encountered materials.

This was accomplished through the close cooperation of **HCL**'s geotechnical engineer and the technical staff of its Geotechnical Department.

2. FIELD EXPLORATION AND TESTING

2.1 DRILLING

- **2.1.1** The geotechnical investigation program agreed upon with **Hijjawi Construction Labs** to explore the subsurface conditions included the drilling of four boreholes at each site in Al Fara'a, Beit Dajan, Beita, and Jericho: two to a depth of 9m each and two to a depth of 6m each.
- **2.1.2** In Wadi Al Fara'a site, it was agreed upon to make a verification borehole and review of a site investigation report, previously done for the site.
- **2.1.3** For Al Zubeidat school location, a preliminary inspection of the geotechnical conditions was agreed upon due to the difficult topography of the site and the difficult access of drilling and exploration equipment.

The test borings were located in the field by our representative by measuring relative to the property corners and other identifiable landmarks using the provided site plan for each school. The locations of the test borings are shown on the Boring Location Maps for each site.

Soil logs for the test borings shown on the Boring Location Plans are presented in Appendix of this report.

2.2 Sampling

According to the drilling requirements set in the agreement, continuous coring was carried out. For this purpose:

- double tube core barrel was used in rock formations (ASTM D2113),
- thin wall tubes were used for sampling of cohesive undisturbed samples (ASTM D1587),

- split spoon samplers with accessories were used for SPT testing (ASTM D1586),
- the down the hole hammer (DTH) with outside diameter of 100 mm was used to penetrate the formation and collect samples in subsurface layers with loose gravelly formations,

Soil samples were obtained from the test borings and returned to our office for further review and laboratory analyses. The soils observed during logging of the test borings were classified according to the Unified Soils Classification System (USCS), utilizing field classification procedures outlined in ASTM D 2488.

The borings were advanced using a truck mounted, Mobile B-31 drilling rig. Standard Penetration Tests were performed, and representative samples were collected in accordance with ASTM D 1586 sampling procedures.

Depths referred to in this report are relative to the existing ground surface elevations at the time of our field investigation. The surface and subsurface conditions described in this report are as observed at the site at the time of our field investigation.

2.3 FIELD TESTING - STANDARD PENETRATION TEST (SPT)

The Standard Penetration Test (SPT) was carried out in all boreholes (wherever applicable) at 1m interval as required. The test was carried out by means of the 50.8 mm outside diameter split - spoon sampler, which was driven to penetration of 450 mm by repeated blows of a 63.5 Kg monkey falling through 760 mm. The number of blows for the last 300-mm of driving was recorded as the standard penetration number (N-value).

The records from the SPT are given in the borehole logs.

3. LABORATORY TESTING

Representative soil and rock samples were collected from the drilled boreholes, tightly sealed and transported to **HCL**'s Laboratories in Nablus.

3.1 TESTS CARRIED OUT

The following tests were performed to evaluate the engineering properties of the soils and rocks influencing the performance of the proposed structure:

- Natural moisture contents were determined in accordance with ASTM D-2216.
- Grain size distribution (sieve analysis) in accordance with ASTM D-422.
- Atterberg limits (Liquid and Plastic) in accordance with ASTM D-4318. Liquid and plastic limit tests were conducted on the powder of the obtained samples and the plasticity index (PI) was determined.
- Direct shear test in accordance with ASTM D-3080, where three (remolded) identical specimens were sheared under three vertical load conditions and the maximum shear stress in each case was measured. The strength parameters, namely cohesion (c) and angle of internal friction (Ø) were determined from the maximum shear-vs- normal stress plot.
- One dimensional consolidation in accordance with ASTM D--2435,
- Unconfined compression test in accordance with ASTM D-2166.
- Specific gravity and absorption in accordance with ASTM C-127.
- **Test for Unconfined Compressive Strength** of Intact Rock Core Specimens in accordance with **ASTM D-2938**,

- Swelling Potential Analysis An indication of the susceptibility of the
 dayey soil encountered to swelling or shrinkage due to increase or
 decrease in moisture content has been provided by swelling potential
 evaluation. Experimental and analytical evaluation were carried out on
 different samples extracted from boreholes at different depths in <u>Beita</u>,
 <u>Beit Daian and Jericho</u> locations.
- Swelling Pressure Following the identification of the swelling and the
 qualitative and quantitative evaluation of the swelling potential, an
 evaluation of the swelling pressure was carried out. Swelling pressure was
 determined in the one-dimensional oedometer (consolidation apparatus),
 where undisturbed day sample was flooded with water and the load
 required to maintain constant volume change was recorded.

3.2 SUMMARY OF TEST RESULTS

The results of the mentioned above tests are summarized in the attached tables for each location.

4. BEARING CAPACITY ANALYSIS AND FOUNDATION TYPES

The bearing capacity of subsurface materials at the expected foundation levels for each location was calculated utilizing the following three approaches:

4.1 USING SOIL MECHANICS EQUATIONS

The bearing capacity was calculated using the shear test parameters of cohesion and angle of internal friction and the soil density of the specimens extracted from the boreholes. The following well known Terzaghi equation with correction terms suggested by Schultze can be used to calculate the bearing capacity of rectangular foundation of any sides ratio B:L

$$q_{ult} = (1 + 0.3 \text{ B/L}) \text{ CN}_{c} + \gamma_{o} \text{ DN}_{q} + (1 - 0.2 \text{ B/L}) (\gamma_{1} \text{B/2}) \text{ N}_{\gamma}$$

where:

Yo - Unit weight of soil above foundation level in KN/m3.

Y1 - Unit weight of soil below foundation level in KN/m3.

C,Ø - Strength parameters of the soil below foundation level in KN/m² and degrees respectively.

B - Width of foundation in (m)

L - Length of foundation in (m).

 $N_{C'}$ $N_{Q'}$ N_{γ} - Bearing capacity coefficients dependent on the angle of internal friction of the soil below foundation level (dimensionless).

D - Depth of foundation (m).

The bearing capacity was computed by a special computer program using both Terzaghi and Vesic methods. Based on the calculations, the calculated bearing capacity values are given in the table shown below.

4.2 USING THE JORDANIAN CODE'S INSTRUCTIONS

According to the known codes of engineering practice, the bearing capacity of rocks is taken as a percentage of the unconfined compressive strength of rock core samples tested in accordance with ASTM D-2938.

Following the Jordanian Code for Foundations and Retaining Walls (Amman- 1992) [§3/7/1-2], the mentioned percentage is 5% for rocks with RQD \leq 75 % and the bearing capacity should not exceed 10 Kg/cm². Taking the lowest compressive strength value of rock core specimens from the tables with test results for each location (attached to this report), and applying the percentage of 5%, the bearing capacities were calculated.

