

添付資料



添付資料 1. 調査団員氏名・所属

(1) 現地調査 I

	氏名 (敬称略)	担当業務	所属
1	江崎 千絵	総括	JICA 人間開発部基礎教育グループ 基礎教育第一チーム 課長
2	横田 隆浩	実施監理計画	同上 資金協力業務部 実施監理 第二課 企画役
3	川田 耕造	協力企画	同上 人間開発部基礎教育グループ 基礎教育第一チーム 調査役
4	道川 久文	業務主任／建築計画	㈱毛利建築設計事務所
5	設楽 知弘	副業務主任／建築計画 2／ 自然条件調査	同上
6	福島 健	建築設計／設備計画	同上
7	一番ヶ瀬 佳昭	施工計画／積算／調達計画	同上
8	高橋 美奈子	調達情報	同上
9	高橋 洋	機材計画／積算	同上 (補強)
10	佐藤 幸司	教育計画	㈱国際開発センター
11	土江 龍介	安全対策計画	㈱毛利建築設計事務所 (補強)
12	松宮 かおる	建築設計 2 (自主補強団員)	㈱毛利建築設計事務所
13	藤川 朋子	建築設計 3 (自主補強団員)	同上

(2) 現地調査 II

	氏名 (敬称略)	担当業務	所属
1	澁谷 和朗	総括	JICA 人間開発部基礎教育グループ 基礎教育第一チーム 課長
2	横井 恵子	協力企画	同上 人間開発部基礎教育グループ 基礎教育第一チーム
3	道川 久文	業務主任／建築計画	㈱毛利建築設計事務所
4	設楽 知弘	副業務主任／建築計画 2／ 自然条件調査	同上
5	高橋 洋	機材計画／積算	同上 (補強)

(1) 現地調査 I

	A	B	C	D	E	F	G	H	I	J	K
	要員	業務主任/建築計画	副業務主任/建築計画 自然条件調査	建築設計/設備計画	施工計画/積算/設備計画	調達情報	機材計画/積算	教育計画	安全対策計画	建築設計2 (自主機材回収)	建築設計3 (自主機材回収)
	12日	20日	20日	23日	23日	23日	23日	23日	23日	23日	15日
1	2月15日 金	東京→マニラ JICA事務所打合せ、教育・高 等教育庁業務	松本和弘 Bに同じ	福島健 23日	一巻夕輝 佳昭 23日	林 (高橋) 美奈子 23日	高橋 洋 23日	Bに同じ Bに同じ Aに同じ	Bに同じ Bに同じ Aに同じ	Bに同じ Bに同じ Aに同じ	祖父江 (高川) 朋子 15日
2	2月16日 土	東京→マニラ JICA事務所打合せ、教育・高 等教育庁業務	Bに同じ	同上	同上	同上	同上	Bに同じ	Bに同じ	Bに同じ	
3	2月17日 日	マニラ 類似校視察	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
4	2月18日 月	マニラ 類似校視察	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
5	2月19日 火	マニラ 類似校視察	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
6	2月20日 水	マニラ 類似校視察	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
7	2月21日 木	マニラ 類似校視察	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
8	2月22日 金	マニラ 類似校視察	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
9	2月23日 土	東京	Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
10	2月24日 日		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
11	2月25日 月		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
12	2月26日 火		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
13	2月27日 水		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
14	2月28日 木		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
15	3月1日 金		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
16	3月2日 土		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
17	3月3日 日		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
18	3月4日 月		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
19	3月5日 火		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
20	3月6日 水		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
21	3月7日 木		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
22	3月8日 金		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
23	3月9日 土		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
24	3月10日 日		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
25	3月11日 月		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
26	3月12日 火		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
27	3月13日 水		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
28	3月14日 木		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
29	3月15日 金		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
30	3月16日 土		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
31	3月17日 日		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
32	3月18日 月		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
33	3月19日 火		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
34	3月20日 水		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
35	3月21日 木		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
36	3月22日 金		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
37	3月23日 土		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
38	3月24日 日		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
39	3月25日 月		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
40	3月26日 火		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
41	3月27日 水		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
42	3月28日 木		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
43	3月29日 金		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	
44	3月30日 土		Aに同じ	同上	同上	同上	同上	Aに同じ	Aに同じ	Aに同じ	

(2) 現地調査 II

		団長	協力企画	業務主任／建築計画	副業務主任／建築計画2／ 自然条件調査	機材計画／積算
		A) 渋谷 和朗	B) 横井 恵子	C) 道川 久文	D) 設楽 知弘	E) 高橋 洋
1	2019/11/22	東京発→ →テルアビブ着		成田発(18:00)→香港(22:25, 01:30)→ →テルアビブ(07:25)→ラマツラ		
2	2019/11/23			A) と同じ	A) と同じ	A) と同じ
3	2019/11/24	JICA パレスチナ事務所協議 教育庁施設局 協議		A) と同じ	A) と同じ	A) と同じ
4	2019/11/25	他ドナー案件視察(ラマツラ市内) 副大臣表敬・協議 教育庁施設局 M/D協議		A) と同じ	教育庁協議 A) と同じ	D) と同じ A) と同じ
5	2019/11/26	他案件に従事		教育庁協議 現地コンサルタント協議	A) と同じ	A) と同じ C) と同じ 機材業者調査
6	2019/11/27	財務計画庁協議 教育庁施設局 M/D協議		A) と同じ A) と同じ	教育庁・現地コンサルタント協 議	教育庁協議 機材業者調査
7	2019/11/28	教育庁計画局 協議 JICA パレスチナ事務所報告 教育庁M/D署名 パレスチナ代表事務所報告		教育庁・現地コンサルタント協 議 A) と同じ A) と同じ A) と同じ	C) と同じ 教育庁・現地コンサルタント協 議	機材業者調査 教育庁協議 A) と同じ A) と同じ
8	2019/11/29	テルアビブ発→		ラマツラ→テルアビブ(14:25)→		
9	2019/11/30	→東京着		→香港(06:15, 08:55)→羽田(13:45)		

添付資料 3. 関係者リスト

教育庁 (Ministry of Education)

西岸地区

氏名	役職	所属
Marwan Awartani	Minister (現地調査 II)	-
Sabri Saidam	Minister (現地調査 I)	-
Basri Saleh	Deputy Minister	-
Fakhri Safadi	Director General	Building Department
Nidal A. Abu Baker	Head	Building Department
Rami Ishtiwi	Engineer	Building Department
Khawla Shihadeh	-	Building Department
Murad Obaid	Director General	Financial Department
Imad Brighith	Project Manager	German Palestine Cooperation
Ma'moon Fahmi Jabr	General Director	Education Planning
Umniyat Abdul Majeed	Head	Division of Statistics
Amal Abedalleh Hammad	Head	Division of Planning
Mahdi Mohammad Hamdan	Head	Mapping Section
Mohammed Al Qarout	Director General	Procurement Department
Amjad Mahmoud Abu Husein	Director	Salaries and Allowances
Raed Mansour	Head	Employment Department
Samir Ishaq Rajab	Director General	Projects
Khalid Waleed Odeh	Director	Budget & Financial Monitoring
Mushir Sharif	Director General	Supply Department
Mohammad S.Qalalwa	Director	Supply Department
Mohammad Kayed Sabbah	Head	Division of School Laboratories
Jehad Draid	Director General	Educational Technology and Information Technology
Ali Khader Abbas	Head	Educational Technology and Information Technology
Mustafa Mutair	Engineer	Educational Technology and Information Technology
Mohammad A. Al-Hawwash	General Director	Special Education Department
Rana A. Jaber	Head	Special Education Department
Tharwat L. M. Zaid	Head	Curriculum Center
Ahmad A. Sayareh	Director	Science Department of Curriculum Center
Rabiha Ellian	Director General	General Education Department
Suhair Awwad	Head	Gender Garten of General Education Department

ガザ地区

氏名	役職	所属
Jamal Al Barg	Director General	Building Department
Ahram I. Hammad	General Director	Financial Affairs

Mazen K. Murshad	Direcotr	Enginnering Sevices Department
Zeyad Abo Hostafa	Chief	Contract Department
Shaher R. Mushtaha	Direcotr	Supply & Storages Department

### 財務庁 (Ministry of Finance and Planning)

氏名	役職	所属
Nasser Jiaan	Director General	VAT
Rafiq Bishg	Deputy General	Income Tax

### 環境庁 (Environment Quality Authority)

氏名	役職	所属
Zaghloul Samhar	Director General	Policies & Planning
Dalia Amleh	Environmental Engineer	Environment Quality Authority

### パレスチナ建設組合

#### 西岸地区

氏名	役職	所属
Taj Aldeen I.Juma	President	Palestine Construction Union
Zaher A. AlHmidat	General Secretary	Palestine Construction Union

#### ガザ地区

氏名	役職	所属
Ayman Juma	Chairman Deputy	Palestine Construction Union

### 自治体及び地方教育局

#### Yatta

氏名	役職	所属
Yaser Saleh	Director	
Hani Hamanh	Head	Planning Department
Iyad Hannad	Planning Engineer	Yatta Municipality
Hussein Abu Sabha	Head	Construction Department
Jihad Abu Zahra	Deputy Director	
Tawfiq Abu Malash	Mayor	Al Karmal Municipality

#### South Hebron

氏名	役職	所属
Khaled Abu Savav	Governor	
Yousef Slamin	Deputy Director	Directorate of Education
Fauzi Ghamib	Engineer	Directorate of Education

### Hebron

氏名	役職	所属
Atef Atjamd	Manager	Directorate of Education
Mohammad Waqor	Head of Planning Division	Directorate of Education
Mohammad Atjalhameh	Engineer	Directorate of Education

### North Hebron

氏名	役職	所属
Muneer Amleh	Head	Planning Department
Ranya Abu Ayyash	Head	
Abbas Aldabbas	Engineer	Nuba Municipality
Mahmod Al-shroof	Head	Nuba Municipality

### Qabatia

氏名	役職	所属
Mohamed Mosa Sokawrer	Director	Education Division
Thabef Alieh	Engineer	Directorate
Wael Arda	—	Directorate
Sudai Jararr	—	Directorate
Hassan Nazzal	—	Directorate

### Nablus

氏名	役職	所属
Thabet Taher Atiya	Engineer	Building Department, Directorate of Education

### South Nablus

氏名	役職	所属
Adbulwahab Antari	Engineer	Building Department,
Anwar Omair	Mayor	Bala' Municipality
Abdullah Omair	Deputy Mayor	Bala' Municipality
Wedad Malak	Engineer	Bala' Municipality
Mohammad Zahei	Engineer	Directorate of Education
Hani Jaidi		Building Department, Directorate of Education

### Tulkarem

氏名	役職	所属
Ahmad Said Mansur	Mayor	



UNRWA

氏名	役職	所属
Miki Yoshida	Support Officer	UNRWA

アン・ナジャーフ大学 (An-Najah National University)

氏名	役職	所属
Jalal Al Dabbeck	Director	Urban Planning and Disaster Risk Reduction Center

イスラエル国防省

氏名	役職	所属
Sabina Elayev	Head of International Dept.	Coordination and Liaison Administration, Erez, Gaza
Zoë Avisar	GRM officer	

JICA パレスチナ事務所

氏名	役職	所属
阿部 俊哉	所長	
三藤 悠子	所員	
山岸 良馬	所員	
ヒバ・マシヤール	プログラム・オフィサー	
サヘル・ユニス	チーフ・プログラム・オフィサー(ガザ)	



## 添付資料4 協議議事録およびテクニカルノート



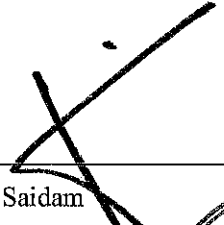
## 添付資料 4 - 1 協議議事録（現地調査 I）

**Minutes of Discussions**  
**on the Preparatory Survey for the Project for Construction of Schools for**  
**Improvement of Quality and Environment of Education**


Based on the several preliminary discussions between the Palestinian Authority (hereinafter referred to as “Palestine”) and Japan International Cooperation Agency (hereinafter referred to as “JICA”) Palestine Office, with reference to the letter No.29/38/46637 dated September 27th, 2018), JICA dispatched the Preparatory Survey Team for the Outline Design (hereinafter referred to as “the Team”) of the Project for Construction of Schools for Improvement of Quality and Environment of Education (hereinafter referred to as “the Project”) to Palestine. The Team held a series of discussions with the officials of Palestine and conducted a field survey. In the course of the discussions, both sides have confirmed the main items described in the attached sheets.

Ramallah, February 21<sup>st</sup>, 2019

  
  
Ms. Mie Ezaki  
Team Lead  
Japan International Cooperation Agency

  
Dr. Sabri Saidam  
Minister  
Ministry of Education and Higher Education  
The Palestinian Authority



  
Dr. Shukry Bishara  
Minister  
Ministry of Finance and Planning  
The Palestinian Authority

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to improve the learning environment of primary and secondary education in the Palestine through construction of new schools and provision of educational equipment, thereby contributing to the improvement of the quality of the primary and secondary education.

### 2. Title of the Preparatory Survey

Both sides confirmed the title of the Preparatory Survey as “the Preparatory Survey for the Project for Construction of Schools for Improvement of Quality and Environment of Education”.

### 3. Project site

3-1. Both sides confirmed the list and the map of the candidate construction sites of the Project as shown in Annex 1.

3-2. Both sides also agreed that the construction sites for the Project would be selected from the list of candidate construction sites based on the criteria described in Annex 2. Based on the list, a field survey to the sites up to 8 sites in Gaza Strip (G1-G8) and 11 sites in West Bank (W1-W11) will be conducted by the Team and JICA Palestine Office. After the field survey, the revised list of the candidate sites will be proposed by the Team based on the criteria described in the Annex 2. The revised list will be agreed by the Ministry of Education and Higher Education (hereinafter referred to as “MoEHE”) and attached to the Technical Note (T/N), which is expected to be concluded at the end of the first survey.

### 4. Components requested by the Palestine

Both sides confirmed that the components (facilities, furniture and equipment) of the Project including the specification would be determined based on local standards with necessary modifications. The Team will further discuss the components of the Project in detail with MoEHE and the detailed list of the components with priority will be attached to the T/N.

### 5. Final scope of the Project

5-1. JICA will assess the feasibility of the above candidate construction sites and the requested components through the survey and will report the findings to the

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Government of Japan. The final scope of the Project will be decided by the Government of Japan.

5-2. The Palestine side shall submit an official request to the Government of Japan through a diplomatic channel before the appraisal of the Project, which is scheduled in November 2019.

6. Responsible authority for the Project

Both sides confirmed that MoEHE would be the executing agency responsible for the Project (hereinafter referred to as “the Executing Agency”). The Executing Agency shall coordinate with all the relevant authorities to ensure smooth implementation of the Project and ensure that the undertakings for the Project shall be managed by relevant authorities properly and on time. The organization chart are shown in Annex 3

7. Procedures and Basic Principles of Japanese Grant

7-1. The Palestine side agreed that the procedures and basic principles of Japanese Grant (hereinafter referred to as the “Grant”) as described in Annex 4 shall be applied to the Project.

7-2. The Palestine side agreed to take the necessary measures, as described in Annex 5, for smooth implementation of the Project. The contents of the Annex 5 will be elaborated and refined during the Preparatory Survey and be agreed in the mission dispatched for explanation of the Draft Preparatory Survey Report.

The contents of Annex 5 will be updated as the Preparatory Survey progresses, and eventually, will be used as an attachment to the Grant Agreement.

7-3. Both sides agreed that the eligible nationality of the prime constructing and/or procurement firms, are nationals of the recipient country or other country(ies). The eligible nationality will be examined, and will be agreed at the Preparatory Survey for the explanation of the Draft Preparatory Survey Report.

7-4. The bidding/selection and conclusion of contracts of the products and services covered by the Grant of the Project will be conducted at Palestine based on the result of the Survey. The Palestine side agreed that the products and services covered by the Grant of the Project will be solely procured in accordance with JICA’s Procurement Guidelines for the Japanese Grants (for Japanese consultant and local contractors) (Tentative Type II), which is the condition under Japanese Grant.

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7-5. The Palestine side agreed that the currency for contract of prime construction and/or procurement firms is internationally traded foreign currency acceptable to JICA, that is US dollar, which will be stipulated in the Grant Agreement. The Palestine side understood the flow of payment as shown in the Annex 4 and confirmed to take necessary measures for the payment in a timely manner. The Palestine side explained that the Bank of Palestine as the “Recipient Bank” will conclude the banking arrangement (hereinafter referred to as “the Banking Arrangement”) with a bank in Japan (hereinafter referred to as the “Agent Bank”), which will be stipulated in the Grant Agreement.

7-6. The Palestine side agreed that the feasibility of issues mentioned above in 7-3, 7-4, and 7-5 will be further examined by Japanese side based on the result of this field survey and that the result of examination will be explained at the Preparatory Survey for the explanation of the Draft Preparatory Survey Report.

#### 8. Schedule of the Survey

8-1. The Team will proceed with further survey in Palestine until March 29<sup>th</sup>, 2019.

8-2. MoEHE will answer to the Questionnaire submitted by the Team with relevant documents by March 8, 2016.

8-3. An official request to the Government of Japan will be submitted before August 2019.

8-4. JICA will prepare a draft Preparatory Survey Report in English and dispatch a mission to Palestine in order to explain its contents around November 2019.

8-5. If the contents of the draft Preparatory Survey Report is accepted and the undertakings for the Project are fully agreed by the Palestine side, JICA will finalize the Preparatory Survey Report and send it to Palestine around February 2020.

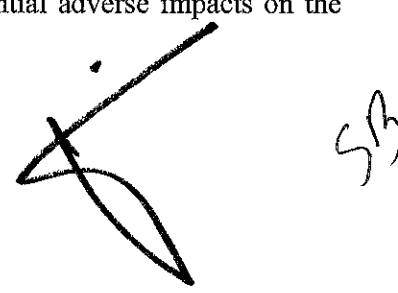
8-6. The above schedule is tentative and subject to change.