4.3 USING THE SPT TEST RESULTS

The values of standard penetration numbers (N) were related to allowable bearing pressures using the empirical relationship (curve) established by Terzaghi and Peck.

4.4 RECOMMENDED FOUNDATION TYPES AND BEARING CAPACITIES

Based on the above described methods for bearing capacity analysis, and taking into consideration the site subsurface conditions at each location, the following table summarizes the recommended type and depth of foundations for each school location and the recommended bearing capacity at the proposed foundation level.

A- Shallow Foundations:

	Recomm Found		Bearing	Recommended Bearing		
Location	Туре	Depth (m)	Terzaghi	SPT	Jordanian Code	capacity Value (Kg/cm²)
Al Fara'a	Isolated	1.5	-	-	4.0	4.0
Wadi Al Fara'a	Isolated	1.5	-	-	3,3	3.0
Beita	Assume Isolated	2.0	1.6	1.7	-	2.0 See (B) below

Beit Dajan	Assume isolated	2.0	1.7	1.6	•	See (B) below
Jericho	Assume isolated	2.0	1.5	1.8	-	See (B) below

B- Deep foundations (Beit Dajan, Beita and Jericho):

Whereas the formations within the sites of Beit Dajan, Jericho and mostly Beita consist of compressible clays, we recommend to design the piles and pile groups as friction piles. This will reduce or avoid the detrimental effects of soil volume change (swelling and shrinkage) along the bored depths of the boreholes.

The number, length and bearing capacity of single piles and pile groups can be calculated based on the loads acting from the superstructures of the buildings.

4.5 REVIEW OF WADI AL FARA'A REPORT

The previously prepared report for Wadi Al Fara'a school location (Reference No. 322/A/2007 dated 12/12/2007) was reviewed by our geotechnical engineer, along with the findings of the drilling of a new 6m borehole at the middle of the site. The obtained results of sampling and testing confirm the results given in the mentioned report. Borehole log and summary of test results are given in the attachments to this report.

4.6 INSPECTION (PRELIMINARY INVESTIGATION) OF AL ZUBEIDAT SITE

The main objective of the inspection was to primarily evaluate the soil subsurface conditions and to make general description of the subsurface soil formations.

Observations:

The proposed site is located in a mountainous area in Al Zubeidat and is bordered by an existing school building from the north. The site is steeply sloped to the east with difference in elevation from the street exceeding 15m.

Based on visual examination of the site and the surroundings, especially the location of the existing school on the north of the plot, the soil formation within the area consists mostly of hard and fractured formation of limestone with occasional pockets filled with silty day. The rock is exposed on the surface. Three samples of surface rocks were collected for evaluation (specific gravity and water absorption determination). The results of these are attached in the tables with test results.



General view of rock formations

Vertical cut in the rock formations

The described limestone is suitable to support the building loads on isolated footings with tie beams. Continuous strip footings can also be used.

Conclusions:

- The soil formation consists of limestone.
- The subsurface material is suitable to support the building loads on isolated footings.
- The presumed soil bearing capacity for preliminary design purposes is 4.0 kg/cm².

5. SETTLEMENT ANALYSIS

5.1 Beita, Beit Dajan and Jericho Sites

The settlement of the footings to be built on the existing formations can be calculated using the following elastic theory equation:

$$S = Q_n B I \frac{(1 - \mu^2)}{E}$$

where:

Q_n - Net foundation pressure (Kg/cm²)

B - Width of foundation (m)

μ - Poisson's ratio

E - Deformation modulus (Kg/cm²)

I - Influence factor.

Considering the results of one - dimensional consolidation test carried out on representative undisturbed samples, and assuming $Qn = 2.0 \text{ Kg/cm}^2$, we have:

Location	Qn (Kg/cm²)	B (cm)	μ	E (Kg/cm²)	I	S (cm)
Belta	2.0	200	0.2	140	1.2	3.3
Beit Dajan	2.0	200	0.2	190	1.2	2.4
Jericho	2.0	200	0.2	180	1.2	2.6

The above settlement is the immediate part of final settlement which takes place during application of loading as a result of elastic deformation of the soil without change in water content. This settlement does not consider any compaction or soil improvement that might be carried out prior to the foundation construction.

5.2 Al Fara'a and Wadi Al Fara'a Sites

With footings designed and constructed on the encountered formations and as described in §4 above, the settlement is negligible.

It should be noted that the results and recommendations of this report are solely based on the collected samples from the drilled boreholes on July 6th-21st, 2008 and assuming that the subsurface conditions at the investigated sites do not significantly deviate from those encountered.

Our office should be notified, in writing, immediately after foundation excavation and before the construction of foundations to inspect the excavations and confirm that the required ground is reached and all undesirable and loose materials are removed. The foundation excavation inspections are carried out at separate fees.

6. REFERENCES

- Code of practice for Site Investigations. BS 5930: 1981. British Standards Institution.
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- J.E. Bowles. **Foundation Analysis and Design.** Third edition. McGraw Hill International, 1982.
- M.J. Tomlinson. Foundation Design and Construction. Fourth edition, ELBS, London, 1983.
- R.Peck, W.Hanson, T.Thornburn. Foundation Engineering. 2nd edition, Willey, 1980.
- N. Tsytovich. Soil Mechanics. Mir Publishers. Moscow, 1987.

7. APPENDICES

7. APPENDICES

BOREHOLE LOG

Project		Beit	: Dajan :	School (MOI	HRI Architec	ts & AssJapan)	Locatio	n	Beit	: Daja	n .
Borehole	No.	1		age No.	1/1	Drilling Date	12/7/20	08			
Ground le	vel	0.0	•			Weather	Sunny				
Drili Rig		Mol	oile B-31			Operator	Adnan				
Scale	<u>+</u>	<u>.</u> 9	Ė				USCS			PT	_
(m)	is i	pier Type	Description of soil strata U					(r	to. of 15	blow 15	rs) N
0.0				Re	ddish browi	n silty day	СН				
1.0		L		ļ				28	. 37	45	R
1.0	$\downarrow >$			Granular mi	, poorly gra exture with	ided gravel sand little fines	d GP	7	8	9	17
2.0											
3.0								7	7	8	15
								8	7	8	15
4.0								8	8	9	17
5.0				plastic		vith very little	CL				1/
6.0					pebble	es		9	8	9	17
								8	9	9	18
7.0	-							7	7	8	15
8.0										0	13
9.0								8	7	9	16
10.0											
11.0											
12.0				F	ind of borin	a @ 9m		<u> </u>			
		1			Water R			1		L	I
Level, at v	vhich	wate	er was	encounter		None	Color of w	ater	-		
Water lev							None		•		
Remarks : USCS- Unif R- Refusal	fied So										
Approved	:	Dr.	Sami A	. Hijjawi				- / · · · · · · · · · · · · · · · · · · 			

BOREHOLE LOG

Proje	ct		Beit	: Dajan	School (MO	HRI Archited	ts & AssJapan)	Locatio	n	Beit	: Daja	n		
Bore	hole N	0.	2		Page No.	1/1	Drilling Dat							
Grou	nd lev	el	0.0				Weather	Sunny						
Drill	rill Rig		Mobile B-31		31		Operator	Adnan		SPT				
Sc	ale	٠.	. 0	<u> </u>					T	S	PT			
	n)		Type	Sym	Des	cription o	f soil strata	USCS			blow	7		
									15	15	15	N		
0.0						eddish brow	······································	СН						
					Granular	, poorly gra	aded gravel san	d GP	30	38	42	R		
1.0		\geq	\leq		m	ixture with	little fines		<u> </u>					
		İ							6	6	8	14		
2.0			ı											
		Ī			İ				6	7	8	15		
3.0			ŀ		Brown, n	nedium mo	ist, fine, mediui	m						
		ĺ				c silty day v	with very little	CL	7	7	9	16		
4.0						pebbl	es							
		l							8	8	9	17		
5.0										••				
									7	8	9	17		
6.0														
7.0														
			l											
8.0														
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			1											
10.0														
11.0														
11.0			1											
12.0					_	·	. 0.6							
14.V					<u> </u>	and of borin			<u> </u>			L		
l ascat		. علمان				Water F		Color of						
					encounter ompletion	i cu	None	Color of w	ater	-				
Rema		<u> </u>	. ə. d	rtel O	ompieuvii			None						
USCS.	,				ion System ws)									
Appro	ved :	$\overline{}$	Dr.	Sami <i>i</i>	A. Hijjawi									

BOREHOLE LOG

iround level	3 P a	and No		ts & AssJapan)	Locatio	76 8	1	: Dajai	n	
Scale (m)	0.0	age No.	1/1	Drilling Date	13/7/20	13/7/2008				
Scale (m)	010			Weather	Sunny					
2.0 3.0 4.0 5.0	Mobile B-31			Operator	Adnan					
2.0 3.0 4.0 5.0	8 5 5	_						PT	_	
1.0 2.0 3.0 4.0 5.0	Type Sym- bol	Des	cription of	soil strata	USCS	15	15	blow 15	rs) N	
2.0 3.0 4.0 5.0 7.0		<u> </u>				1.0	1.5	1.5	1	
2.0 3.0 4.0 5.0 7.0		Re	eddish browi	n silty day	CH	26	32	45	R	
3.0 4.0 5.0 5.0		Granular	, poorly gra	ded gravel sand	CD.					
3.0 4.0 5.0 5.0			ixture with I		GP GP	9	8	9	17	
5.0										
5.0						8	8	8	16	
5.0		Brown n	nedium moi	st, fine, mediun						
5.0				vith very little	' CL	9	8	9	17	
7.0			pebble				<u> </u>			
7.0						8	8	9	17	
7.0						8	9	9	18	
7.0					-	8			10	
3.0										
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9.0								ļ		
2.2										
0.0										
1.0										
	,									
2.0		F	end of boring	1 @ 6 m					<u> </u>	
		<u> </u>	Water R		. 1			l	<u> </u>	
evel, at which v	vater was	encounte		,	Color of w	ater	***			
ater level 24hr					None					
emarks :										
SCS- Unified Soil	Classification	on System								
- Refusal (more t		•								
•		-								
pproved :	Dr. Sami A	. Hijiawi		,						

Proje	ect		Beit	Dajan	School (MC	OHRI Archit	ects & AssJapan	Loca	ion	Bei	t Daja	n
	hole N		4	F	age No.	1/1	Drilling Da	te 13/7/	2008			· · · · · · · · · · · · · · · · · · ·
Grou	nd lev	el	0.0				Weather	Sunny	,			
Drill	Rig		Mol	ile B-3	1		Operator	Adnar	1			
Sc	ale	Ė	. 2	<u> </u>							PT	
	n)		Type	Sym	Des	cription	of soil strata	USC		No. of		
0.0	<u>-</u>						T-11-12-14-2-1		15	15	15	N
0.0					Re	eddish bro	wn silty day	СН	24	28	33	R
1.0		\supset	\leq		Grave	l sand mix	ture, little fines	GP		20		-
									8	7	7	14
2.0					Brown r	medium m	oist, fine, mediu	ım.				
3.0						c silty clay	with very little	"" CL	8	8	9	17
						pebl	bles		7	9	9	18
4.0												
<u> </u>		\geq	\leq		Grave	l sand mix	ture, little fines	GP	7	7	8	15
5.0									-	<u> </u>		10
6.0		}							7	8	8	16
							oist, fine, mediu with very little	m CL	6	8	8	16
7.0					piasu	pebl						
8.0									7	7	8	15
									8	9	8	17
9.0				·	-							
10.0												
10.0												
11.0												
40.0												
12.0					E	Ind of bor	ing @ 9m Record					
_evel	, at wi	ich '	wate	r was	encounte		None	Color of	water	-		···········
					mpletion			None				
JSCS	r iks : - Unifie fusal (n				on System vs)							
	ved :	Ī	Dr. S	Sami A	. Hijjawi							

Project	Beita Scho	ol (MOHRI	Architects (k Ass. – Japan)	Locatio	n	Beit	a - Na	blus
Borehole No.	1 F	age No.	1/1	Drilling Date	8-7-200	8			
Ground level	0.0			Weather	Sunny				
Drill Rig	Mobile B-3	1		Operator	Adnan				
Scale 🛓	- B							PT	
(m) E	Type Sym- bol	Des	cription o	f soil strata	USCS			blow	
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10						6	8	8	16
1.0						<u> </u>			
				t, fine deposits o	of CL	7	7	9	16
2.0		SIL	day with	ittle pebbles				<u> </u>	
						6	6	8	14
3.0								ļ <u>.</u>	
4.2					_	6	7	8	15
4.0								<u> </u>	
		Dense o		els, gravel sand-	GC	30	25	35	R
5.0			clay mi	kture				<u> </u>	
						46	55	<u>-</u>	R
6.0								ļ	
								<u> </u>	
7.0								<u> </u>	
8.0									
								ļ	
9.0									
10.0									
	•								
11.0									
									ļ
12.0		<u> </u>	End of borin	-			<u> </u>	<u> </u>	
			Water				1		
Level, at which				None	Color of w	ater	-		
Water level 24h	rs. after o	ompletion			None				
Remarks : USCS- Unified So R- Refusal (more									
Approved :	Dr. Sami /	A. Hijjawi			······································	······································			