#### 9. Environmental and Social Considerations

9-1. The Palestine side confirmed to give due environmental and social considerations during implementation, and after completion of the Project, in accordance with the JICA Guidelines for Environmental and Social Considerations (April 2010).

9-2. The Project is categorized as “C” from the following considerations:

Not located in a sensitive area, nor has it sensitive characteristics, nor falls it into sensitive sectors under the Guidelines, and its potential adverse impacts on the environment are not likely to be significant.

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## 10. Other Relevant Issues

### 10-1. ICT Equipment

Both sides confirmed that the Project would cover a certain number of ICT equipment based on the standard, policy and future plan of MoEHE on the provision of ICT equipment. The final scope of the equipment will be decided by the Government of Japan as stated in the article 5-1.

### 10-2. Solar Power System in the Gaza Strip

Both sides agreed to consider including Solar Power Systems or designing that enables the future setup of the solar power system at the requested schools in the Gaza Strip due to the frequent blackout in the area. The team will study the feasibility through the Survey and the final scope of the equipment will be decided by the Government of Japan as stated in the article 5-1.

### 10-3. Bidding document and contract

The Palestine side requested to share the bidding document including contract incorporating general conditions for local contractors/suppliers and the Team will share it during the first survey. Regarding the payment for local contractors/suppliers, the Palestine side explained that the fixed exchange rate should be mentioned in the bidding document.

### 10-4. Land Preparation and Exterior Works

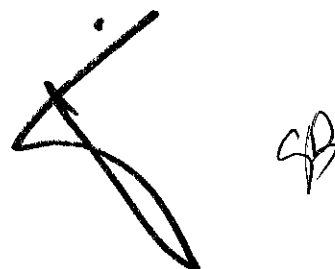
MoEHE requested JICA to include following works in the scope of the Project and the Team will assess the necessity through the Survey and consider including the works in the scope of the Project. The reasons of MoEHE's requests are as follows;

✓ Land preparation in some sites in West Bank

In some sites in West Bank, due to their steep and complex topography, it is technically difficult to separate the land preparation work such as excavation and retaining walls from building design, and the same contractor should conduct both work.

✓ Exterior works

Exterior works such as fences and gates need to be done in a timely manner to keep schools security. However, it is not necessarily possible to allocate the fund to implement the exterior works by MoEHE.

A large, stylized handwritten signature is written in black ink. To its right, there are smaller initials, possibly 'CB', also written in black ink.

#### 10-5. Exemption of Taxes, Duties and Levies

The Palestine side agreed to take necessary measures to ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the Palestine with respect to the purchase of products and/or services to be exempted.

#### 10-6. Measures to be taken in case that problems arise

The Palestine side confirmed that when problems such as delay of construction works or procurement of equipment by contractors/suppliers arises during the implementation of the Project, the Executing Agency will take necessary measures in accordance with technical opinion of the consultant in a timely manner.

#### 10-7. Measures against the cost overrun

The Palestine side agreed that when the amount of the Grant, which includes the contingency, is not enough to cover the entire works or procurement of equipment on the implementation of the Project, the Palestine side will modify the scope of works and/or procurement of equipment that are covered by the Grant based on technical opinion of the consultant and be in charge of the other scope by its own side.

Annex 1 List and Map of the Candidate Construction Sites of the Project

Annex 2 Selection Criteria of Construction Sites for the Project

Annex 3 Organization Chart of MoEHE

Annex 4 Japanese Grant

Annex 5 Major Undertakings to be taken by the Government of Palestine

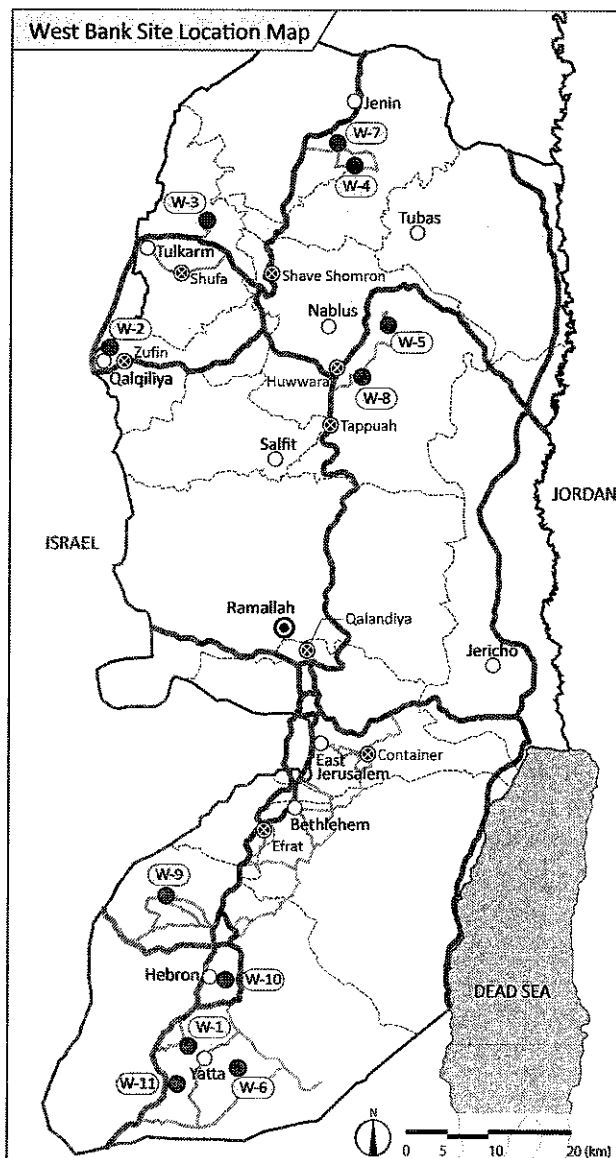
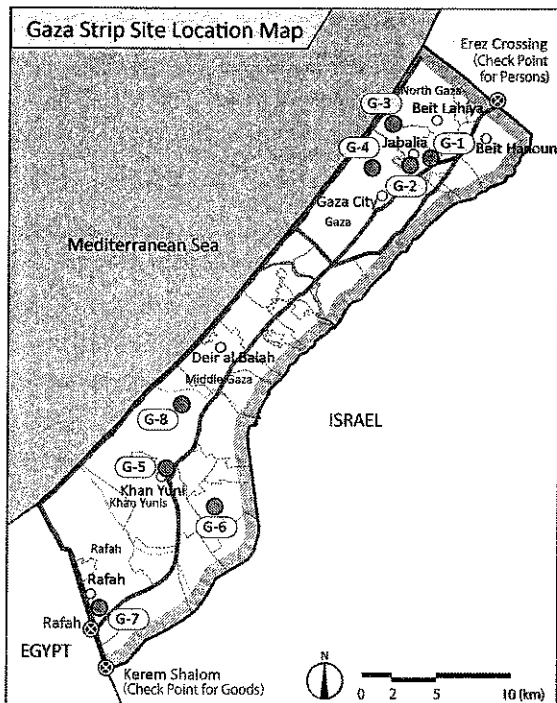
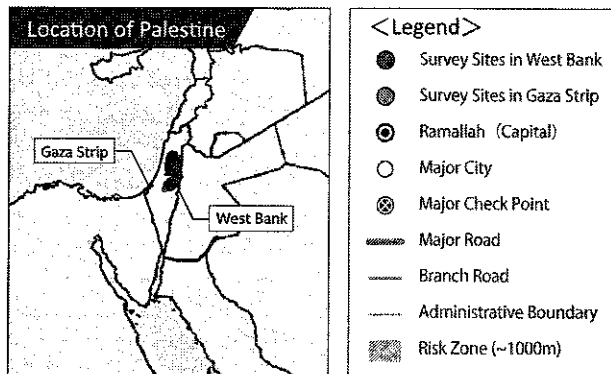


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List of Survey Sites

West Bank		
ID No.	Governorate	School Name
W-1	Yatta	Al Dar AlBaida' Basic Coed school
W-2	Qalqelia	Qalqelia basic boys school
W-3	Tulkarem	Bafa School Basic Girls
W-4	Qabatia	Meslieh Basic Coed School
W-5	Nablus	Salem Sec Girls School
W-6	Yatta	Al Karmel Basic Boys School
W-7	Qabatia	New school at Qabatia Sec girls school
W-8	south Nablus	Beta Basic Coed School
W-9	North Hebron	Noba Sec Boys School
W-10	Hebron	New school at wad al Nasarah
W-11	South Hebron	Alsamoo' Basic Boys School
Gaza Strip		
G-1	North Gaza	Jam'la Land-Mas'od street-Jabalia
G-2	North Gaza	Halawa land 2 - Jabalia
G-3	North Gaza	Moharbeen qodama land
G-4	West Gaza	Qahera school
G-5	Khan younis	Osama El-Najar school
G-6	East Khan younis	Absan Alkabeera Land
G-7	Rafah	Salam area
G-8	Khan younis	Hamad city1

Site Location Map



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### Selection Criteria of Construction Sites for the Project

#### [Preconditions (Preliminary)]

- Land use right or land ownership certificate is presented
- There is no overlapping project with the government and/or other development partners near the requested site.
- There is no hindrance for construction in the site. (Ex. The site is accessible by construction vehicle; the site is suitable for construction in terms of topography and land size.)
- There is no risk of natural disaster.
- The school construction need from the viewpoint of enrollment is confirmed.
- Effective teacher deployment plans for the requested schools are verified.
- There will be no negative impact on environment and will involve no resettlement of residents.
- No security risk is confirmed (A school site with high security risk may be considered to be excluded from the Project)

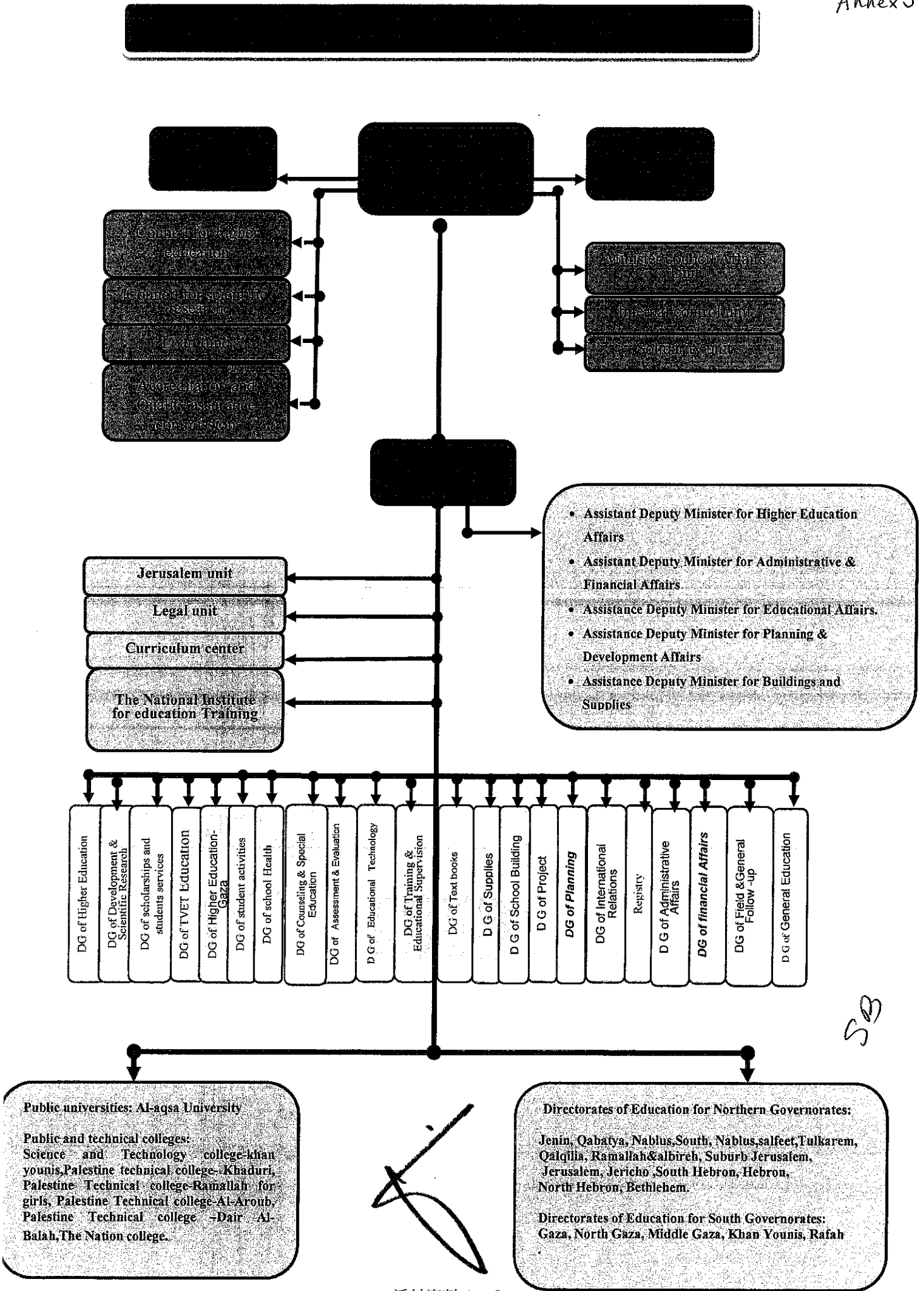
#### [Priority matters (Preliminary)]

- The site has few cost increasing factors such as pilings, a large-scale land development, etc.
- The site does not have any hindrance for Japanese construction supervisors to access to.
- MoEHE's priority as below;
  - Double or triple shift schools
  - Schools using rented building
  - Condition of school building is bad
  - Highly crowded schools
  - Schools expecting natural increase of students
- The construction need is higher than others.
- No excessive security measure is required



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## JAPANESE GRANT

The Japanese Grant is non-reimbursable fund provided to a recipient country (hereinafter referred to as “the Recipient”) to purchase the products and/or services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. Followings are the basic features of the project grants operated by JICA (hereinafter referred to as “Project Grants”).

### 1. Procedures of Project Grants

Project Grants are conducted through following procedures (See “PROCEDURES OF JAPANESE GRANT” for details):

(1) Preparation

- The Preparatory Survey (hereinafter referred to as “the Survey”) conducted by JICA

(2) Appraisal

-Appraisal by the government of Japan (hereinafter referred to as “GOJ”) and JICA, and Approval by the Japanese Cabinet

(3) Implementation

Exchange of Notes

-The Notes exchanged between the GOJ and the government of the Recipient

Grant Agreement (hereinafter referred to as “the G/A”)

-Agreement concluded between JICA and the Recipient

Banking Arrangement (hereinafter referred to as “the B/A”)

-Opening of bank account by the Recipient in a bank in Japan (hereinafter referred to as “the Bank”) to receive the grant

Construction works/procurement

-Implementation of the project (hereinafter referred to as “the Project”) on the basis of the G/A

(4) Ex-post Monitoring and Evaluation

-Monitoring and evaluation at post-implementation stage

### 2. Preparatory Survey

(1) Contents of the Survey

The aim of the Survey is to provide basic documents necessary for the appraisal of the the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of

relevant agencies of the Recipient necessary for the implementation of the Project.

- Evaluation of the feasibility of the Project to be implemented under the Japanese Grant from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of an outline design of the Project.
- Estimation of costs of the Project.
- Confirmation of Environmental and Social Considerations

The contents of the original request by the Recipient are not necessarily approved in their initial form. The Outline Design of the Project is confirmed based on the guidelines of the Japanese Grant.

JICA requests the Recipient to take measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the executing agency of the Project. Therefore, the contents of the Project are confirmed by all relevant organizations of the Recipient based on the Minutes of Discussions.

#### (2) Selection of Consultants

For smooth implementation of the Survey, JICA contracts with (a) consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

#### (3) Result of the Survey

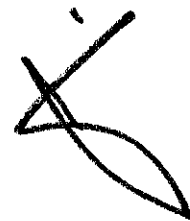
JICA reviews the report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the feasibility of the Project.

### **3. Basic Principles of Project Grants (contract with Japanese consultant and local contractors)**

#### (1) Implementation Stage

##### 1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the Recipient to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Recipient to define the necessary articles, in accordance with the E/N, to implement the Project, such as conditions of disbursement, responsibilities of the Recipient, and procurement conditions. The terms and conditions generally applicable to the Japanese Grant are stipulated in the "General Terms and Conditions for Japanese Grant (January 2016)."





2) Banking Arrangements (B/A) (See "Financial Flow of Grant" for details)

- a) The Recipient shall open an account or shall cause its designated authority to open an account under the name of the Recipient in the Bank, in principle. JICA will disburse the Japanese Grant in Japanese yen for the Recipient to cover the obligations incurred by the Recipient under the verified contracts.
- b) In case of Japanese consultant, the Japanese Grant will be disbursed when payment requests are submitted by the Bank to JICA under an Authorization to Pay (A/P) issued by the Recipient.
- c) In case of local contractors, the Japanese Grant will be disbursed when requests for disbursement are submitted by the Recipient to JICA.

3) Procurement Procedure

The products and/or services necessary for the implementation of the Project shall be procured in accordance with JICA's procurement guidelines as stipulated in the G/A.

4) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the Recipient to continue to work on the Project's implementation after the E/N and G/A.

5) Eligible source country

In using the Japanese Grant disbursed by JICA for the purchase of products and/or services, the eligible source countries of such products and/or services shall be Japan and/or the Recipient. The Japanese Grant may be used for the purchase of the products and/or services of a third country as eligible, if necessary, taking into account the quality, competitiveness and economic rationality of products and/or services necessary for achieving the objective of the Project. However, the prime consulting firm, which enter into contracts with the Recipient, are limited to "Japanese nationals", while the prime constructing firm(s), which enter into contracts with the Recipient, could be nationals of the recipient country or other country(ies) if deemed it necessary .