Project	Beita Sc	hool (MOHRI	Architects 8	Ass. – Japan)	Locatio	n N	Beit	a - Na	blus
Borehole No.	2	Page No.	1/1	Drilling Date	9-7-200	8 .			
Ground level	0.0			Weather	Sunny				
Drill Rig	Mobile B	3-31		Operator	Adnan				
Scale 🕏	_ 9 <u>-</u> -					_	-	PT	
(m) 8	Type Sym.	ይ Des	cription of	i soil strata	USCS			blow	
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1.0									
3.0		Dry to m	edium moisi	t, fine deposits o	of C	7	8	9	17
2.0				ttle pebbles	" CL		_	_	10
2.0						8	8	8	16
3.0						<u></u>		_	
4.0						7	8	9	17
4.0	- - 							ļ	<u> </u>
						52		-	R
5.0	/								<u> </u>
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/	Mix of c		ers, gravels and	GC	66	-	-	R
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						58	-	-	R
7.0									
						48	53	-	R
8.0	\setminus	De	ense dayey s	silty Gravel	GC			<u> </u>	
						45	49	56	R
9.0		i							
	ŀ					<u> </u>		ļ	
10.0						<u> </u>			
11.0							<u> </u>	ļ	
		<u> </u>							
12.0			End of borin				<u> </u>	<u> </u>	<u> </u>
			Water F		Onlar of				
Level, at which				None	Color of w	ater	<u> </u>		
Water level 24i Remarks :	nrs. after	completion			None	."			
кетагкь :									
USCS- Unified Sc	oil Classific	cation System							
R- Refusal (more	than 50 t	olows)							
Approved :	Dr. San	ni A. Hijjawi							
Privile :			<u> </u>						

Project		Beit	ta Schoo	ol (MOHRI	Architects 8	k Ass. – Japan)	Locatio	on n	Bei	ta - Na	ablus
Borehole	No.	3	Р	age No.	1/1	Drilling Dat	e 9-7-200	8			****
Ground le	vel	0.0				Weather	Sunny				
Drill Rig		Mot	oile B-31	Ļ		Operator	Adnan				•
Scale		pier Type	Sym- bol	Des	cription o	f soil strata	USCS	(1	S No. of	PT F blow	ve)
(m)	Ŋ	- F	S					15	15	15	N
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								8	8	9	17
1.0	_			i				L			
2.0								7_	7	8	15
2.0			•	Dry to m	edium mois	t, fine deposits	of C	<u> </u>		<u> </u>	
3.0	-					ttle pebbles	CL CL	8	7	9	16
	┥ .		•			•		9	9	8	17
4.0								-	-	-	1
								8	9	9	18
5.0											
	\geq	\leq			Dense daye	y gravel	GÇ	46	59	-	R
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Level, at v	vhich '	wate	r was	encounte	****	None	Color of w	ater	Τ_		
Water lev		_					None	<u> </u>	J		
Remarks :					~~~						
1000 101				O							
JSCS- Unit R- Refusal											
		Dr. 4	Pauri s		·····			·····			
pproved	i l	Ur. S	oami A	. Hijjawi							

Project	Beita	Schoo	MOHRI	Architects 8	k Ass. – Japan)	Locatio	n	Bei	ta - Na	blus
Borehole No.	4	P	age No.	1/1	Drilling Date	9-7-200	8			
Ground level	0.0				Weather	Sunny		************		
Drill Rig	Mobil	e B-31		•	Operator	Adnan		***	~~	
Scale (m)	Type	Sym- bol	Des	cription o	f soil strata	USCS	(1		PT blow	/s)
• •		S					15	15	15	N
0.0							6	6	8	14
1.0										
2.0					t, fine deposits o ittle pebbles	of CL	7	6	8	14
3.0							7	8	9	17
					*		8	9	10	19
4.0							42	41	55	R
5.0			Mix of d	ense bould little silt	ers, gravels and , clay	ec	44	46	56	R
6.0							50	52	_	R
7.0	Λ		Dei	nse dayey :	silty Gravel	GC	40	42	51	R
8.0			J CI	noc dayey	Sity Graves		42	48	56	R
9.0						,				
10.0										
11.0	,									
12.0			E	nd of borin	g @ 9 m					
•				Water F		•	•			
Level, at which	water	was	encounte	red	None	Color of w	ater	_		
Water level 24h	ırs. aft	ter co	mpletion			None				
Remarks : USCS- Unified So R- Refusal (more										
Approved :	Dr. S	ami A	. Hijjawi						····	

Proje	ect		Al F	ara'a S	School (MOH	RI Architec	ts & AssJapan)	Locatio	n	Al F	ara'a	
	hole N	0.	1		Page No.	1/1	Drilling Date		8			
Grou	nd lev	el	0.0			·•	Weather	Sunny				
Drill	Rig		Mot	ile B-3	1		Operator	Adnan				
Se	ale	۱ ـ	_ 4	<u> </u>							PT	
	n)	E S	Pier Type	Sym	Des	cription of	soil strata	USCS			blow	
	,			-	-				15	15	15	N
0.0					Drv. I	hard formati	ion of creamy				<u> </u>	ļ
					,,,	limesto		-			<u> </u>	R
1.0										ļ	<u> </u>	ļ
											<u> </u>	R
2.0												
												R
3.0											<u> </u>	
												R
4.0												
					5		d formation of					R
5.0					creamy	<u>rieulum naro</u> slightly west	<u>d</u> formation of thered mariston					
					G Curry,	ongridy wou		"				R
6.0												
												R
7.0												
												R
8.0					}							
												R
9.0												
10.0												
11.0												
										1	1	
12.0						End of borin	ng @ 9m				İ	
			1			Water F		1		•		*************************************
Leve	l, at w	hich	wat	er wa	s encounte	ered	None	Color of w	ater	 -		
	···			_	ompletion			None				
	arks :	-d C-	JI (71-	scifis-	tion System							
	s- Unine fusal (i				tion System ows)							
Appr	oved :		Dr.	Sami	A. Hijjawi				<u> </u>			