6) Contracts and Concurrence by JICA

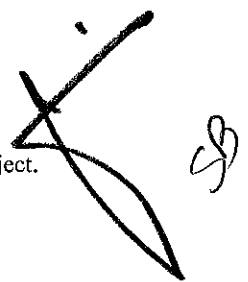
The Recipient will conclude the consultant contract denominated in Japanese yen with Japanese nationals and the construction/supplier contracts denominated in other internationally traded foreign currency acceptable to JICA with the local contractors. Those contracts shall be verified by JICA in order to be eligible for the Japanese Grant.

7) Monitoring

The Recipient is required to take their initiative to carefully monitor the progress of the Project in order to ensure its smooth implementation as part of their responsibility in the G/A, and to regularly report to JICA about its status by using the Project Monitoring Report (PMR).

8) Safety Measures

The Recipient must ensure that the safety is highly observed during the implementation of the Project.



### 9) Construction Quality Control Meeting

Construction Quality Control Meeting (hereinafter referred to as the "Meeting") will be held for quality assurance and smooth implementation of the Works at each stage of the Works, if necessary. The member of the Meeting will be composed by the Recipient (or executing agency), the Consultant, the Contractor and JICA. The functions of the Meeting are as followings:

- a) Sharing information on the objective, concept and conditions of design from the Contractor, before start of construction.
- b) Discussing the issues affecting the Works such as modification of the design, test, inspection, safety control and the Client's obligation, during of construction.

### (2) Ex-post Monitoring and Evaluation Stage

- 1) After the project completion, JICA will continue to keep in close contact with the Recipient in order to monitor that the outputs of the Project is used and maintained properly to attain its expected outcomes.
- 2) In principle, JICA will conduct ex-post evaluation of the Project after three years from the completion. It is required for the Recipient to furnish any necessary information as JICA may reasonably request.

### (3) Others

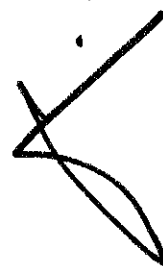
#### 1) Environmental and Social Considerations

The Recipient shall carefully consider environmental and social impacts by the Project and must comply with the environmental regulations of the Recipient and JICA Guidelines for Environmental and Social Considerations (April, 2010).

#### 2) Major undertakings to be taken by the Government of the Recipient

For the smooth and proper implementation of the Project, the Recipient is required to undertake necessary measures including land acquisition, and bear an advising commission of the A/P and payment commissions paid to the Bank as agreed with the GOJ and/or JICA. The Government of the Recipient shall ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the Recipient with respect to the purchase of the Products and/or the Services be exempted or be borne by its designated authority without using the Grant and its accrued interest, since the grant fund comes from the Japanese taxpayers.

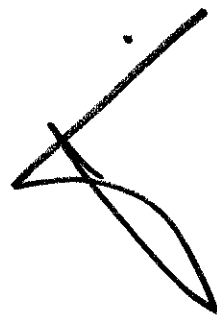
#### 3) Proper Use

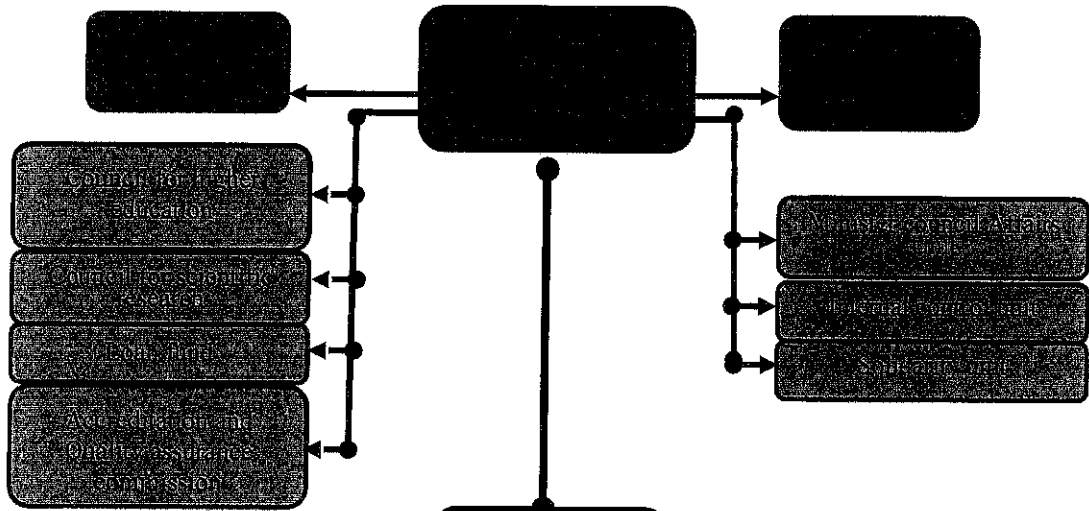


The Recipient is required to maintain and use properly and effectively the products and/or services under the Project (including the facilities constructed and the equipment purchased), to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Japanese Grant.

4) Export and Re-export

The products purchased under the Japanese Grant should not be exported or re-exported from the Recipient.





- Assistant Deputy Minister for Higher Education Affairs
- Assistant Deputy Minister for Administrative & Financial Affairs
- Assistance Deputy Minister for Educational Affairs
- Assistance Deputy Minister for Planning & Development Affairs
- Assistance Deputy Minister for Buildings and Supplies

- Jerusalem unit
- Legal unit
- Curriculum center
- The National Institute for education Training

- DG of Higher Education
- DG of Development & Scientific Research
- DG of scholarships and students services
- DG of TVET EDUCATION
- DG of Higher Education- Gaza
- DG of student activities
- DG of school Health
- DG of Counseling & Special Education
- DG of Assessment & Evaluation
- D G of Educational Technology
- DG of Training & Educational Supervision
- DG of Text books
- D G of Supplies
- D G of School Building
- D G of Project
- DG of Planning
- DG of International Relations
- Registry
- D G of Administrative Affairs
- DG of financial Affairs
- DG of Field & General Follow-up
- D G of General Education

**Public universities: Al-aqsa University**

**Public and technical colleges:**  
 Science and Technology college-khan younis, Palestine technical college- Khaduri, Palestine Technical college-Ramallah for girls, Palestine Technical college-Al-Aroub, Palestine Technical college -Dair Al-Balah, The Nation college.

**Directorates of Education for Northern Governorates:**  
 Jenin, Qabatya, Nablus, South, Nablus, salfeet, Tulkarem, Qalqilia, Ramallah & albirch, Suburb Jerusalem, Jerusalem, Jericho, South Hebron, Hebron, North Hebron, Bethlehem.

**Directorates of Education for South Governorates:**  
 Gaza, North Gaza, Middle Gaza, Khan Younis, Rafah

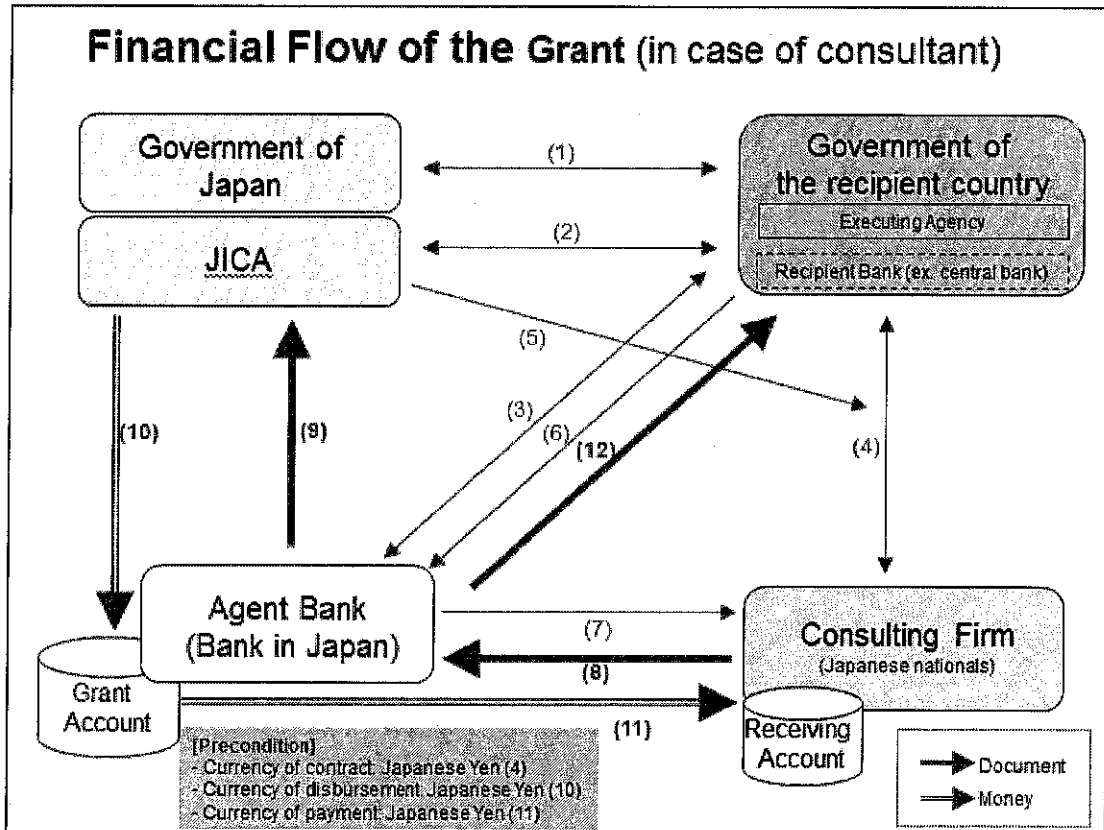
## PROCEDURES OF JAPANESE GRANT

Stage	Procedures	Remarks	Recipient Government	Japanese Government	JICA	Consultants	Contractors	Agent Bank
Official Request	Request for grants through diplomatic channel	Request shall be submitted before appraisal stage.	x	x				
1. Preparation	(1) Preparatory Survey Preparation of outline design and cost estimate		x		x	x		
2. Appraisal	(2) Preparatory Survey Explanation of draft outline design, including cost estimate, undertakings, etc.		x		x	x		
	(3) Agreement on conditions for implementation	Conditions will be explained with the draft notes (E/N) and Grant Agreement (G/A) which will be signed before approval by Japanese government.	x	x (E/N)	x (G/A)			
	(4) Approval by the Japanese cabinet			x				
3. Implementation	(5) Exchange of Notes (E/N)		x	x				
	(6) Signing of Grant Agreement (G/A)		x		x			
	(7) Banking Arrangement (B/A)	Need to be informed to JICA	x					x
	(8) Contracting with consultant and issuance of Authorization to Pay (A/P)	Concurrence by JICA is required	x			x		x
	(9) Detail design (D/D)		x			x		
	(10) Preparation of bidding documents	Concurrence by JICA is required	x			x		
	(11) Bidding	Concurrence by JICA is required	x			x	x	
	(12) Contracting with contractor/supplier	Concurrence by JICA is required Request for disbursement shall be made by the Recipient, in case of local contractor.	x		x		x	x
	(13) Construction works/procurement	Concurrence by JICA is required for major modification of design and amendment of contracts.	x			x	x	
(14) Completion certificate		x			x	x		
4. Ex-post monitoring & evaluation	(15) Ex-post monitoring	To be implemented generally after 1, 3, 10 years of completion, subject to change	x		x			
	(16) Ex-post evaluation	To be implemented basically after 3 years of completion	x		x			

notes:

1. Project Monitoring Report and Report for Project Completion shall be submitted to JICA as agreed in the G/A.
2. Concurrence by JICA is required for allocation of grant for remaining amount and/or contingencies as agreed in the G/A.

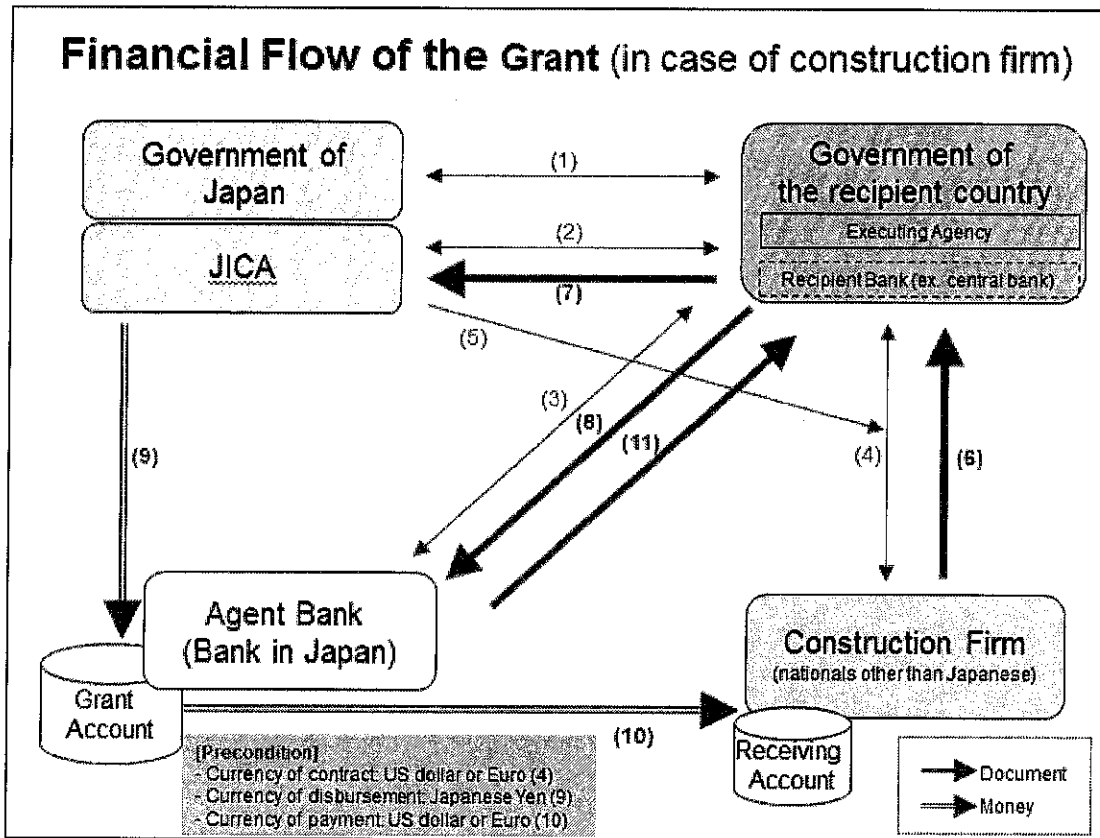
**Financial Flow of Japanese Project Grant**  
(contract with Japanese consultant and local contractors)



- (1) E/N
- (2) G/A
- (3) Banking Arrangement/Opening an Grant Account
- (4) Contract
- (5) Concurrence and Verification of Contract
- (6) Issuing Authorization to Pay (A/P) upon contract
- (7) Notification of A/P
- (8) Request for Payment**
- (9) Request for the Disbursement**
- (10) Disbursement of the Grant**
- (11) Payment**
- (12) Statement of Account**



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(1) E/N

(2) G/A

Submission of Evidence of Authority and Specimen Signatures from the Recipient to JICA (prerequisite for the process of no. (7))

(3) Banking Arrangement/Opening an Grant Account

(4) Contract

(5) Concurrence and Verification of Contract

**(6) Request for Payment**

**(7) Request for Disbursement**

**(8) Transfer Instruction**

**(9) Disbursement of the Grant \***

**(10) Payment**

**(11) Statement of Account**

\* The amount of disbursement in Japanese Yen ((9) in above chart) shall be calculated at the Telegraphic Transfer Selling (TTS) rate quoted by the Bank in Japan two business days before the date on which the disbursement is made.