Project	Al F	ara'a So	thool (MOH	RI Archited	s & AssJapan) Locatio	n	Al F	ara'a	
Borehole No.	2		age No.	1/1	Drilling Date		8			
Ground level	0.0				Weather	Sunny				
Drill Rig	Mol	oile B-31			Operator	Adnan				
Scale :	5.8	<u> </u>					/ / / /		PT	_
(m) 🖔	pler Type	S T	Des	cription or	soil strata	USCS	15	15	blow 15	s) N
0.0										
										R
1.0	-									
										R
2.0										
			Dry, n	nedium hard	formation of			************************		R
3.0					thered mariston	ie				
										R
4.0										
										R
5.0										
										R
6.0										
7.0										
8.0										
								~~~~~~		
9.0										
10.0										
11.0				·					ļ	
12.0										
12.0				End of borin					<u> </u>	
Level, at whic	h wat	or war	ancount-	Water R	None	Color of w	ater	-		
Water level 24					IAOUE	None	atti	<u> </u>		
water level 2. Remarks :	7111 D. C	W	p.cuvii		<u>i</u>	HOIIC		······································		
USCS- Unified S R- Refusal (mor										
Approved :	Dr.	Sami A	. Hijjawi					······································		

Project		Al F	ara'a S	thool (MOI	IRI Archite	cts & AssJapan	) Locatio	on .	All	ara'a	
Borehole N	0.	3		age No.	1/1	Drilling Dat		8	1		
Ground lev	el	0.0				Weather	Sunny				
Drill Rig		Mot	oile B-3:	L .		Operator	Adnan			**	***
Scale	٤.	<b>.</b> 9	<b>-</b> -					T	S	PT	
(m)	San	Type	Sym	Des	cription o	f soil strata	USCS			blow	
0.0								15	15	15	N
0.0							•		ļ	-	
1.0									<u> </u>		R
1.0										<u> </u>	<u> </u>
2.0								<u></u>		ļ	R
2.0	1										
20						d formation of	-		<u> </u>		R
3.0				creamy,	siigntiy wea	thered maristor	ie				<u> </u>
4.0										ļ	R
4.0										ļ	ļ
50							İ			ļ	R
5.0										<u> </u>	ļ
6.0											R
6.0								ļ			
7.0											R
7.0	İ					rd formation of	_				
				creamy,	siigntiy wea	thered mariston	ie				R
8.0											
2.0		_									R
9.0										ļ	
10.0											
		- 1									
11.0		İ									
								ļ	ļ		
12.0				E	End of borin						
		<del></del>			Water	· · · · · · · · · · · · · · · · · · ·					<del></del>
Levei, at wi					red	None	Color of w	ater	<b> -</b>		
Water level Remarks :	24h	rs. a	rter co	mpletion			None				
<b>USCS-</b> Unifie <b>R-</b> Refusal (m											
Approved :		Dr.	Sami A	. Hijjawi							

Project		ALI	ara'a So	thool (MOH	IRI Architec	ts & AssJapar	) Locatio	on	ALF	-ага'а	
Boreho		4		age No.	1/1	Drilling Dat	-		1		
Ground	level	0.0			<b>1</b>	Weather	Sunny				
Drill Rig	9	Mol	bile B-31			Operator	Adnan	, · · · · ·			
Scale		<u>.</u> 9	ė-							PT	
(m)		pler Type	Sym- bol	Des	cription of	f soil strata	USCS			blow	
0.0		<del></del> _						15	15	15	N
0.0								<u></u>		ļ	<del></del>
1.0				_						<del> </del>	R
1.0						d formation of thered maristo	-				<u> </u>
2.0				ucany,	siigituy wea	u ici cu mansioi	1E			ļ	R
2.0										-	<u> </u>
3.0						,		<del> </del>	<u></u>	<u> </u>	R
3.0								<u> </u>		ļ	
4.0										ļ	R
4.0						rd formation of		<u></u>		ļ	
EO				creamy, s	signuy wea	thered maristor	ie				R
5.0								<u> </u>		<b> </b>	
6.0						- T.J.A. 11.				ļ	R
6.0										ļ	<u> </u>
7.0											
7.0											
										<u> </u>	
8.0										ļ	
											ļ
9.0											
15.5									***************************************	ļ	ļ
10.0											
										<u> </u>	
11.0											ļ
										<u> </u>	
12.0		j		E	end of borin			<u> </u>		<u>L</u>	<u> </u>
					Water F				<del>,</del>		
				encounte	red	None	Color of w	ater	<u> </u>		
		hrs. a	ifter co	mpletion	······	· · · · · · · · · · · · · · · · · · ·	None				
Remark USCS- U R- Refus	Inified S			on System /s)							
Approve	ed:	Dr.	Sami A	. Hijjawi							

Proje	ect		Jeri	cho S	Scho	ol (MOHR	I Archite	ects	& AssJapan)	Lo	catio	n	Jeri	cho	-
Bore	hole N	0.	1		Pa	ge No.	1/1		<b>Drilling Dat</b>	te 20	/7/20	08			
Grou	nd lev	el	0.0						Weather	Su	inny				· · · · · · · · · · · · · · · · · · ·
Drill	Rig		Mot	ile B	-31				Operator	Ac	inan				71.44.00
Sca	ale	Ė:	. 8	Ė-	┰╽	_		_	** -					PT	
	n)	Sar	Type	Sym-	8	Des	cription	of:	soil strata	ប	SCS			blow	
0.0					$\dashv$							15	15	15	N
0.0													_	ļ. <u>.</u>	
1.0												5	6	6	12
1.0									and plastic sill d vegetation	<b>Гу</b>   ,	CH				
2.0						uay v	viui 1000	s all	ı veyetation			6	7	7	14
2.0															
3.0					+	•						7	7	8	15
3.0			-									<u>-</u>			
40		İ										8	8	9	17
4.0									edium plastic	:   ,	CL				
F 0			ļ			Sity	day wit	n ncc	le pebbles			8	9	9	18
5.0			- 1												
<i>-</i> • • • • • • • • • • • • • • • • • • •												8	9	10	19
6.0															
7.0															
7.0															
8.0															
-			Ì												
9.0													***************************************	<u> </u>	
10.0															
					ĺ										
11.0															
			1												
12.0			<u></u> ]				nd of bo								
		··· <u>·</u>					Water						<del></del>		
						ncounte	red		None	Color	of w	ater	-		
		24h	rs. a	fter ·	COIT	pletion				None					
						n System i)									
Appro	ved :		Dr. S	Sami	i A.	Hijjawi				··········					

Project	Jericho Sch	nool (MOHF	U Archited	s & AssJapan)	Locatio	)n	leri	cho	
Borehole No.		age No.	1/1	Drilling Dat				<u> </u>	
Ground level	0.0		1 -7 -	Weather	Sunny				
Drill Rig	Mobile B-3	1		Operator	Adnan				
Scale 🛱 à	. g - L -						S	PT	•••
Scale É à		Des	cription o	of soil strata	USCS			blow	
0.0	+ -					15	15	15	N
0.0									
1.0		5 - delt-t-				6	7	6	13
1.0		Reddish	prown, fin	e and plastic silt and vegetation	у сн			ļ	<u> </u>
2.0		uay v	viu i ioots d	ina vegetation		7	7	7	14
2.0									
3.0						7	8	8	16
3.0									ļ
4.0		l	_			9	8	8	16
1.5			, fine, med ay with litt	lium plastic silty	CL				
5.0		"	ay willi iill	ie bennies		9	9	9	18
J.,						_		1.5	
6.0						8	9	10	19
0.0								<u> </u>	
7.0							·		
							<del></del>		
8.0									
9.0									
10.0									
11.0									
12.0		-	nd of bori	30 @ 6m					
		<u> </u>	Water						:
Level, at which v	vater was	encounte		None	Color of wa	ater	Ι.		
Water level 24hi		<del></del>	· <del></del>	1	None			<del></del>	
Remarks :				<u>l</u>					
<b>USCS</b> - Unified Soil <b>R</b> - Refusal (more t									ļ
K- Keiusai (IIIOle t	11011 JU DIUW	13)							
<u> 1.</u>			<del></del>						
Approved:	Dr. Sami A	. Hijjawi							

Project	Jerici	no Sch	nool (MOH	RI Architec	ts & AssJapan	) Locatio	on	Jeri	cho	
Borehole No.	3		ige No.	1/1	Drilling Dat					
Ground level	0.0				Weather	Sunny				,
Drill Rig	Mobile	B-31			Operator	Adnan		<del></del>		
Scale = ;	. و .						Ī	S	PT	
(m) 2	Z Z		Des	cription o	f soil strata	USCS		No. of		
		<u>"</u>					15	15	15	N
0.0										<u> </u>
10							6	7	7	14
1.0					and plastic sili	y CH				ļ
			ciay v	vitin roots a	nd vegetation		6	8	7	15
2.0										
							7	8	9	17
3.0										
							8	9	9	18
4.0								<u> </u>		
							8	9	9	19
5.0										
					ium plastic silty	CL	8	9	9	18
6.0			d	ay with littl	e pebbles					
							8	8	9	17
7.0										
							7	9	9	18
8.0	İ									
							8	9	9	18
9.0										
10.0										
11.0										
						-				
12.0			E	nd of borin						
				Water F						
Level, at which		~~~~		red	None	Color of w	ater	-		
Water level 24h	rs. afte	er cor	npletion			None				
Remarks : USCS- Unified Soi R- Refusal (more t										al and distribution and the second
Approved :	Dr. Sa	mi A.	Hijjawi					*		***************************************

Proje	ect	·	Je	richo Sc	hool (MOH	IRI Archited	ts & AssJapan	) Locatio	on	Jeri	cho	
	hole N	0.	4		age No.	1/1	Drilling Dat		908			
Grou	nd lev	el	0.0				Weather	Sunny				
Drill	Rig		Mot	ile B-31			Operator	Adnan				
Sc	ale	<u>.</u>	- <b>9</b>		_					-	PT	
	n)	San	Type	Sym	Des	cription o	of soil strata	USCS		No. of		
0.0									15	15	15	N
0.0									6	7	7	14
1.0									<b>—</b>	+-	<del>                                     </del>	2.7
2.0		:					e and plastic silt	у сн	6	7	7	14
2.0					day v	with roots a	and vegetation			<del>                                     </del>	<del>                                     </del>	A.1
									7	8	8	16
3.0			İ							-	<u> </u>	
									8	8	9	17
4.0										Ť	Ť	
									8	9	9	18
5.0												
									9	9	9	18
6.0			`				y, fine, medium ith little pebbles				<u> </u>	
			1		plasuc	Siity Clay W	iui iitue pebbies	•	7	8	8	16
7.0								ŀ				
									7	8	10	18
8.0												
									9	9	9	18
9.0												
									,			
10.0												ļ
11.0												
12.0						End of bori	<del></del>			<u> </u>	<u> </u>	
					· · · · · ·	Water	<del></del>		4	- <del>                                    </del>		
					encounte	_	None	Color of w	<i>r</i> ater	_		
	r level arks :	<b>24</b> 1	ırs. a	ITTEF CO	mpletion	·		None				
USCS					on System vs)							
Appro	oved :		Dr.	Sami A	. Hijjawi		· · · ·					

Project		Wad	di Al Fa	ra'a School	(MOHRI In	c. – Japan)	Locatio	n	Wa	di Fara	a'a
Borehole	No.	1	P	age No.	1/1	<b>Drilling Date</b>	8-7-200	8	<del></del>		
Ground le	vel	0.0		-		Weather	Sunny				
Drill Rig		Mot	oile B-3	1		Operator	Adnan				
Scale	Ė	<u>.</u> 9	£							PT	
(m)	Sar	Type	Sym- boi	Des	cription o	f soil strata	USCS			blow	
0.0				Denoc	ite of brown	n, dry silty day	CL	15	15	15	N
0.0		$\rightarrow$		Depos	NICS OF DECAM	ii, ury sity day	CL	<b> </b>		1	R
1.0										<del>                                     </del>	K
	-										R
2.0				Dry,		ition of white	_			<del> </del>	<del>                                   </del>
					limest	one				<u> </u>	R
3.0											K
										<del>                                     </del>	R
4.0											, · · ·
				Medium	hard form	ation of creamy				<del>                                     </del>	R
5.0				riculan	limest		-				
	┪									ļ	R
6.0											<u> </u>
							<u> </u>				
7.0	7	I						<u> </u>	<del> </del>		
	7										
8.0								<u> </u>			
				]							
9.0								<del></del>			
										ļ	
10.0	0.0										
11.0											
		l									
12.0					End of bori	ng @ 6m					
					Water i	Record					
Level, at <b>v</b>						None	Color of w	ater	-		
Water lev		ırs. a	fter co	mpletion			None				
Remarks : USCS- Uni R- Refusal		il Cla	ssificati	on System							
Approved	:	Dr.	Sami A	. Hijjawi			······································		<del></del>		

Date Identification	July 24, 2008 Beit Dajan				
Input Units of N	Units of Measurement	_	Results Terzachi	Vesio	
		si 81 or E	acity	P 50	
Foundati	Foundation Information		q ult = 508 kPa q a = 169 kPa	629 KPa 210 KPa	
Shape	6	SQ 8Q, Cl, CO, or RE		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
B=	p		Allowable Column Load		
	п.	E :	P = 677 kN	839 KN	
1	n				
Soil Information	mation				
= 0	ja.	29 kPa			
= jud	,,	11 deg			
gamma =	10	18 kN/m^3			
Dw =	p	20 m			
Factor of Safety	Safety				
		on			