## Major Undertakings to be taken by the Palestine Authority

## 1. Specific obligations of the Palestine Authority which will not be funded with the Grant

## (1) Before the Bidding

NO	Items	Deadline	In charge	Estimated Cost	Ref.
1	To open bank account (B/A)	within 1 month after the signing of the G/A	MOFP		
2	To issue A/P to a bank in Japan (the Agent Bank) for the payment to the consultant	within 1 month after the signing of the contract	MOFP		
3	To secure the necessary budget and implement land acquisition if necessary.	before notice of the bidding document	MoEHE		
4	To secure the project sites listed in the Annex 1 with the land ownership documents	before notice of the bidding document	MoEHE		
5	To obtain building permit.	before notice of the bidding document	MoEHE through Local consultant		
6	To clear, level and reclaim the following sites 1) remove obstacles such as trees and debris 2) remove existing facilities if necessary 3) (to be determined after analysis in Japan) clearing, leveling and reclaiming the sites except the sites where major excavation are necessary and will be conducted by Japanese side.	before notice of the bidding document	MoEHE / Municipality		
7	To secure temporary facilities to accommodate users of the existing school buildings to be demolished during construction period if necessary.	before the demolition works	MoEHE		
8	To move and store necessary furniture and equipment from the existing buildings to be demolished for reconstruction	before the demolition works	MoEHE		
9	1) To prepare a draft of Project Monitoring Report (with the result of Detail Design) by the consultant 2) To submit Project Monitoring Report	before preparation of bidding documents	MoEHE		
10	To ensure smooth implementation of the bidding procedures and to bear necessary expenses relevant to the bidding procedures including, but not limited to, the followings: - printing and binding of bidding documents (by the consultant) - bid notices on major newspapers - securing places for pre-bid meeting - securing places for bid opening - securing places for bid evaluation	before the bid notice	MoEHE		

(B/A: Banking Arrangement, A/P: Authorization to pay, N/A: Not Applicable)



## (2) During the Project Implementation

NO	Items	Deadline	In charge	Estimated Cost	Ref.
1	To bear the following commissions to a bank in Japan for the banking services based upon the B/A				
	1) Advising commission of A/P	within 1 month after the signing of the contract(s)	MoEHE		
	2) Payment commission for A/P	every payment for consultant	MoEHE		
	3) Remittance charge for local contractors and suppliers	every payment	MoEHE		
2	To conduct necessary procedures such as "Request for disbursement" to JICA (upon contract with construction firms and/or procurement firms (suppliers)), "Application of remittance" to Bank (upon contract with construction firms and/or procurement firms (suppliers))	during the Project	MoEHE /MOFP		
3	to ensure prompt customs clearance and to assist the Supplier(s) with internal transportation in the country of the Recipient	during the Project	MOFP		
4	To accord Japanese physical persons and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the country of the Recipient and stay therein for the performance of their work	during the Project	MoEHE		
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the country of the Recipient with respect to the purchase of the products and/or the services be exempted.	during the Project	MOFP		
6	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project	during the Project	MoEHE		
7	1) To prepare a draft of Project Monitoring Report by the consultant	every month	MoEHE		
	2) To submit Project Monitoring Report				
	3) To submit Project Monitoring Report (final)				
8	1) To prepare a draft of a report concerning completion of the Project by the consultant	within six months after completion of the Project	MoEHE		
	2) To submit a report concerning completion of the Project				
9	To construct access roads outside the site	3 months before completion of the construction	MoEHE / Municipality		
10	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the site(s)				
	1) Electricity The distributing line to the site	before start of the construction	MoEHE / Municipality		
	2) Water Supply The city water distribution main to the site	6 months before completion of the construction	MoEHE / Municipality		
	3) Drainage The city drainage main ( for storm, sewer and others ) to the site	6 months before completion of the construction	MoEHE / Municipality		
	4) Furniture and Equipment General furniture other than the ones procured by the Project	1 month before completion of the construction	MoEHE		

## (3) After the Project

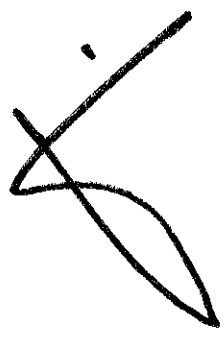
NO	Items	Deadline	In charge	Estimated Cost	Ref.
1	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid 1) Allocation of maintenance cost 2) Operation and maintenance structure 3) Routine check/Periodic inspection	After completion of the construction	MoEHE		
2	To allocate teachers and staffs required for school operation and management	After completion of the construction	MoEHE		

## 2. Other obligations of the Palestine Authority funded with the Grant

NO	Items	Deadline	Amount (Million Japanese Yen)*
1	To construct school facilities and procure furniture and equipment 1) To conduct the following transportation a) Marine(Air) transportation of the products from Japan/third countries to the recipient country, if necessary b) Internal transportation from the port of disembarkation to the project site, if necessary		/
	2) To construct access roads within the sites		
	3) To provide facilities of electricity, water supply, drainage and other incidental facilities within the sites.		
	To implement detailed design, bidding support and construction supervision (Consulting Service)		
2	Contingencies		/
3	Total		
			XXX

\*The Amount is provisional. This is subject to the approval of the Government of Japan.

-End-







## 添付資料4-2 テクニカルノート（現地調査Ⅰ）

**Technical Notes**  
**on the Preparatory Survey for the Project for Construction of Schools for**  
**Improvement of Quality and Environment of Education**

In February 2019, Japan International Cooperation Agency (hereinafter referred to as “JICA”) dispatched the Preparatory Survey Team (hereinafter referred to as “the Team”) to Palestine for the Preparatory Survey on the Project for Construction of Schools for Improvement of Quality and Environment of Education (hereinafter referred to as “the Project”).

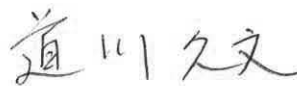
After signing of the Minutes of Discussions dated February 21, 2019 (hereinafter referred to as “the M/D”) by and between JICA, the Ministry of Education and Higher Education (hereinafter referred to as “MoEHE”), and the Ministry of Finance and Planning of the Palestinian Authority (hereinafter referred to as “PA”), the Consultant members of the Team (hereinafter referred to as “the Consultant”) continued to hold a series of meetings with the concerned parties of PA and conducted field surveys at the requested school sites in the West Bank and Gaza Strip.

In the course of meetings and the field survey, MoEHE and the Consultant have confirmed the main points described in the attached sheets.

Ramallah  
March 13, 2019



Fakhri Safadi  
Director General  
Building Department  
Ministry of Education and Higher  
Education



Hisafumi Michikawa  
Chief Consultant/Architectural Planning  
Preparatory Survey Team  
Joint Venture of Mohri, Architect &  
Associates, Inc. and International  
Development Center of Japan Inc.

CC. JICA Head Quarters and JICA Palestine Office

## Attachment

### 1. Position of this Technical Notes

Both parties mutually understood that there might be alteration and/or modification of the contents of this Technical Notes as a result of analyses in Japan. Both parties also agreed that this Technical Notes are treated as an unofficial document but as a reference material for further preparation of the Project.

### 2. Further Schedule of the Site Surveys and Analysis in Japan

#### 2-1. Topographic Surveys and Soil Investigations

The Consultant explained and MoEHE understood that the Consultant will conduct the topographic surveys and soil investigations, by employing local companies, basically at all the 19 candidate sites (11 sites in the West Bank, 8 sites in Gaza) as listed on Annex 1, in order to obtain technical data necessary for the outline design works. Such surveys and investigations are tentatively scheduled to conduct through March to April 2019. MoEHE agreed to coordinate with concerned authorities for smooth implementation of such surveys and investigations.

#### 2-2. Further Analysis on the Results of Site Surveys

The Consultant explained and MoEHE understood that the results of the site surveys shall be further studied and analyzed in Japan based on the contents of the M/D in principle.

### 3. Candidate School Sites and the Priority

Based on Annex 2 “Selection Criteria of Construction Sites for the Project” of the M/D, MoEHE selected 19 candidate schools (11 sites in the West Bank, 8 sites in Gaza) as listed on Annex 1 of the M/D.

After signing the M/D, MoEHE made some changes to the list of the candidate school sites and put the priorities for West Bank and Gaza Strip, respectively as shown in Annex 2 of this Technical Notes. Based on the revised list, the Consultants conducted the field surveys. The Consultant explained and MoEHE understood that the Team needs to analyze the gathered data further in Japan, including the result of the abovementioned topographic survey and the soil investigation, and the final priority will be determined based on the analysis and Annex 2 “Selection Criteria of Construction Sites for the Project” of the M/D in principle. As agreed on the M/D, the coverage and final scope of the Project will be decided by the Government of Japan.

MoEHE hopes to have the same number of schools in the West Bank and Gaza to be covered by the Grant Aid. If it is not the case due to budget constraints, MoEHE prefers to increase the number of schools in the West Bank by one.

#### 4. Requested Components of the Candidate Sites

Requested components of the candidate sites are confirmed as follows.

- 1) Building component lists of the candidate sites are shown in Annex3.
- 2) Furniture lists are shown in Annex 4.
- 3) Equipment lists are shown in Annex 5.
- 4) Furniture and equipment lists of kindergarten are shown in Annex 6

Both sides reconfirmed that the solar power system is provided only to the schools in Gaza, as stipulated in M/D.

#### 5. ICT Education and Equipment

For the promotion of ICT education, it is assumed that the following equipment is procured and installed at each school in accordance with the Digitalized School policy, while some modification will be necessary for Gaza Strip due to the shortage of electricity.

The quantity of each item to be covered under the Grant Aid will be finalized after the analysis in Japan and a tentative plan is referred in Annex 5.

- Tablet with a keyboard for all G-5 and G-6 students
- Desktop or laptop computers in the technology laboratory for students
- Printers in the technology laboratory
- Laptop computers for teachers
- WiFi covering the administration rooms, technology laboratory, library and G5-and G6 classrooms.
- Interactive projector (MoEHE requested to install interactive projectors in all the classrooms if the budget allows.)

#### 6. Newly Introduced Facilities to Public Schools

MoEHE requested the following facilities which were newly introduced to schools.

##### 1) Kindergarten

One kindergarten classroom for schools with G1-4 girls or co-ed classes. An exterior playground with playground equipment is included.

##### 2) Resource Room

For schools with G1-4. Including necessary equipment.

##### 3) Technology Laboratory



The Consultant explained and MoEHE understood that a computer laboratory should be added as an independent room and separated from a technology laboratory where technical education such as wood work and metal work are conducted as dusts from these works can negatively affect computers if they are used in the same room.

#### 7. JICA's Bidding Documents

Further to 10-3 of the M/D, MoEHE in principle, agreed to procure construction works and equipment using JICA's bidding documents, according to the Procurement Guideline for the Japanese Grants (for Japanese Consultant local contractors) (Tentative Type II).

However, MoEHE considers that parts of JICA's bidding documents need to be modified, added and deleted, based on the procurement regulations and customs in PA. To this end, MoEHE agreed that it shall communicate points to be considered for modifications to the Consultant through email by March 31, 2019.

#### 8. Proper size of procurement lots

MoEHE proposed to apply one contract for each school construction. However, MoEHE and The Consultant agreed to continue to consider the proper size of procurement lots based on selected schools and further information of construction sector in PA such as quality of construction work and financial stability of local contractors.

#### 9. Security Planning

The Consultant received documents from MoEHE certifying that all candidate sites are safe and secured for construction. (Annex 7)

However, from the viewpoint of comprehensive safety and security reasons, MoEHE understood that, based on the safety and security analysis by the Consultant, the Project will possibly include some security measures to be taken during the construction period, and that might affect the priority of the candidate schools.

#### 10. Specific Works to be Covered by the Palestinian Side

Based on Annex 5 "Major Undertakings to be taken by the Palestine Authority" of the M/D, MoEHE and the Consultant confirmed the necessity of the following specific works to be done by the Palestinian side before notice of bidding announcement to avoid delay of the construction work, if the respective sites are included in the final scope of the Project.

	Contents of works to be done by the Palestinian side	Site ID
a)	Logging or transplanting existing trees.	W-2, W-4, W-7, W-9, G-2, G-3
b)	Demolition and removal of existing aged buildings (including foundations) or existing fence.	G-4, G-7
c)	Removal of construction stone materials temporarily placed in the site.	W-11
d)	Removal of wastes.	W-6

#### 11. Submission of Requested Documents

The Consultant requested MoEHE to prepare documents that have not been submitted by each organization concerned (see Annex 8) by the end of March 2019 and submit them to the Consultant by e-mail. MoEHE duly acknowledged this request.

#### Annexes:

Annex 1 Location Map of Candidate School Sites

Annex 2 Information on requested schools and feeder schools

Annex 3 Building Component Lists of the Candidate Sites (West Bank and Gaza Strip)

Annex 4 Furniture List

Annex 5 Equipment Lists

Annex 6 Furniture and Equipment List for Kindergarten

Annex 7 Certificate of Safety for Construction

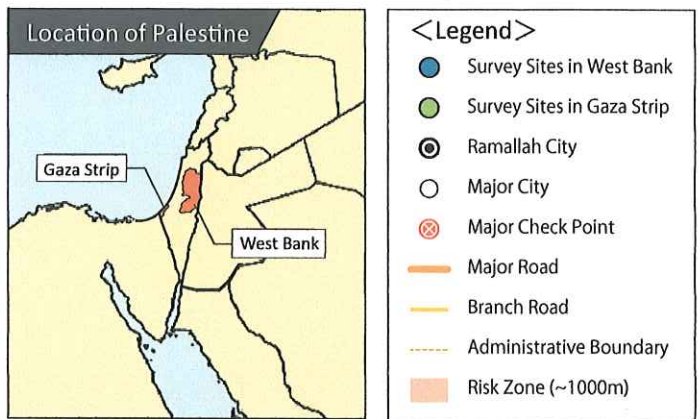
Annex 8 Requested Documents' List

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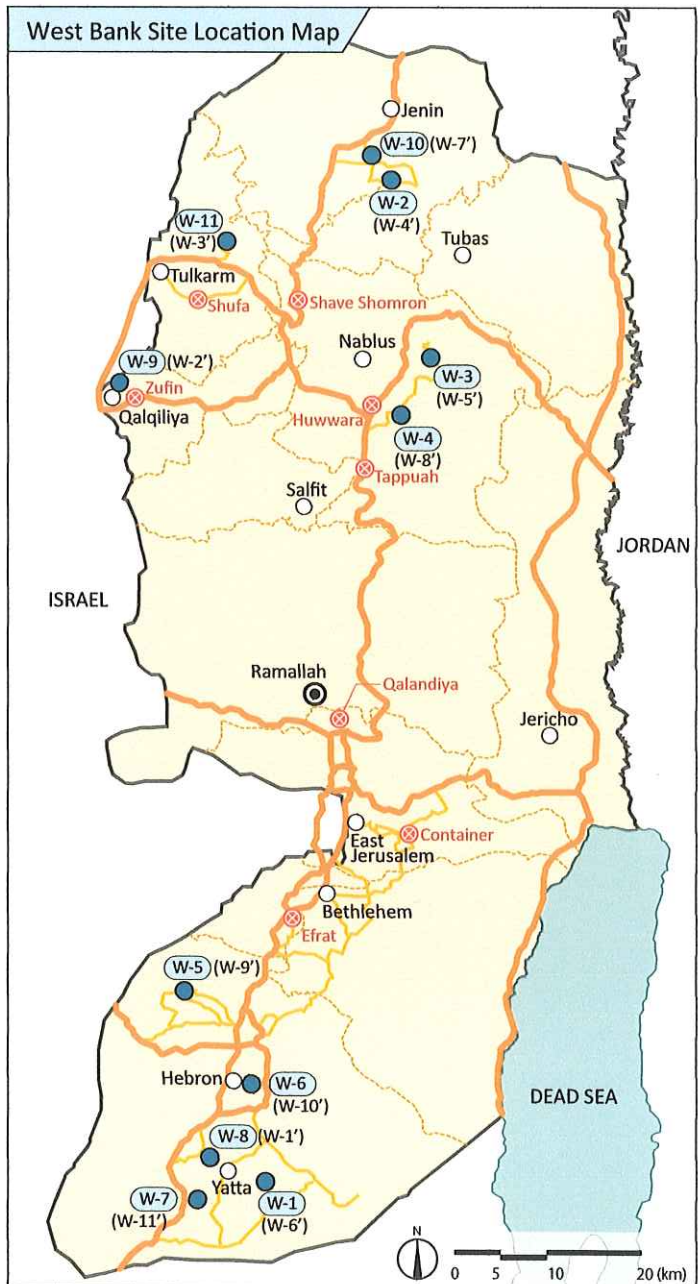
List of Candidate School Sites

West Bank			
ID No. (Revised)	ID No. (M/D)	Governorate	School Name
W-1	W-6'	Yatta	Al Karmel Basic Boys School
W-2	W-4'	Qabatia	Meslieh Basic Coed School
W-3	W-5'	Nablus	Salem Sec Girls School
W-4	W-8'	south Nablus	Beta Basic Coed School
W-5	W-9'	North Hebron	Noba Sec Boys School
W-6	W-10'	Hebron	Wad al Nasarah Basic Girls School
W-7	W-11'	South Hebron	Alsamoo' Basic Coed School
W-8	W-1'	Yatta	Al Dar AlBaida' Basic Coed school
W-9	W-2'	Qalqelia	Qalqelia basic boys school
W-10	W-7'	Qabatia	Qabatia Secondary Girls School
W-11	W-3'	Tulkarem	Bal'a Basic Girls School
Gaza Strip			
G-1	G-1'	North Gaza	Jam'ia Land Basic Coed School
G-2	G-2'	North Gaza	Halawa land Basic Boys School
G-3	G-3'	North Gaza	Moharbeen Al Kudama Girls School
G-4	G-5'	Khan younis	Osama El-Najar Basic Girls School
G-5	G-7'	Rafah	Salam Basic Coed School
G-6	-	Khan younis	Boraq Land 1 Secondary Girls School
G-7	-	East Khanyonis	Al Ouda Secondary Boys School
G-8	G-8'	Khan younis	Hamad city 1 Secondary Girls School

Site Location Map



West Bank Site Location Map



Gaza Strip Site Location Map



*Handwritten signature/initials*

Annex 2. Information on requested schools and feeder schools

[West Bank]

Priority	ID No. (Revised)	ID No. (W/D)	Governorate	School Name	Grade & Gender	No. of classrooms	Reason of the Request	Feeder School	Grade	Enrollment	Total in the catchment	No. of students to be transferred to the new school
1	W-1	W-6'	Yatta	Al Karmel Basic Boys School	1-4 Boys	12	Replace Rented	Al Karmel Basic Coed School Al Karmel Basic Boys School	1-4 1-4	562 235	797	314
2	W-2	W-4'	Qabatia	Meslieh Basic Coed School	1-4 Coed	8 + Kg	Replace Rented	Meslieh Basic Girls School Meslieh Secondary Boys School	1-4 1-12	115 331	446	233
3	W-3	W-5'	Nablus	Salem Sec Girls School	5-12 Girls	10	Replace bad classes	Salem Secondary Girls School	4-12	624	624	270
4	W-4	W-8'	South Nablus	Beta Basic Coed School	1-4 Coed 5-9 Girls	9 + Kg	Natural increase & mitigation of student no at crowded classes	Omar Bin Abdul Aziz Basic Coed School Beta Basic Coed (Only G1) School Beta Basic Girls School	1-4 1-9 1-9	112 572 565	1,249	242
5	W-5	W-9'	North Hebron	Noba Sec Boys School	10-12 Boys	12	Natural increase & mitigation of student no at crowded classes	Noba Secondary Boys School	7-12	367	367	223
6	W-6	W-10'	Hebron	Wad al Nasarah Basic Girls School	5-9 Girls	15	Natural increase & mitigation of student no at crowded classes	Al Zahra Basic Girls School Jerusalem Basic Girls School Johar Girls Primary School A Johar Girls Primary School B Fayhaa Basic Girls School Al Ma'aref Basic Girls School Taysir Mariqia Basic Girls School Noreen Basic Girls School Al Samou Basic Coed School	7-9 1-6 1-4 1-4 1-9 1-10 1-10 1-4	531 777 282 253 271 768 529 114	3,525	399
7	W-7	W-11'	South Hebron	Alsamoo' Basic Coed School	1-4 Coed 5-9 Girls	13 +Kg	Replace Rented, Natural increase	Muwaffaq al - Salti Basic Coed School Male Ibn Khalidun Basic School Khaleed Al Wazir Girls School	1-4 1-4 1-9	94 331 580	1,093	357
8	W-8	W-1'	Yatta	Al Dar AlBaida' Basic Coed school	1-4 Coed 5-9 Girls	13+ Kg	Rented school	Al Dar Al Baida Coed School Eim Maminin Girls School Hawa Secondary Girls School	1-4 5-6 7-12	236 216 453	905	438
9	W-9	W-2'	Qalqelia	Qalqelia basic boys school	1-9 Boys	18	Rented school, & crowded classes	Mohammad Abu Ghazaleh Basic Boys School Almorabteen Basic Boys School Turkish Basic Boys School Shuhada Coed Basic School Yousef Odah Coed Basic School Al-sadek Basic Boys School Palestine Basic Boys School Masout Basic Boys School	5-9 1-4 1-4 1-4 1-8 5-8 5-9 5-12	400 643 519 595 671 560 290 318	3,996	700
10	W-10	W-7'	Qabatia	Qabatia Secondary Girls School	1-12 Girls	12*	Natural increase & mitigation of student no at crowded classes	West Qabatia Basic Girls School West Qabatia Secondary Girls School	1-7 8-12	650 449	1,099	250
11	W-11	W-3'	Tulkarem	Bal'a Basic Girls School	5-9 Girls	10	Natural increase & mitigation of student no at crowded classes	Bal'a Higher Basic Girls School Bal'a Secondary Girls School	5-8 9-12	342 355	698	369

\*MoEHE explained that a kindergarten classroom is not necessary for W-10 school as there are enough number of private kindergartens nearby.

Annex 2. Information on requested schools and feeder schools

[Gaza Strip]

Priority	ID No. (Revised)	ID No. (M/D)	Governorate	School Name	Grade & Gender	No. of classrooms	Reason of the Request	Feeder School	Grade	Enrollment	Total in the catchment	No. of students to be transferred to the new school
1	G-1	G-1'	North Gaza	Jami'a Land Basic Coed School	1-4 Coed	20+Kg	To shorten commuting distance of students	Nusaiba Bent Kab (High) Basic Girls School A Nusaiba Bent Kab (High) Basic Girls School B Fahed Girls Secondary School Nour El Maref Privat School	8-10 8-10 6-12 1-10	538 555 1,052 389	2,534	824
2	G-2	G-2'	North Gaza	Halawa land Basic Boys School	1-9 Boys	20	Relieve overcrowding (Double shift)	Al Naqab Basic Boys School A Al Naqab Basic Boys School B Al Rafea Basic Boys School A Al Rafea Basic Boys School B	1-6 1-6 1-6 1-6	547 692 679 689	2,707	1,381
3	G-3	G-3'	North Gaza	Moharbeen Al Kudama Girls School	1-9 Girls	20+Kg	Relieve overcrowding (Double shift)	Awini Al Hertanin Co-ed School Sawari Secondary Girls School	1-6 7-12	606 617	1,223	606 or 959
4	G-4	G-5'	Khanyonis	Osama El-Najar Basic Girls School	1-9 Girls	20+Kg	Relieve overcrowding (Double shift)	Osama El Najar Basic Girls School A Osama El Najar Basic Girls School B	1-3 4-6	636 590	1,226	1,226
5	G-5	G-7'	Rafah	Salam Basic Coed School	1-4 Coed 5-9 Girls	16+Kg	Relieve overcrowding (Double shift)	Dair Yaseen Co-ed School A Dair Yaseen Co-ed School B	1-7 1-7	726 706	1,432	706
6	G-6	-	Khanyonis	Boraq Land 1 Secondary Girls School	10-12 Girls	22	To shorten commuting distance of students	New Khanyonis Primary Girls School (UNRWA) Al Amal Primary Girls School (UNRWA) Tabaria Secondary Girls School Eid Agha Basic Girls School	4-9 4-9 10-12 1-9	897 1,046 875 515	3,333	829
7	G-7	-	East Khanyonis	Al Ouda Secondary Boys School	10-12 Boys	22	To replace old school, To shorten commuting distance of students	Al Aouda Boys Secondary School Abed Al Kareem Al Kairmi Boys School B Abd Muhsen Qattan Boys School Ibn Nafees (Boys) School Ibn Othaimen Imam (Boys) School	10-12 8-9 5-9 1-9 1-9	599 681 522 349 349	2,500	1,061
8	G-8	G-8'	Khanyonis	Hamed city 1 Secondary Girls School	10-12 Girls	22	To shorten commuting distance of students	Qrara Primary Girls School (UNRWA) Allaboun Secondary School Eid Agha Basic Girls School	1-9 9-12 1-9	1,435 836 515	2,786	623

## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-1	AL KARMEL BASIC BOYS SCHOOL	Level		1-4 Boys		
		No. of CR		12		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		12	49.8	597.6
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					<b>184.8</b>
4-	Multi-purpose hall	40	0.49	1	50	50
5-	General Stores	-		2	20	40
6-	Toilet Stalls	-		1	49.8	49.8
7-	Canteen	-		1	16	16
8-	loby	-		1	60	60
10-	Resource room	-	-	1	35	35
	<b>Total</b>					<b>1098.2</b>
	Balance For Walls And Corridors 65% (estimate)					713.83
	<b>Total Built-up Area</b>					<b>1812.03</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-2	MESLIH BASIC COED SCHOOL	Level		1-4 Coed		
		No. of CR		8+Kg		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		8	49.8	398.4
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and coppier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					<b>184.8</b>
4-	Multi-purpose hall	40	0.49	1	50	50
5-	General Stores	-		2	20	40
6-	Toilet Stalls	-		1	49.8	49.8
7-	Canteen	-		1	16	16
8-	loby	-		1	60	60
10-	Resource room	-	-	1	35	35
11-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					<b>969</b>
	Balance For Walls And Corridors 65% (estimate)					<b>629.85</b>
	<b>Total Built-up Area</b>					<b>1598.85</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-3	SALEM SECONDARY GIRLS SCHOOL	Level	5-12 Girls
		No. of CR	10

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		10	49.8	498
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and coppier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					<b>184.8</b>
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
	Total					1131.6
	Balance For Walls And Corridors 65% (estimate)					735.54
	<b>Total Built-up Area</b>					<b>1867.14</b>
	<b>the total circulation area to not exceed 30%</b>					
	<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>					

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-4	BETA BASIC COED SCHOOL	Level	1-4 Coed 5-9 Gilrs
		No. of CR	9+Kg

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		9	49.8	448.2
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					184.8
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
11-	Resource room	-	-	1	35	35
12-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					1186.8
	Balance For Walls And Corridors 65% (estimate)					771.42
	<b>Total Built-up Area</b>					1958.22
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						




## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-5	NUBA SECONDARY BOYS SCHOOL	Level	10-12 Boys			
		No. of CR	12			
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		12	49.8	597.6
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and coppier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					<b>184.8</b>
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
	<b>Total</b>					<b>1231.2</b>
	Balance For Walls And Corridors 65% (estimate)					<b>800.28</b>
	<b>Total Built-up Area</b>					<b>2031.48</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-6	WAD ALNASARAH BASIC GIRLS SCHOOL	Level		5-9 Girls		
		No. of CR		15		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		15	49.8	747
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (74.7m2)			1.5	49.8	74.7
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and coppier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					209.7
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1.5	49.8	74.7
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
	Total					1430.4
	Balance For Walls And Corridors 65% (estimate)					929.76
	<b>Total Built-up Area</b>					<b>2360.16</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-7	AL SAMO'BASIC COED SCHOOL	Level		1-4 Coed		
		No. of CR		5-9 Girls		
				13 +Kg		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		13	49.8	647.4
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (15 m2)			1	15	15
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					<b>184.8</b>
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
11-	Resource room	-	-	1	35	35
12-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					<b>1386</b>
	<b>Balance For Walls And Corridors 65% (estimate)</b>					<b>900.9</b>
	<b>Total Built-up Area</b>					<b>2286.9</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-8	AL DAR ALBAIDA BASIC COED SCHOOL	Level		1-4 Coed 5-9 Gilrs		
		No. of CR		13+Kg		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		13	49.8	647.4
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and copier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					184.8
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab. + Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
11-	Resource room	-	-	1	35	35
12-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					1386
	Balance For Walls And Corridors 65% (estimate)					900.9
	<b>Total Built-up Area</b>					2286.9
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-9	QALQILIA BASIC BOYS SCHOOL	Level	1-9 Boys
		No. of CR	18

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		18	49.8	896.4
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (99.6m2)			2	49.8	99.6
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H.archive and copier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					234.6
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		2	49.8	99.6
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
11-	Resource room	-	-	1	35	35
	Total					1664.6
	Balance For Walls And Corridors 65% (estimate)					1081.99
	<b>Total Built-up Area</b>					2746.59
the total circulation area to not exceed 30%						
the circulation % =circulation area / (net used area for building ( excluding walls) + circulation						

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-10	QABATIA SECONDARY GIRLS SCHOOL	Level	1-12 Girls
		No. of CR	12*

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		12	49.8	597.6
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and coppier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					<b>184.8</b>
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	65
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
11-	Resource room	-	-	1	35	35
	<b>Total</b>					<b>1247.2</b>
	Balance For Walls And Corridors 65% (estimate)					<b>810.68</b>
	<b>Total Built-up Area</b>					<b>2057.88</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

\*MoEHE explained that a kindergarten classroom is not necessary for W-10 school as there are enough number of private kindergartens nearby.

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## Annex 3. Building Component Lists of the Candidate Sites (West Bank)

W-11	BALÁ BASIC GIRLS SCHOOL	Level		5-9 Girls		
		No. of CR		10		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		10	49.8	498
2-	Library including COMPUTER	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (49.8m2)			1	49.8	49.8
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (15 m2)			1	15	15
	H. archive and coppier			1	15	15
	I. Sport store					
	<b>Administration Unit area</b>					169.8
4-	Multi-purpose hall	40	0.49	1	50	50
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1	49.8	49.8
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
	Total					1116.6
	Balance For Walls And Corridors 65% (estimate)					725.79
	<b>Total Built-up Area</b>					<b>1842.39</b>
the total circulation area to not exceed 30%						
the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)						

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Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

G-1	Jam'ia Land Basic Coed School	Level		1-4 Coed		
		No. of CR		20 +Kg		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		20	49.8	996
2-	Library including computer lab	-		1	84	84
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (124.5m2)			2.5	49.8	124.5
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (30 m2)			2	15	30
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					274.5
4-	Multi-purpose hall	40	0.49	1	84	84
5-	General Stores	-		2	20	40
6-	Toilet Stalls	-		2.5	49.8	124.5
7-	Canteen	-		1	16	16
8-	lobby	-		1	60	60
9-	Resource room	-	-	1	35	35
10-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					1784
	Balance For Walls And Corridors 65% (estimate)					1159.6
	<b>Total Built-up Area</b>					<b>2943.6</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

G-2	Halawa land Basic Boys School	Level	1-9 Boys
		No. of CR	20

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		20	49.8	996
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (124.5m2)			2.5	49.8	124.5
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (30 m2)			2	15	30
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					<b>274.5</b>
4-	Multi-purpose hall	40	0.49	1	84	84
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		2.5	49.8	124.5
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
11-	Resource room	-	-	1	35	35
	<b>Total</b>					<b>1863</b>
	Balance For Walls And Corridors 65% (estimate)					1210.95
	<b>Total Built-up Area</b>					<b>3073.95</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

## Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

<b>G-3</b>	<b>Moharbeen Al Kudama Girls School</b>	<b>Level</b>	<b>1-9 Girls</b>
		<b>No. of CR</b>	<b>20 +Kg</b>

<b>Item</b>	<b>Academic and Communal</b>	<b>No. of Students per Unit</b>	<b>Frequency of use</b>	<b>No. of Units required</b>	<b>Net Area in m2 per Unit</b>	<b>Total Area in M2</b>
1-	Number of Classrooms ,40 students per one class	40		20	49.8	996
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (124.5m2)			2.5	49.8	124.5
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (30 m2)			2	15	30
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					<b>274.5</b>
4-	Multi-purpose hall	40	0.49	1	84	84
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		2.5	49.8	124.5
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
11-	Resource room	-	-	1	35	35
12-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					<b>1828</b>
	Balance For Walls And Corridors 65% (estimate)					<b>1188.2</b>
	<b>Total Built-up Area</b>					<b>3016.2</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

<b>G-4</b>	<b>Osama El-Najar Basic Girls School</b>	<b>Level</b>	<b>1-9 Girls</b>
		<b>No. of CR</b>	<b>20 +Kg</b>

<b>Item</b>	<b>Academic and Communal</b>	<b>No. of Students per Unit</b>	<b>Frequency of use</b>	<b>No. of Units required</b>	<b>Net Area in m2 per Unit</b>	<b>Total Area in M2</b>
1-	Number of Classrooms ,40 students per one class	40		20	49.8	996
2-	Library including computer lab	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (124.5m2)			2.5	49.8	124.5
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (30 m2)			2	15	30
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					<b>274.5</b>
4-	Multi-purpose hall	40	0.49	1	84	84
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		2.5	49.8	124.5
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
11-	Resource room	-	-	1	35	35
12-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					<b>1695</b>
	Balance For Walls And Corridors 65% (estimate)					<b>1101.75</b>
	<b>Total Built-up Area</b>					<b>2796.75</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

G-5	Salam Basic Coed School	Level	1-4 Coed 5-9 Girls
		No. of CR	16+Kg

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		16	49.8	796.8
2-	Library including computer lab	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (74.7m2)			1.5	49.8	74.7
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (15 m2)			1	15	15
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					209.7
4-	Multi-purpose hall	40	0.49	1	84	84
5-	Science lab+ Store+ prep.	40	0.98	1	84	84
6-	Technology lab (Computer space+Work space)	40	0.98	1	84	84
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		1.5	49.8	74.7
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
11-	Resource room	-	-	1	35	35
12-	Kinder garten 50m2					
	Toilets 12m2					
	Kitchen 8m2	-		1	70	70
	<b>Total</b>					1619.2
	Balance For Walls And Corridors 65% (estimate)					1052.48
	<b>Total Built-up Area</b>					<b>2671.68</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

G-6	Boraq Land 1 Secondary Girls School	Level		10-12 Girls		
		No. of CR		22		
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		22	49.8	1095.6
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (149.4m2)			3	49.8	149.4
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (30 m2)			2	15	30
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					299.4
4-	Multi-purpase hall	40	0.49	1	84	84
5-	Science lab+ Store+ prep.	40	0.98	2	84	168
6-	Technology lab (Computer space+Work space)	40	0.98	2	84	168
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		3	49.8	149.4
9-	Canteen	-		1	16	16
10-	loby	-		1	60	60
	Total					2145.4
	Balance For Walls And Corridors 65% (estimate)					1394.51
	<b>Total Built-up Area</b>					<b>3539.91</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

G-7	Al Ouda Secondary Boys School	Level	10-12 Boys
		No. of CR	22

Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		22	49.8	1095.6
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (149.4m2)			3	49.8	149.4
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G.Administration Toilets (30m2)			2	15	30
	H.archive and coppier			1	15	15
	I.Sport store			1	15	15
	<b>Administration Unit area</b>					299.4
4-	Multi-purpose hall	40	0.49	1	84	84
5-	Science Lab+ Store+ prep.	40	0.98	2	84	168
6-	Technology lab (Computer space+Work space)	40	0.98	2	84	168
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		2	49.8	99.6
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
	Total					2095.6
	Balance For Walls And Corridors 65% (estimate)					1362.14
	<b>Total Built-up Area</b>					<b>3457.74</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

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## Annex 3. Building Component Lists of the Candidate Sites (Gaza Strip)

G-8	Hamad city 1 Secondary Girls School	Level		10-12 Girls		
		No. of CR			22	
Item	Academic and Communal	No. of Students per Unit	Frequency of use	No. of Units required	Net Area in m2 per Unit	Total Area in M2
1-	Number of Classrooms ,40 students per one class	40		22	49.8	1095.6
2-	Library including computer	-		1	65	65
3-	<b>Administration Unit</b>					
	A. Headmaster Room(30 m2)			1	30	30
	B. First Aid (15m2)			1	15	15
	C. Door Keepers and Kitchen(10m2)			1	10	10
	D. Teachers Room (149.4m2)			3	49.8	149.4
	E. Social Worker(15m2)			1	15	15
	F. Secretary (20m2)			1	20	20
	G. Administration Toilets (30m2)			2	15	30
	H. archive and coppier			1	15	15
	I. Sport store			1	15	15
	<b>Administration Unit area</b>					299.4
4-	Multi-purpose hall	40	0.49	1	84	84
5-	Science Lab+ Store+ prep.	40	0.98	2	84	168
6-	Technology lab (Computer space+Work space)	40	0.98	2	84	168
7-	General Stores	-		2	20	40
8-	Toilet Stalls	-		2	49.8	99.6
9-	Canteen	-		1	16	16
10-	lobby	-		1	60	60
	<b>Total</b>					2095.6
	Balance For Walls And Corridors 65% (estimate)					1362.14
	<b>Total Built-up Area</b>					<b>3457.74</b>
<b>the total circulation area to not exceed 30%</b>						
<b>the circulation % =circulation area / (net used area for building ( excluding walls) + circulation area)</b>						

Handwritten initials/signature.