Terzaghi Computations a theta = 1.551681

No = 10.16

Ng = 2.98

Ngamma 1.21

gamma' = 1.21

gamma' = 1.21

coefficient 1.3

coefficient 0.4

sigma zD' 36

Gamma w 9.8 phi (radian 0.191986

Unit conve

tation	1.91	1.40	E	1.10	1.85	1.44	0.60	1.00	-	-	0
Vesic Computation	n 08	clo a	NG =	8fl a	olu =	N gamma	8 gamma :	d gamma:	BAL =	D ×	W sub f

Date Identification	July 24, 2008 Beita School							
Input Units of M	Units of Measurement			Results		Terzaohi	Vesio	
		si Slor E	E E		=	acity	alian a	
Foundation	Foundation Information				9 ml =	462 kPa 154 kPa	567 kPa 189 kPa	
Shape		80,80	SQ SQ, CI, CO, or RE	or RE			1 III 201	
		E 2			Allowable Column Load	llumn Load		
70		EE			E E	615 KN	756 KN	
Soil Information	ation							
9		28 kBa	311					
phi		10 dea	-24					
gamma =		18 KN/	Th/3					
Dw =		20 m						
Factor of Salety	Bafely							
13 137		67						

-	9.8 0.174533	omputations 1.491934 9.60 2.69 1.04 1.3 0.4	8.34 1.30 1.40 8.47 1.18 1.24 1.28 1.20 1.00	O
Unit conve	Gamma w phi (radian	Terzaghi Ca a theta = No = Nq = N gamma gamma' = coefficient coefficient sigma zD'	Vesio Comp No = so = clo = Nq = sq = dq = dq = d gamma = d gamma = EVI. = k =	W sub f

Units of Measurement si St or E Foundation Information SO SO, Ct, CO, or RE B = 2 m	Results	
		Vesic
	pacity	
	qull = 455 kPa qa = 152 kPa qa = 152 kPa	554 kPa 185 kPa
L = 0 = 2 = 3	Allowable Column Load P = 606 KN	738 KN
Soil Information		
0 = 30 kPa		
0amma = 18 kN/m^3 Dw = 20 m		

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Gammaw	9.8
phi (radian	0.15708
Terzanhi Go	monitations
T III	and the second
a meta =	1.434398
No =	0.00
e UN	2.44
N gamma	0.88
gamma' =	18
coefficient	1.3
coefficient	0.4
sigma 2D'	36
Vesie Computat	utation
	7.92
= 08	1.20
clo =	1.40
NG =	9.95
= 08	1.18
e bp	1.23
N gamma	1.03
a gamma:	0.80
d gamma:	1.00
B/L =	-
= *	-
W sub f	0

Unit conve

HijjaWi			•		0,	SUMMA	RY OF L	ABORAT	ORY 1	SUMMARY OF LABORATORY TEST RESULTS	TS.	
Sample Depth Content Content Content Content Content Content Sieve No. LL Limits Sieve No. LL Limits Sieve No. LL PT Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. LL Sieve No. CL Sieve No. CL Sieve No. Cl. Cl. Cl. Cl. Cl. Cl. Cl. Cl. Cl. Cl		ніјја	M	Ref.: SI/271		Project	: Establishm	ent of New S	chools in	the West Bank	Site: A	l Fara'a
(m)         (%)         Sieve No. # 200         LL PI         PI Gravity (KN/m²)         C         Ø (%)         absorption (%)         (qu)           0.0-1.5         6.5         NA         NP         NP         NP         NP         (KN/m²)         (%)         (%)         (KN/m²)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)         (%)	=	Sample Depth	Moisture	% Finer	Atter	rberg	- Biographic	Shea	rers	Water	Unconfined	nscs
0.0-1.5         6.5         NA         NP         NP         NP         2.72         12         19         8.0         8.0         8.2           1.5-9.0         8.4         84.9         39.4         19.7         2.72         12         19         80         82           0.0-6.0         7.1         79.8         38.9         18.5         2.72         11         18         80         80.5         80.5         19.0         2.72         12         19         80.5         19         80.5         19.0         2.72         13         18         80.5         18         80.5         18         18         80.5         18         18         18         80.5         18         18         80.5         18         18         80.5         18         18         18         80.5         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18	Š.	Ē	(%)	Sieve No. # 200	LL (%)	ы	Gravity	C (KN/m²)	<b>8</b> 9	absorption (%)	(q _u )	Classifi- cation
1.5-9.0         8.4         84.9         39.4         19.7         2.72         12         19         19           0.0-6.0         7.1         79.8         38.9         18.5         2.72         11         18         1           0.0-6.0         5.9         80.5         38.7         19.0         2.72         12         19         1           6.0-9.0         14.5         83.5         40.1         19.9         2.72         13         18         18           0.0-3.0         6.3         78.8         38.4         18.4         2.72         10         17         19         17         17         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18 <t< td=""><td></td><td>0.0-1.5</td><td>6.5</td><td>NA</td><td>NP.</td><td>NP.</td><td></td><td></td><td></td><td>8.0</td><td>82</td><td></td></t<>		0.0-1.5	6.5	NA	NP.	NP.				8.0	82	
0.0-6.0         7.1         79.8         38.9         18.5         2.72         11         18         18           0.0-6.0         5.9         80.5         38.7         19.0         2.72         12         19         19           6.0-9.0         14.5         83.5         40.1         19.9         2.72         13         18         18           0.0-3.0         6.3         78.8         38.4         18.4         2.72         10         17         17           3.0-6.0         15.1         81.2         39.8         20.0         2.72         14         18         18	•	1.5-9.0	8.4	84.9	39.4	19.7	2.72	12	19			ರ
5.9         80.5         38.7         19.0         2.72         12         19           14.5         83.5         40.1         19.9         2.72         13         18           6.3         78.8         38.4         18.4         2.72         10         17           15.1         81.2         39.8         20.0         2.72         14         18	2	0.0-6.0	Ц	79.8	38.9	18.5	2.72	11	18			ರ
14.5         83.5         40.1         19.9         2.72         13         18         18           6.3         78.8         38.4         18.4         2.72         10         17           15.1         81.2         39.8         20.0         2.72         14         18	~	0.0-6.0	5.9	80.5	38.7	19.0	2.72	12	19			ฮ
6.3         78.8         38.4         18.4         2.72         10         17           15.1         81.2         39.8         20.0         2.72         14         18	,	0.6-0.9	14.5	83.5	40.1	19.9	2.72	13	18			ರ
15.1 81.2 39.8 20.0 2.72 14 18	4	0.0-3.0	6.3	78.8	38.4	18.4	2.72	10	17			ď
		3.0-6.0	15.1	81.2	39.8	20.0	2.72	14	18			ឋ