## Furniture Lists

No.	Item	Classroom	Headmaster Room	Secretary Room	Teacher Room	Social Worker Room	Science Lab	Technology Lab (Computer)	Technology Lab (Work)	Fast Aid	Library	Multi Purpose Room	Resource Room	Kindergarten Room
Group A Include :														
A-1	Student Desk4	20	-	-	-	-	-	-	-	-	-	-	-	-
A-2	Student Chair4	40	-	-	-	-	-	-	-	-	-	-	-	-
Group B Include :														
B-1	Student Desk5	20	-	-	-	-	-	-	-	-	-	-	-	-
B-2	Student Chair5	40	-	-	-	-	-	-	-	-	-	-	-	-
Group C Include :														
C-1	Student Desk6	20	-	-	-	-	-	-	-	-	-	-	-	-
C-2	Student Chair6	40	-	-	-	-	-	40	-	-	40	-	-	-
Group D Include :														
D-1	Teacher Desk (Classroom)	1	-	-	-	-	-	-	-	-	-	-	-	-
D-2	Teacher Desk (Staff room)	-	-	-	15	-	-	-	-	-	-	-	-	-
D-3	Teacher Chair	1	-	-	15	-	-	1	-	-	-	-	-	-
Group E Include :														
E-1	Reading Table	-	-	-	-	-	-	-	-	-	6	8	-	-
E-2	Working Table	-	-	-	-	-	-	-	-	-	-	-	-	-
E-3	Computer Table(Student)	-	-	-	-	-	-	21	-	-	-	-	-	-
E-4	Stool Chair	-	-	-	-	-	41	-	-	-	-	-	-	-
E-5	Examination Bed	-	-	-	-	-	-	-	-	1	-	-	-	-
E-6	Curation for Patient	-	-	-	-	-	-	-	-	1	-	-	-	-
Group F Include :														
F-1	Headmaster/Officer Desk	-	1	1	-	1	-	-	-	1	1	-	-	-
F-2	Set of Middle Table	-	1	-	-	-	-	-	-	-	-	-	-	-
F-3	Book Shelves	-	-	-	-	-	-	-	-	-	10	-	-	-
F-4	Wooden Closet Shelves with Two Bottom Doors	-	2	-	-	-	-	-	-	-	-	-	-	-
F-5	Headmaster/Officer Chair	-	1	1	-	1	-	-	-	1	1	-	-	-
F-6	Visitor Chair (Wood/Chrome)	-	6	-	-	-	-	-	-	-	-	-	-	-
F-7	Multipurpose Chair	-	-	6	-	6	-	-	-	2	2	100	-	-
Group G Include :														
G-1	Metal File Cabinet (4 Drawers)	-	1	1	-	1	-	-	-	1	-	-	-	-
G-2	Metal Cabinet (2 Doors)	1	-	1	-	-	-	-	-	-	-	1	-	-
G-3	Metal Cabinet (12 Doors)	-	-	-	2	-	-	1	-	-	-	-	-	-
G-4	Lab Locker	-	-	-	-	-	8	-	-	-	-	-	-	-
G-5	Sport Cabinet	-	-	-	-	-	-	-	-	-	-	2	-	-
Group H (Resource Room) Include :														
H-1	Student Desk	-	-	-	-	-	-	-	-	-	-	-	7	-
H-2	Student Chair	-	-	-	-	-	-	-	-	-	-	-	7	-
H-3	Computer Table	-	-	-	-	-	-	-	-	-	-	-	1	-
H-4	Teacher Desk (Classroom)	-	-	-	-	-	-	-	-	-	-	-	1	-
H-5	Teacher Chair	-	-	-	-	-	-	-	-	-	-	-	1	-
H-6	Wooden Closet Shelves with Two Bottom Doors	-	-	-	-	-	-	-	-	-	-	-	2	-
Group I (Technology lab) Include :														
I-1	Student Chair 6	-	-	-	-	-	-	-	-	-	-	-	-	-
I-2	Stool Chair	-	-	-	-	-	-	-	20	-	-	-	-	-
I-3	Teacher Desk (Classroom)	-	-	-	-	-	-	-	1	-	-	-	-	-
I-4	Teacher Chair	-	-	-	-	-	-	-	1	-	-	-	-	-
Group J (Technology Lab) Include :														
J-1	Technology Lab Bench	-	-	-	-	-	-	-	3	-	-	-	-	-
J-2	Lab Locker	-	-	-	-	-	-	-	2	-	-	-	-	-
J-3	Metal Cabinet (2 Doors)	-	-	-	-	-	-	-	1	-	-	-	-	-
J-4	Computer Table	-	-	-	-	-	-	-	-	-	-	-	-	-
Group K (Kindergarten Room) Include :														
K-1	Round Table	-	-	-	-	-	-	-	-	-	-	-	-	6
K-2	Kindergarten Chair	-	-	-	-	-	-	-	-	-	-	-	-	30
K-3	Wood shelf/Compartments	-	-	-	-	-	-	-	-	-	-	-	-	4
K-4	Stories Wood Shelf	-	-	-	-	-	-	-	-	-	-	-	-	4

This furniture list indicates the request of furniture for the school of West Bank. However, the number of furniture and the specification are not finalized perfectly yet. In addition, furniture list and the specification for the school of Gaza Strip are not yet submitted to the Consultant.

## Equipment Lists

## 1) ICT Equipment for Classroom

Academic/Communal	Equipment	Q'ty for 1 school	Target range to be considered	Relatively low priority
FOR West Bank				
Classroom	Tablet with a keyboard	1 for student	All G-5 and G-6 students	
	Laptop Computer for teacher	1 for teacher	All G-5 and G-6 teachers ~All grades teachers	
	Interactive Projector	1 for classroom	All G-5 and G-6 classrooms ~All grades classrooms	
FOR Gaza Strip				
Classroom	Laptop Computer for teacher	1 for each subject(the faculty of the same subject shares one laptop Computer	All G-5 and G-6 teachers ~All grades teachers	

## 2) Equipment for Library

Academic/Communal	Equipment	Q'ty for 1 school				Relatively low priority
		1-4 grade		5-12 grade		
		West Bank	Gaza Strip	West Bank	Gaza Strip	
Library	Computer	9	9	1	1	
	Network System	1	1	.	.	
	Interactive Projector	1	1	1	1	

## 3) Equipment for Administration

Academic/Communal	Equipment	Q'ty for 1 school	Relatively low priority
Administration Unit			
Headmaster Room	Computer	1	
	Laser Printer	1	
Door Keepers and Kitchen	Boiler	1	○
	Gas Range	1	○
Teachers Room	Computer	2	
Secretary Room	Computer	1	
	Copier	1	
	Laser Printer	1	
	Paper Shredder	1	○
	Electrical Cleaning Machine	1	○
Sport Store	Mattress	10	
	Ball set (Basketball, Football and volleyball)	1	
	Badminton Set	10	
	Table Tennis Set	3	

## 4) Equipment for Multi-purpose Hall

Academic/Communal	Equipment	Q'ty for 1 school	Relatively low priority
Multi-purpose Hall	LCD Projector	1	
	Sound System Set	1	
	Lap top Computer	1	

## 5) Scientific Laboratory Equipment

Academic/Communal	Equipment	1-4 Grade		5-9 Grade		10-12 Grade		Q'ty for 1 school	Relatively low priority
		West Bank	Gaza Strip	West Bank	Gaza Strip	West Bank	Gaza Strip		
Science Lab	Lap top Computer					○	○	1	
	Color printer					○	○	1	
	LCD projector					○	○	1	
	Ball and Ring			○	○	○	○	6	
	Bar Magnet	○	○	○	○	○	○	6	
	Bell Jar with pump-plastic			○	○	○	○	1	
	Compass(pocket)	○	○	○	○	○	○	6	
	Compound Bar			○	○	○	○	3	
	Dynamo Hand Operated	○	○	○	○	○	○	3	
	Ebonite Rod (Pair)	○	○	○	○	○	○	3	
	Glass Rod (Pair)	○	○	○	○	○	○	3	
	Electronic Balance			○	○	○	○	6	
	Electroscope	○	○	○	○	○	○	6	
	Heat Conduction Apparatus			○	○	○	○	6	
	High voltage power supply					○	○	1	
	U - Shape Magnet	○	○	○	○	○	○	6	
	Lens Set	○	○	○	○	○	○	3	
	Linear Air Track Kit			○	○	○	○	1	
	Low Voltage Power Supply			○	○	○	○	6	
	Magnetic Field Chamber			○	○	○	○	3	
	Micrometer			○	○	○	○	6	
	Mirrors	○	○	○	○	○	○	6	
	Ripple Tank			○	○	○	○	1	
	Rushkoff Commutator			○	○	○	○	1	
	Slotted masses with hanger	○	○	○	○	○	○	3	
	Spring Balance Set	○	○	○	○	○	○	3	
	System To study Free Fall			○	○	○	○	1	
	Tellurium	○	○	○	○	○	○	1	
	Tuning Forks on Resonance Box			○	○	○	○	3	
	Tuning Forks	○	○	○	○	○	○	3	
	Van de Graff Generator			○	○	○	○	1	
	Vernier Caliper			○	○	○	○	6	
	Clamp, Universal	○	○	○	○	○	○	3	
	Double 45 Clamp	○	○	○	○	○	○	6	
	Rocks and Minerals Set	○	○	○	○	○	○	1	
	Stand ring	○	○	○	○	○	○	6	
	Tools set			○	○	○	○	1	
	Displacement vessel			○	○	○	○	6	
	Equal volume metal cubes			○	○	○	○	6	
	Simple Pendulum set			○	○	○	○	6	
	Linear Expansion Apparatus			○	○	○	○	6	
	Calorimeter Set			○	○	○	○	3	
	Demountable Transformer					○	○	1	
	Force Table			○	○	○	○	1	
	Laser Geoptic set			○	○	○	○	3	
	Hook's Law			○	○	○	○	6	
	Hope's Apparatus			○	○	○	○	1	
	Moving Coil Galvanometer ( Microammeter)			○	○	○	○	6	
	Multimeter Digital			○	○	○	○	6	
	Optical Bench Set			○	○	○	○	1	
	Solar energy unit	○	○	○	○	○	○	6	
	Periodic Table of elements			○	○	○	○	1	
	Retort stand	○	○	○	○	○	○	6	
	Tripod stand	○	○	○	○	○	○	6	
	Basics of Electricity & Electronics kit					○	○	6	
	Light Refraction Apparatus			○	○	○	○	6	
	Lever Set			○	○	○	○	3	
	Force Between Two Parallel Currents Demonstrator					○	○	1	
	Apparatus to show force on a conductor in a magnetic field					○	○	3	
	Induction coils					○	○	6	
	Wire Gauze ,Ceramic center	○	○	○	○	○	○	6	
	Wash bottle			○	○	○	○	6	
	Simple circuits kit			○	○			6	
	Digital Vernier Caliper			○	○	○	○	3	
	2D magnetic field demonstrator			○	○	○	○	6	
	Fire Extinguisher			○	○	○	○	1	
	Hoffman Apparatus			○	○	○	○	3	

Academic/Communal	Equipment	1-4 Grade		5-9 Grade		10-12 Grade		Qty for 1 school	Relatively low priority
		West Bank	Gaza Strip	West Bank	Gaza Strip	West Bank	Gaza Strip		
	Hydrometer			○	○	○	○	6	
	Hygrometer (wet and dry)			○	○	○	○	3	
	Lab Burner-Gas Cartridge			○	○	○	○	6	
	Spectral Gas Tubes					○	○	1	
	Atomic structure Model			○	○	○	○	3	
	Beakers	○	○	○	○	○	○	3	
	Burette			○	○	○	○	3	
	Burette Clamp			○	○	○	○	3	
	Distillation Apparatus			○	○	○	○	3	
	Erlenmeyer Flask	○	○	○	○	○	○	3	
	Graduated Cylinder	○	○	○	○	○	○	3	
	Pipette			○	○	○	○	3	
	Pipette Filler			○	○	○	○	3	
	Portable pH Meter			○	○	○	○	6	
	Test Tube			○	○	○	○	1	
	Test Tube Rack			○	○	○	○	6	
	Thermometers	○	○	○	○	○	○	3	
	Dissecting Set			○	○	○	○	1	
	Human Brain Model			○	○	○	○	1	
	Human Circulatory System Charts	○	○	○	○	○	○	1	
	Human Digestive System Chart	○	○	○	○	○	○	1	
	Human Ear Model	○	○	○	○	○	○	1	
	Human Eye Model	○	○	○	○	○	○	1	
	Human Heart Model	○	○	○	○	○	○	1	
	Human Kidney Model			○	○	○	○	1	
	Human Muscular System Chart	○	○	○	○	○	○	1	
	Human Nervous System Chart			○	○	○	○	1	
	Human Respiratory System Chart	○	○	○	○	○	○	1	
	Human Skeleton Model	○	○	○	○	○	○	1	
	Human Torso (sex less)			○	○	○	○	1	
	Human Urinary System Chart	○	○	○	○	○	○	1	
	Monocular Microscope			○	○	○	○	6	
	Stereomicroscope			○	○	○	○	3	
	Digital blood pressure monitor			○	○	○	○	3	
	Human teeth model	○	○	○	○	○	○	1	
	Microscope slide set			○	○	○	○	3	
	DNA Model			○	○	○	○	3	
	Crucible with Lid			○	○	○	○	3	
	Stir Rod, Borosilicate Glass			○	○	○	○	1	
	Hand Magnifier	○	○	○	○	○	○	6	
	Safety Glasses			○	○	○	○	40	
	Glass Microscope Slides Plain			○	○	○	○	3	
	Glass Cover Slips			○	○	○	○	6	
	Dissecting Pan	○	○	○	○	○	○	3	
	Meter Rule Meter stick	○	○	○	○	○	○	3	
	Inclined Plane	○	○	○	○	○	○	3	
	Banana Plug Lead Stackable	○	○	○	○	○	○	1	
	Alligator Crocodile Clip Lead Medium Red and Black	○	○	○	○	○	○	1	
	Carbon Electrode Round			○	○	○	○	1	
	Prism Glass Equilateral			○	○	○	○	6	
	Prism Glass Right Angle			○	○	○	○	6	
	Slinky Spring Metal			○	○	○	○	3	
	Pipette Pump			○	○	○	○	6	
	Alcohol Lamp Burner	○	○	○	○	○	○	6	
	Manometer Demonstration			○	○	○	○	3	
	U' Shape Tube			○	○	○	○	6	
	Glass Funnel Borosilicate Glass			○	○	○	○	6	
	Borosilicate Glass Tube	○	○	○	○	○	○	1	
	Wooden Test tube holder			○	○	○	○	6	
	Digital Camera Eyepiece			○	○	○	○	6	
	Tablet for Data Logging					○	○	1	
	Portable data logger					○	○	1	
	Original Software for data logging and analyzing					○	○	1	
	Sensors Set (16pcs.)					○	○	1	
	Experiments Accessories Set					○	○	1	
	Chemical	○		○		○		1	○

## 6) Technology Laboratory Equipment

Academic/Communal	Equipment	5-9grade		10-12 grade		Q'ty for 1 school	Relatively low priority
		West Bank	Gaza Strip	West Bank	Gaza Strip		
Technology Lab	Hammer Drill	○	○	○	○	2	
	Angle Grinder	○	○	○	○	1	
	Jig Saw	○	○	○	○	2	
	Scroll Saw	○	○	○	○	2	
	Drill/Driver	○	○	○	○	6	
	Circular Saw	○	○	○	○	1	
	Combination Mire/Table Saw	○	○	○	○	1	
	Router	○	○	○	○	1	
	Belt Sander	○	○	○	○	1	
	Finishing Sander	○	○	○	○	1	
	Drill Press	○	○	○	○	1	
	Benchtop Abrasive Cutoff Saw	○	○	○	○	1	
	Meuleuse Double	○	○	○	○	1	
	13" Mini Wood Lathe	○	○	○	○	1	
	Power Supply AC & DC	○	○	○	○	6	
	Electric Welding	○	○	○	○	1	
	Combination pliers 7"	○	○	○	○	6	
	Diagonal Cutting Pliers	○	○	○	○	6	
	Long Nose Pliers	○	○	○	○	6	
	Wire Stripping Pliers 6"	○	○	○	○	6	
	Water Pump Pliers 10"	○	○	○	○	6	
	Tower Pincers	○	○	○	○	6	
	Caustic welding tin	○	○	○	○	6	
	Soldering Gun	○	○	○	○	1	
	Adjustable Helping Hand with Magnifying Glass	○	○	○	○	7	
	Utility Knife	○	○	○	○	6	
	Meters measure	○	○	○	○	6	
	Claw Hammer	○	○	○	○	6	
	Hammer	○	○	○	○	6	
	Phillips Screwdriver set	○	○	○	○	6	
	Stubby Screwdriver set	○	○	○	○	6	
	Voltage Tester	○	○	○	○	6	
	Safety Goggles & Ear Muffs & Goggles	○	○	○	○	20	
	Steel Cantilaver Tool Box	○	○	○	○	8	
	Multifunctional Parts Storage Box	○	○	○	○	4	
	26 Drawer Storage Cabinet	○	○	○	○	4	
	Sockets sets 1/4"	○	○	○	○	6	
	Combination Wrench Set	○	○	○	○	6	
	Screwdriver Bits set 1/4"	○	○	○	○	6	
	Step Drill Bit set	○	○	○	○	2	
	Wood Flat Drills Bits	○	○	○	○	2	
	Rubber Hammer	○	○	○	○	6	
	Tool Hex Set	○	○	○	○	6	
	Hand saw for metal cutting 12"	○	○	○	○	6	
	Hand copying saw	○	○	○	○	6	
	Back Saw	○	○	○	○	6	
	Combination Saw	○	○	○	○	6	
	Adjustable Wrenches set	○	○	○	○	6	
	Hot Glue Gun	○	○	○	○	6	
	Carpenters Square	○	○	○	○	6	
Bevel Gage	○	○	○	○	6		
Rasp for wood	○	○	○	○	6		
Curved Jaw Locking Pliers	○	○	○	○	6		
Smoothing Plane #4	○	○	○	○	6		
Hand Riveter and Aluminum Rivets Set	○	○	○	○	2		
Straight Chisel Set	○	○	○	○	6		
F Clamp	○	○	○	○	10		
Offset Tin Snips	○	○	○	○	6		
Magnetic Torpedo Level	○	○	○	○	6		
Steel Bench Vise	○	○	○	○	2		
Clamp-on Vises	○	○	○	○	6		
Staple Gun	○	○	○	○	6		