NA - Not applicable NP - Non Plastic

	Site: Wadi Al Fara'a	9091	Classifi-				
TS	Site: Wad	Unconfined		(KN/m²)	7	72	99
SUMMARY OF LABORATORY TEST RESULTS	Project: Establishment of New Schools in the West Bank	Water	absorption			7.8	8.9
TORY	chools in t	ar eters	0	٤			
ABORA	nt of New S	Shear Parameters	ပ	(KN/m²)			
RY OF L	Establishme		Specific				
SUMMA	Project:	berg its	Id	I •	21.0	AP	dN
		Atterberg Limits	77	(%)	42.8	NP	<b>N</b>
	Ref.: SI/272	% Finer	Sieve No. # 200		35.4	NA	AN
	۷I	Moisture Content		(%)	5.4	4.5	5.0
	ПЈЈаМ	Sample Depth		(E)	0.0-0.5	0.5-4.0	4.0-6.0
			į			<del></del>	

NA - Not applicable NP - Non Plastic

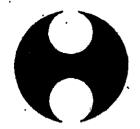
	ω.	SOSI	Classifi-		٦	၂၉	U	ပ္ပ	ાહ	_D	ပ္ပ	ರ	ပ္ပ	ပ္ပ	
	<b>Site :</b> Beita		_		_					-					
	Sit	Mation	Modulus of	(Ka/cm²)	145		215			135		140			
RESULTS		Swelling and Consolidation	Swelling	(Ka/cm²)	0,75		0.90			0.70		0.73			
SUMMARY OF LABORATORY TEST RESULTS	the West Bank	Swell	Potential	(%)	1.0		1.1			0.83		1.0			
MATOF	schools in	ar eters	Ø	<u></u>	15	27	16	87	23	28	24	16	27	24	
F LABO	ent of New S	Shear Parameters	ບ	(KN/m²)	45	0	42	0	8	41	6	42	0	0	
MARY O	<b>Project :</b> Establishment of New Schools in the West Bank	Choose	Gravity		2.73	2,65	2.72	2.66	2.65	2.73	2.65	2.72	2.65	2.64	
SUM		rberg nits	ď	1	16.4	Ν	17.5	<b>N</b>	S	14.0	ď	16.0	M	₽ B	
		Atter	<b>=</b>	(%)	47.5	NP	48.1	₽	Q.	43.4	ď	46.9	ď	₽	
	<b>Ref.</b> : SI/276	% Finer	Sieve No. # 200		88.4	18,8	87.8	15,9	32.2	92.6	28.9	87.8	15.0	27.5	
,	N	Moisture Content		(%)	12.5	7.9	9.5	7.9	9.3	12.4	8.9	8.7	7.2	8.0	
	IIJawi	Sample Depth		(m)	0.0-4.0	4.0-6.0	0.0-4.5	4.5-7.5	7.5-9.0	0.0-5.5	5.5-6.0	0.0-4.0	4.0-7.0	7.0-9.0	
		I	ģ		-	1		2		m			4		

NA -- Not applicable NP -- Non Plastic

8.2 84.5 50.4 24.1 2.73 45 15 1.90 120 190	3 S 11 S 2 S	Sample Mc Depth (m) (m) (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0-3.0 (2.0 (2.0 (2.0 (2.0 (2.0 (2.0 (2.0 (2	Molsture Content (%) 8.9 20.2 10.4 18.4	% Finer Sieve No. # 200 # 200   89.3   68.4   77.9   77.6	Atter Lim Lim 20,0 37.0 37.0 50.9 34.6 50.5	-	Specific Gravity 2.73 2.73 2.73 2.73 2.73 2.73 2.73	C   C   C   C   C   C   C   C   C   C	chools in ters & & & & & & & & & & & & & & & & & & &	SUMMARY OF LABORATORY TEST RESULTS           Project :         Establishment of New Schools in the West Bank           Specific Gravity         Shear Gravity         Shear Swelling and Constant Swelling pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Pressure Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling Swelling S	ST RESULTS           Swelling and Consolidation           ttal         Swelling pressure (Kg/cm²)         Modul           0         114         18           0         75         14           0         81         14           0         81         14           0         81         14           0         81         14           0         81         14           0         81         18           0         80         14           0         80         14	1 margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin margin 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CH CH CH CH CH
21.0 89.6 40.4 16.1 2.72 38 16 0.99	4	0.0-3.5 3.5-9.0	8.2	84.5	50.4	24.1 16.1	2.73	38	15	1.90	120	190	ਲੋਰ

HijjaWi						SUMM.	ARY OF	LABOR	<b>ATORY</b>	SUMMARY OF LABORATORY TEST RESULTS	LTS	
Sample Depth         Moisture Content Sieve Lt No.         Atterberg Limits Sieve No.         Atterberg Limits Sieve No.         Specific Gravity Content Sieve No.         Specific Gravity Content Sieve No.         Compression (%)         Compr		Hijjaw		Ref.: SI/2.	28	Proje	ct : Establish	ment of Nev	v Schools	in the West Bank	Site:	N Zubeidat
(m)         (%)         # 200         (%)         PI         Gravity (KN/m²)         C         Ø         absorption (%)         (qu)           0.0         -         2.645         2.645         2.640         3.1         175           0.0         -         2.639         3.5         155	ā	Sample Depth	Moisture Content	% Finer	Atte	rberg	2	Shea Parame	r ters	Water	Unconfined Compression	SSN
(m)         (%)         # 200         (%)         "         (KN/m²)         (%)         (KN/m²)         <	E ċ	•		No.	1	Īā	Gravity	U	Ø	absorption (%)	(5)	Classifi-
0.0     -     2.645     2.7       0.0     -     2.640     3.1       0.0     -     2.639     3.5		(m)	(%)	# 200	(%)	•		(KN/m²)	(6)		(KN/m²)	
0.0     -     -     2.640     3.1       0.0     -     2.639     3.5		0.0	-				2.645			2.7	185	
0.0 -   2.639   3.5	Surface	0.0	•		•		2.640			3.1	175	
	Sallipies	0.0	1				2.639			3,5	155	

Note: Samples were collected from the exposed surface rocks for evaluation only.



# مختبرات حجاوي الانشائية Hijjawi Construction Labs

M-S/MOHRI, Architect & Associates, Inc. Tokyo - Japan Date: 25/7/2008

Mr. Hasafumi Michikawa

Mr. Hiroyuki Yoshizawa

Project - Soil Investigation for New Schools in the West Bank

Subject - Borehole Location Maps

Dear Sirs,

Kindly find attached the borehole location maps for the school sites, were we did drilling and investigations.

Assuring our best regards.

Yours sincerely,

Dr. Sami A. Hijjawi General Manager

Attachments: 5 pages.

hx Ilysm hg, rhzl. mm fkbx ... synuD ... synuD ... synuD ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... should ... shoul