Academic/Communal	Equipment	5-9grade		10-12 grade		Q'ty for 1 school	Relatively low priority
		West Bank	Gaza Strip	West Bank	Gaza Strip		
	Drill Bit Set	○	○	○	○	6	
	Hole Saw set	○	○	○	○	2	
	Electronic Kits	○	○	○	○	10	
	FIRST LEGO LEAGUE System	○	○	○	○	1	
	Arduino Uno Microprocessor			○	○	10	
	Stepper Motor Drive			○	○	10	
	Bluetooth Module			○	○	10	
	Jumper Cables for Arduino Breadboard	○	○	○	○	6	
	Smart Robot Car Chassis Kit			○	○	10	
	Hand Held Digital Multi-meter	○	○	○	○	10	
	Test Board	○	○	○	○	15	
	Flat Head Wood Screws set (type A)	○	○	○	○	1	
	Flat Head Wood Screws set (type B)	○	○	○	○	1	
	Flat Head Wood Screws set (type C)	○	○	○	○	1	
	Iron Panel Pins (type A)	○	○	○	○	1	
	Iron Panel Pins (type B)	○	○	○	○	1	
	Iron Panel Pins (type C)	○	○	○	○	1	
	Phillips Pan Head Sheet Metal (type A)	○	○	○	○	1	
	Phillips Pan Head Sheet Metal (type B)	○	○	○	○	1	
	Phillips Pan Head Sheet Metal (type C)	○	○	○	○	1	
	Chemical Capacitors	○	○	○	○	200	
	Ceramic Capacitors	○	○	○	○	200	
	Resistors	○	○	○	○	250	
	Variable Resistor	○	○	○	○	200	
	Voltage Dependent Resistor (VDR)	○	○	○	○	50	
	Light Dependent Resistor (LDR)	○	○	○	○	50	
	Diode	○	○	○	○	160	
	Light Emitting LED	○	○	○	○	500	
	Zener Diode	○	○	○	○	200	
	Fuse Box	○	○	○	○	100	
	Thyrmistor	○	○	○	○	100	
	Soldering Tin Wire Reel	○	○	○	○	50	
	Switches (type A)	○	○	○	○	20	
	Switches (type B)	○	○	○	○	20	
	Switches (type C)	○	○	○	○	20	
	Switches (type D)	○	○	○	○	20	
	Switches (type E)	○	○	○	○	20	
	Ic Timer	○	○	○	○	50	
	Transistor	○	○	○	○	200	
	IC TTL	○	○	○	○	125	
	IC LM386	○	○	○	○	10	
	IC LM324	○	○	○	○	10	
	IC LM311	○	○	○	○	10	
	IC LM35	○	○	○	○	10	
	LM 7805, 7812	○	○	○	○	10	
	TDI 2003	○	○	○	○	10	
	IR-Rx	○	○	○	○	20	
	IR-Tx	○	○	○	○	20	
	7- Segment			○	○	10	
	Relay (type A)	○	○	○	○	20	
	Relay (type B)	○	○	○	○	20	
	Relay (type C)	○	○	○	○	20	
	Relay (type D)	○	○	○	○	20	
	Relay (type E)	○	○	○	○	10	
	Microswitch with Lever	○	○	○	○	12	
	Circuit breakers	○	○	○	○	10	
	Electrical Distribution Board	○	○	○	○	1	
	Switch	○	○	○	○	12	
	Speakers	○	○	○	○	50	
	Microphone	○	○	○	○	50	
	DC Motor	○	○	○	○	50	
	Electric Socket	○	○	○	○	10	
	OPTO Isolator			○	○	50	

Academic/Communal	Equipment	5-9 grade		10-12 grade		Q'ty for 1 school	Relatively low priority
		West Bank	Gaza Strip	West Bank	Gaza Strip		
	Digital Oscilloscope	○	○	○	○	5	
	Stepper Motor	○	○	○	○	50	

7) Computer Equipment

Academic/Communal	Equipment	5-9 grade		10-12 grade		Q'ty for 1 school		Relatively low priority
		West Bank	Gaza Strip	West Bank	Gaza Strip	West Bank	Gaza Strip	
PC Room	Desktop Computer	○		○		about 20	-	
	Laptop Computer		○		○	-	about 20	
	Network Multifunctional Laser Printer	○	○	○	○	about 3	about 2	
	Interactive Projector	○	○	○	○	1	1	
	Network Equipment Set (Switch POE and Distribution Cabinet and Complete Network Point and Enterprise Access Point with Plastic Box and Firewall)	○	○	○	○	1	1	
	Office Pro 2016 Educational	○	○	○	○	about 20	about 20	
	Arduino software			○	○	about 20	about 20	
	Arduino & Bluetooth Simulation Library			○	○	about 20	about 20	
	Sql server 2012 SP2 Express			○	○	about 20	about 20	
	Visual Studio 2015 ( VB.net + ASP.net)			○	○	about 20	about 20	
	Appinventor software			○	○	about 20	about 20	
	Web page maker			○	○	about 20	about 20	
	SketchUp software			○	○	about 20	about 20	
	InkSpace			○	○	about 20	about 20	
	Gimp			○	○	about 20	about 20	
	Audacity 1			○	○	about 20	about 20	
	VSDC			○	○	about 20	about 20	
	Proetus 8.6			○	○	about 20	about 20	
	Arduino C			○	○	about 20	about 20	
	Scratch 2	○	○			about 20	about 20	
Scribus	○	○			about 20	about 20		
Google web designer	○	○			about 20	about 20		
Visual Basic	○	○			about 20	about 20		

8) Equipment for Resource Room

Academic/Communal	Equipment	West Bank	Gaza Strip	Q'ty for 1 school	Relatively low priority
Resource Room	Computer	○	○	1	
	Three in one printer	○	○	1	
	Interactive Projector	○		1	
	Educational toys set	○	○	1	
	Educational Tools Set	○	○	1	
	Musical Kit	○	○	1	
	Bookbinding Machine	○	○	1	
	Mirror	○	○	1	

9) Other

Academic/Communal	Equipment	Q'ty for 1 school	Relatively low priority
Best Location for WiFi covered area(administration rooms, library and G-5 and G-6 classrooms)	Enterprise Access Point with Plastic Box	Proper Q'ty	

Handwritten signature or initials.

## Furniture and Equipment List for Kindergarten

Academic/Communal	Equipment	West Bank	Gaza Strip	Q'ty for 1 school	Relatively low priority
Kindergarten	Round Table	○	○	5	
	Chair	○	○	30	
	Wood Shelf (type A)	○	○	2	
	Wood Shelf (type B)	○	○	1	
	Sponge Mattress	○	○	1	
	Brashout	○	○	5	○
	Jumping Bag	○	○	2	○
	Bed Room Set	○	○	1	
	Medical Corner Set	○	○	1	
	Kitchen Corner(Oven)	○	○	1	
	Kitchen Corner(Refrigerator)	○	○	1	
	Kitchen Corner(Sink)	○	○	1	
	Kitchen Corner(Washing Machine)	○	○	1	
	Kitchen Corner(Kitchen Closet)	○	○	1	
	Colors Puzzle	○	○	1	
	Before and After Puzzle	○	○	1	
	Shape and Shade Puzzle	○	○	1	
	Job and Tools Puzzle	○	○	1	
	Relation Puzzle	○	○	1	
	Opposite Puzzle	○	○	1	
	Sewing Beads Set	○	○	1	
	Beads Box	○	○	1	
	Musical Kit	○	○	1	
	Wood Geometric Shapes	○	○	1	
	Large Beads Toy	○	○	1	
	Laptop Computer	○	○	1	
	Interactive Projector	○		1	
	Three in one printer	○	○	1	
	Swing (2 persons)	○	○	1	○
	Seesaw	○	○	1	○
Slide	○	○	1	○	



State of Palestine  
Ministry of Education & Higher Education  
D. G of Buildings



دولة فلسطين  
وزارة التربية والتعليم العالي  
الإدارة العامة للأبنية

Ref No.: 21/1/8026

Date: 3/3/2019

## Certificate

By this letter, MEHE certifies that the following sites in West Bank are safe and secured for the construction process:

- 1- Al Dar AlBaida' Basic Coed school
- 2- Meslieh Basic Coed School
- 3- Salem Sec Girls School
- 4- Beta Basic Coed School
- 5- Noba Sec Boys School
- 6- New school at wad al Nasarah
- 7- Alsamoo' Basic Boys School
- 8- Al Karmel Basic Boys School
- 9- Qalqelia basic boys school
- 10- New school at Qabatia Sec girls school
- 11- Bal'a School Basic Girls

Best Regards

Fakhri Safadi

D. G of Buildings





Ref : 1J/2019

Date : 28/02/2019

## Certificate

By This letter , MEHE certefies that, the following sites and all surrounding areas are safe and secured (Land minning ,Uxo, etc....) to be used for the construction of the following schools at Gaza Strip :

- 1- New School at Salam Area
- 2- Rebuilding Awda School
- 3- New School at Boraq Land
- 4- New School at Hamad City
- 5- Rebuilding Osama Najar School
- 6- New School in Halawa Land
- 7- New School in M uharbeen Qudama Land
- 8- New School in Jam'ia Land
- 9- Rebuilding Qahera School

*Best Regards*

**Jamal Abd El Bari**

**The Manager of  
Directorate General for Buildings**

محمد عبد الباري  
C.19/2019



## Requested Documents List

No.	Name of the document	Note
1.	Land ownership documents	The documents in the following sites are required. <ul style="list-style-type: none"> <li>• W-3 Salem Sec Girls School</li> <li>• W-4 Bata Basic Coed School</li> <li>• G-6 New School at Boraq Land 1</li> <li>• G-8 Hamad city1</li> </ul>
2.	Faculty (Teacher) placement plan	The document in the following site is required. <ul style="list-style-type: none"> <li>• G-1 Jam'ia Land-Mas'od street Jabalia</li> </ul>
3.	Enrollment statistics of Khaleed Al Wazir Girls School (a feeder school of W-7: Alsamoo' Basic Coed School	The following statistical information is required: Number of Students by Grade from 2014/15- 2018/19 (past 5 years)
4.	Area Category Information on all candidates sites in West Bank	The document is required to issue the letter by MoEHE after confirming area category information by the related authorities in PA.
5.	List and specification of furniture	Documents of followings are required West Bank <ul style="list-style-type: none"> <li>• Specification of furniture for Technology Lab, Resource Room and Kindergarten Room</li> <li>• Gaza Strip</li> <li>• List of all furniture</li> <li>• - Specification of all furniture</li> </ul>
6.	List of Supplier for Equipment	The following supplier (3-5 companies) Data (company name, TEL, E-mail, Contact person) are required for West Bank and Gaza strip: <ul style="list-style-type: none"> <li>• Computer companies(Desk top, Laptop, Tablet, Printer, etc.)</li> <li>• Computer Network Equipment companies(Switch, Access point, Firewall, etc.)</li> <li>• Computer Software Companies (Software for Technology Lab such as Arduino software, VSDC, Scratch2,etc.)</li> </ul>

		<ul style="list-style-type: none"> <li>▪ ITC equipment companies(Interactive projector, LED projector, etc.)</li> <li>▪ Companies of Sports Equipment</li> <li>▪ Electrical appliances Companies (such as Water Boiler, Gas Range for kitchen, Copier, Electrical Vacuum Cleaner, Sound System, etc.)</li> <li>▪ Stationary equipment companies(Paper Shredder, Bookbinding machine, Mirror for resource room (1.5mx1m approx.), etc.)</li> </ul>
7.	Specifications of Equipment	<p>The following specifications are required:</p> <ul style="list-style-type: none"> <li>▪ Resource room equipment (Educational toys set, Educational tools set, Bookbinding Machine and Mirror)</li> <li>▪ Equipment for sport store (Mattress, Ball set(Basketball, Football and Volleyball), Badminton set and Table tennis set)</li> <li>▪ Water Boiler, Gas range for kitchen, Paper shredder, Electrical Vacuum Cleaner and Sound System for Multi-purpose hall</li> </ul>
8.	List of School Construction Project in the Past 5 Years	<p>The list of all school construction project by MoEHE, development partners or NGO in both West bank and Gaza strip in the past 5 years is required. The following information shall be included in the list.</p> <ul style="list-style-type: none"> <li>▪ Location</li> <li>▪ School name</li> <li>▪ Number of classroom</li> <li>▪ Facility</li> <li>▪ Total floor area</li> <li>▪ Construction cost</li> </ul>

END


## 添付資料4－3 協議議事録（現地調査Ⅱ）

**Minutes of Discussions**  
**on the Preparatory Survey for the Project for the Construction of Schools for**  
**Improvement of Quality and Environment of Education**  
**(Explanation on Draft Preparatory Survey Report)**

With reference to the minutes of discussions signed between Ministry of Education (hereinafter referred to as "MoE" and the Japan International Cooperation Agency (hereinafter referred to as "JICA") on February 21<sup>st</sup>, 2019 and in response to the request from the Palestinian Authority (hereinafter referred to as "Palestine") dated October 7<sup>th</sup>, 2019, JICA dispatched the Preparatory Survey Team (hereinafter referred to as "the Team") for the explanation of Draft Preparatory Survey Report (hereinafter referred to as "the Draft Report") for the Project for the Construction of Schools for Improvement of Quality and Environment of Education (hereinafter referred to as "the Project").

As a result of the discussions, both sides agreed on the main items described in the attached sheets.

Ramallah, November 28, 2019



Mr. Kazuro Shibuya

Leader

Preparatory Survey Team

Japan International Cooperation Agency

Japan

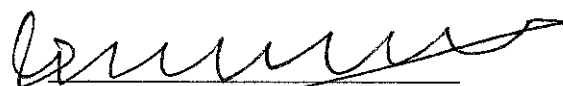


Dr. Marwan Awartani

Minister

Ministry of Education

The Palestinian Authority



Dr. Shukry Bishara

Minister

Ministry of Finance

The Palestinian Authority

## ATTACHEMENT

1. Project site

Both sides confirmed that the list of the sites of the Project as shown in Annex 1.

2. Contents of the Draft Report

After the explanation of the contents of the Draft Report by the Team, the Palestine side agreed to its contents.

3. Cost estimate

Both sides confirmed that the cost estimate including the contingency explained by the Team is provisional and will be examined further by the Government of Japan for its approval. The contingency would cover the additional cost against natural disaster, unexpected natural conditions, fluctuation of exchange rate, etc.

4. Confidentiality of the cost estimate and technical specifications

Both sides confirmed that the cost estimate and particular specifications and drawings of the Project should never be disclosed to any third parties until all the contracts under the Project are concluded.

5. Procedures and Basic Principles of Japanese Grant

5-1 The Palestine side agreed that the procedures and basic principles of Japanese Grant (hereinafter referred to as "the Grant") as described in Annex 3 shall be applied to the Project. In addition, the Palestine side agreed to take necessary measures according to the procedures.

5-2 Eligible nationality

The eligible nationality of consultant shall be Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons, in the case of the consultant that will contract directly with the Recipient for the implementation of the Project.

The eligible nationality of the contractor(s)/supplier(s) shall be nationals of Palestine

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or juridical persons incorporated and registered in Palestine who have their appropriate facilities for producing or providing the products and/or services in Palestine and actually conduct their business there, in the case of the other Supplier(s) that will contract directly with the Recipient for the implementation of the Project.

#### 5-3 Flow of payment and currency of payment to prime contractor(s)

The Palestine side understood the flow of payment as shown in Annex 4 and confirmed to take necessary measures for the payment in a timely manner. The Palestine explained that it will nominate “the Bank of Palestine” as the “Recipient Bank” that conclude the banking arrangement (hereinafter referred to as “the Banking Arrangement”) with a bank in Japan (hereinafter referred to as “the Agent Bank”).

The Palestine side agreed that the currency for contract of prime construction and/or procurement firms is internationally traded foreign currency acceptable to JICA, that is US dollar, which will be stipulated in the Grant Agreement.

The Palestine side understood flow of approval during the execution of the contract and required documents for payments to prime contractor(s)/supplier(s) as Annex 4.

#### 5-4 Bidding procedure and procurement guidelines

The bidding/selection of local contractor(s)/supplier(s) and conclusion of their contracts in addition to the consultant contract covered by Grant of the Project will be conducted at Palestine. The Palestine side understands that the products and services covered by Grant of the Project will be procured in accordance with JICA’s Procurement Guidelines for the Japanese Grants (for Japanese consultant and local contractor). In particular, the Palestine side agreed to the following conditions.

- 1) The contract shall be concluded on the bases of a lump sum price.
- 2) The bidding shall be conducted by using JICA’s standard bidding document’s form.

#### 6. Timeline for the project implementation

The Team explained to the Palestine side that the expected timeline for the project implementation is as attached in Annex 5.

#### 7. Expected outcomes and indicators

Both sides agreed that key indicators for expected outcomes are as follows. The



Palestine side will be responsible for the achievement of agreed key indicators targeted in year 2026 and shall monitor the progress by the Executing Agency based on those indicators.

[Quantitative indicators]

- Number of students who learn in continuously available classrooms in the targeted schools.
- Number of students who learn in small, rented or dilapidated classrooms.

[Qualitative indicators]

- Students' time in school is expected to increase as some targeted schools will change to single-shift from double-shift. Furthermore, it is expected that students at such schools will maintain a regular school life, as they may come to and leave school at a regular time.
- It is expected that teachers may instruct students better, as congestion in classrooms will be eased.
- Students are expected to concentrate more on classes by having schools closer to their home and thereby having less physical and mental stress on commuting.
- It is expected that students will have more interest on science as there will be more science experiments subsequent to the procurement of equipment.

#### 8. Ex-Post Evaluation

JICA will conduct ex-post evaluation after three (3) years from the project completion, in principle, with respect to five evaluation criteria (Relevance, Effectiveness, Efficiency, Impact, Sustainability). The result of the evaluation will be publicized. The Palestine side is required to provide necessary support for the data collection.

#### 9. Undertakings of the Project

Both sides confirmed the undertakings of the Project as described in Annex 6. With regard to exemption of customs duties, internal taxes and other fiscal levies as stipulated in (2) 5 of Annex 6, both sides confirmed that such customs duties, internal taxes and other fiscal levies, shall be clarified in the bid documents during the implementation stage of the Project.

The Palestine side assured to take the necessary measures and coordination including allocation of the necessary budget which are preconditions of implementation of the Project. It is further agreed that the costs are indicative, i.e. at Outline Design level. More accurate costs will be calculated at the Detailed Design stage.

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Both sides also confirmed that the Annex 6 will be used as an attachment of G/A.

Both sides confirmed that the Palestine side shall take necessary measures to ensure and maintain the security of the Project site and the persons related to the implementation of the Project, in cooperation with relevant authorities during the Project period. Such security measures shall reasonably reflect needs of the Consultant/the Contractor engaging in the Project, as shown in Annex 5.

Both sides agreed that in case the additional security cost would be necessary for the implementation of the Project, such cost shall be borne by the Recipient without using the Grant.

10. Monitoring during the implementation

The Project will be monitored by the Executing Agency and reported to JICA by using the form of Project Monitoring Report (PMR) attached as Annex 7. The timing of submission of the PMR is described in Annex 6.

11. Project completion

Both sides confirmed that the Project completes when all the facilities are constructed and furniture/equipment procured by the Grant are in operation. The completion of the Project will be reported to JICA promptly, but in any event not later than six months after completion of the Project.

12. Items and measures to be considered for the smooth implementation of the Project

Both sides confirmed the items and measures to be considered for the smooth implementation of the Project as follows;

12-1 The Palestine side confirmed that when problems such as delay of construction works or procurement of furniture/equipment by contractor(s)/supplier(s) arises during the implementation of the Project, the MoE will take necessary measures in accordance with technical opinion of the consultant in a timely manner. If the delay of construction works or procurement of furniture/equipment caused by negligence/fault of the consultant, the MoE will take necessary measures based on the contracts.

12-2 The Palestine side agreed that in case the amount of the Grant, which includes the contingency, is not enough to cover the entire cost of components as planned by

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the outline design, the Palestine side will take necessary measures, based on technical analysis and opinions of the consultant.

13. Schedule of the Study

JICA will finalize the Preparatory Survey Report based on the confirmed items. The report will be sent to the Palestine side around February 2020.

14. Environmental and Social Considerations

14-1 Environmental Guidelines and Environmental Category

The Team explained that 'JICA Guidelines for Environmental and Social Considerations (April 2010)' (hereinafter referred to as "the Guidelines") is applicable for the Project. The Project is categorized as C because the Project is likely to have minimal adverse impact on the environment under the Guidelines.

15. Other Relevant Issues

15-1 Both sides confirmed to apply one (1) contractual lot with two (2) sites basically. As numbers of schools are odd number both in the West Bank and in the Gaza Strip, one (1) contractual lot out of three in each area shall be with one (1) site. To avoid delay in construction work, category of bidders shall be limited to A1 in case of one contractual lot with two sites. On the other hand, A1 or A2 category shall be allowed for the contractual lot with one site. The lot plan is shown in Annex 8.

15-2 The Palestine side shall be responsible for proper operation and maintenance of school facilities including its furniture/equipment constructed and procured under the Project, which includes, but not limited to, timely repair of the facilities, annual maintenance of solar power systems in the Gaza Strip, and allocation of budget and staff for them.

15-3 The Palestine side committed to assign appropriate teachers and staff required for school operation and management.

15-4 Both sides confirmed that a committee chaired by MoE and consists of representatives from relevant departments/organizations from both Palestine and Japan side shall be established for the smooth and effective implementation of the Project.

15-5 The Palestine side confirmed that the following works shall be done by the Palestine side before the signing of the construction contract.

- Logging or transplanting existing trees (W-2, W-4, G-3)
- Demolition and removal of existing aged buildings (including foundations) or existing fence (W-3, G-4) and unused toilet building (W-1). (See the drawings of Annex 9)

15-6 The Palestine side confirmed that the following facilities outside the sites shall be provided by the Palestine side by the time indicated below.

- Electricity: The distributing line to the site (Before start of the construction)
- Water Supply: The city water distribution main to the site (if existing) (6 months before completion of the construction)
- Drainage: The city drainage main (for storm, sewer and others) to the site (if existing) (6 months before completion of the construction)
- Furniture and Equipment: General furniture other than the ones procured by the Project (At appropriate time)
- Telecommunication line (Before start of the school operation)

15-7 Both sides agreed that tablets with keyboard shall be installed at W-3, W-4, and W-5, which has grade 5 to 12 classes.

Annex 1 List of Project School Site

Annex 2 Organization Chart

Annex 3 Japanese Grant

Annex 4 Tentative Approval flow and required documents

Annex 5 Project Implementation Schedule

Annex 6 Major Undertakings to be taken by the Palestinian Authority

Annex 7 Project Monitoring Report (template)

Annex 8 Construction lot plan (tentative)

Annex 9 Buildings to be demolished by the Palestine side

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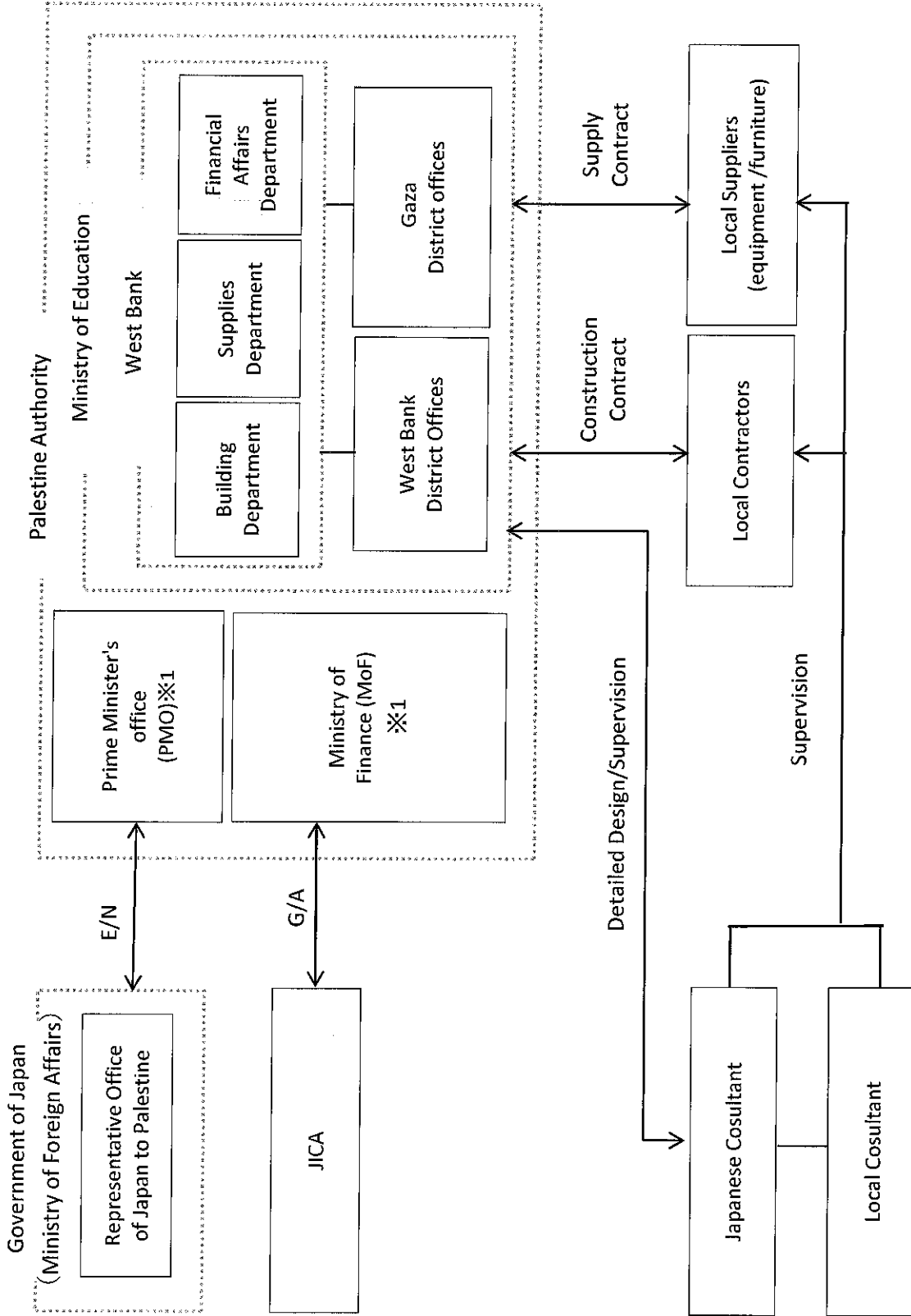
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## List of Project School Sites

West Bank		
ID No.	Governorate	School Name
W-1	Yatta	Al Karmel Basic Boys School
W-2	Qabatia	Meslieh Basic Coed School
W-3	Nablus	Salem Secondary Girls School
W-4	South Nablus	Beta Basic Coed School
W-5	North Hebron	Noba Secondary Boys School
Gaza Strip		
ID No.	Governorate	School Name
G-1	North Gaza	Jam'ia Land Secondary Girls School
G-3	North Gaza	Moharbeen Al Kudama Girls School
G-4	Khan Younis	Osama El-Najar Basic Girls School
G-5	Rafah	Salem Basic Coed School
G-6	Khan Younis	Boraq Land 1 Secondary Girls School

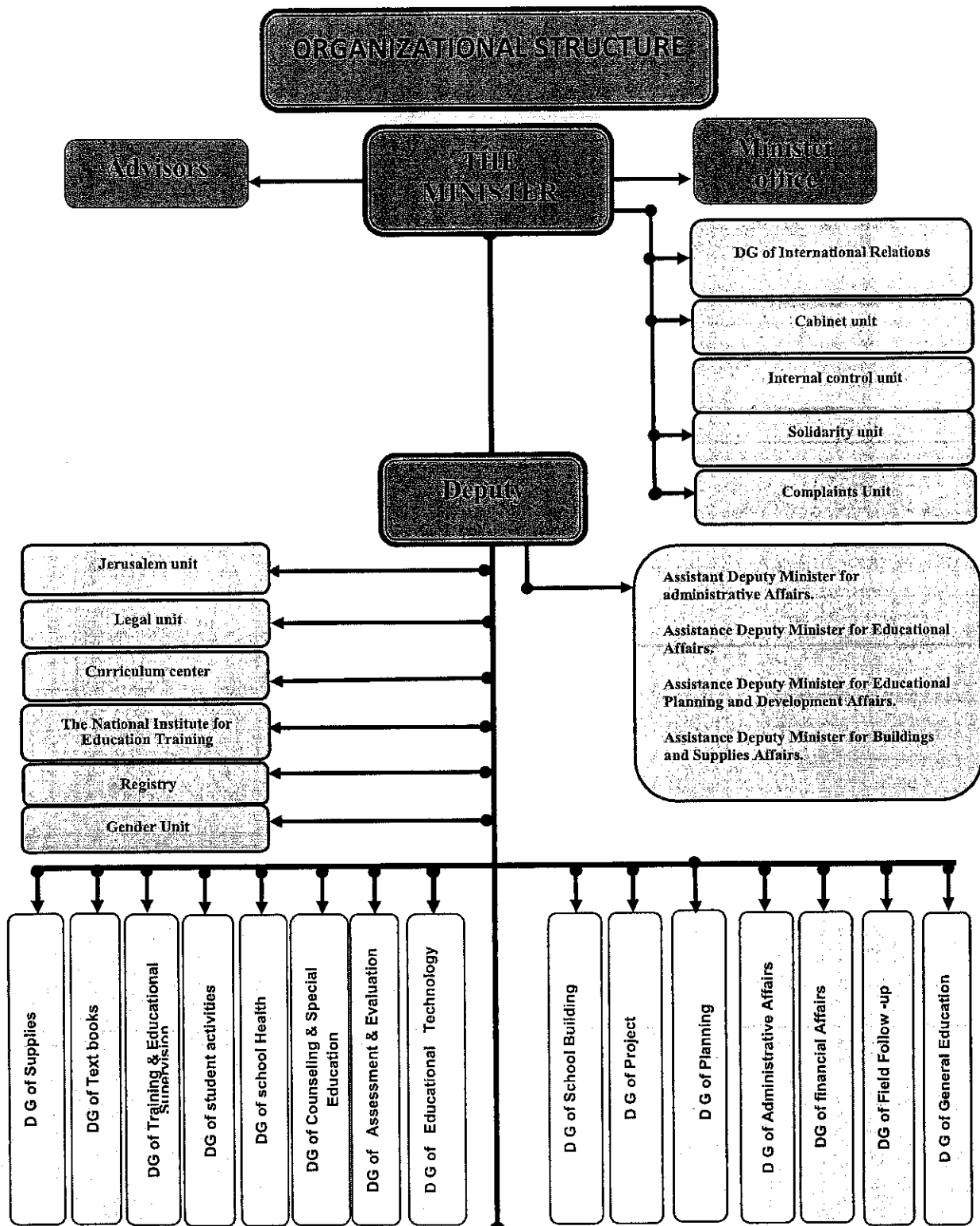
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※1: It was finalized and approved by the proxy issued by the President Mohmoud Abbas

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Directorates of Education						
Directorates of Education for North Governorates				Directorates of Education for South Governorates		
1.	Jenin	10.	Bethlehem	1.	North Gaza	
2.	South Nablus	11.	Yatta	2.	Khan Younis	
3.	Nablus	12.	Jericho.	3.	Rafah	
4.	Salfeet	13.	North Hebron	4.	Middle Area Dir.	
5.	Tulkarem	14.	Hebron	5.	East Gaza	
6.	Qalqilia	15.	South Hebron	6.	East Khan Younis	
7.	Ramallah &	16.	Qabatya	7.	West Gaza	
8.	Jerusalem Subarbs	17.	Tubas			
9.	Jerusalem					

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## JAPANESE GRANT

The Japanese Grant is non-reimbursable fund provided to a recipient country (hereinafter referred to as “the Recipient”) to purchase the products and/or services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. Followings are the basic features of the project grants operated by JICA (hereinafter referred to as “Project Grants”).

### 1. Procedures of Project Grants

Project Grants are conducted through following procedures (See “PROCEDURES OF JAPANESE GRANT” for details):

(1) Preparation

- The Preparatory Survey (hereinafter referred to as “the Survey”) conducted by JICA

(2) Appraisal

-Appraisal by the government of Japan (hereinafter referred to as “GOJ”) and JICA, and Approval by the Japanese Cabinet

(3) Implementation

Exchange of Notes

-The Notes exchanged between the GOJ and the government of the Recipient

Grant Agreement (hereinafter referred to as “the G/A”)

-Agreement concluded between JICA and the Recipient

Banking Arrangement (hereinafter referred to as “the B/A”)

-Opening of bank account by the Recipient in a bank in Japan (hereinafter referred to as “the Bank”) to receive the grant

Construction works/procurement

-Implementation of the project (hereinafter referred to as “the Project”) on the basis of the G/A

(4) Ex-post Monitoring and Evaluation

-Monitoring and evaluation at post-implementation stage

### 2. Preparatory Survey

(1) Contents of the Survey

The aim of the Survey is to provide basic documents necessary for the appraisal of the the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of

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relevant agencies of the Recipient necessary for the implementation of the Project.

- Evaluation of the feasibility of the Project to be implemented under the Japanese Grant from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of an outline design of the Project.
- Estimation of costs of the Project.
- Confirmation of Environmental and Social Considerations

The contents of the original request by the Recipient are not necessarily approved in their initial form. The Outline Design of the Project is confirmed based on the guidelines of the Japanese Grant.

JICA requests the Recipient to take measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the executing agency of the Project. Therefore, the contents of the Project are confirmed by all relevant organizations of the Recipient based on the Minutes of Discussions.

#### (2) Selection of Consultants

For smooth implementation of the Survey, JICA contracts with (a) consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

#### (3) Result of the Survey

JICA reviews the report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the feasibility of the Project.

### **3. Basic Principles of Project Grants (contract with Japanese consultant and local contractors)**

#### (1) Implementation Stage

##### 1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the Recipient to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Recipient to define the necessary articles, in accordance with the E/N, to implement the Project, such as conditions of disbursement, responsibilities of the Recipient, and procurement conditions. The terms and conditions generally applicable to the Japanese Grant are stipulated in the "General Terms and Conditions for Japanese Grant (January 2016)."

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2) Banking Arrangements (B/A) (See "Financial Flow of Grant" for details)

- a) The Recipient shall open an account or shall cause its designated authority to open an account under the name of the Recipient in the Bank, in principle. JICA will disburse the Japanese Grant in Japanese yen for the Recipient to cover the obligations incurred by the Recipient under the verified contracts.
- b) In case of Japanese consultant, the Japanese Grant will be disbursed when payment requests are submitted by the Bank to JICA under an Authorization to Pay (A/P) issued by the Recipient.
- c) In case of local contractors, the Japanese Grant will be disbursed when requests for disbursement are submitted by the Recipient to JICA.

3) Procurement Procedure

The products and/or services necessary for the implementation of the Project shall be procured in accordance with JICA's procurement guidelines as stipulated in the G/A.

4) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the Recipient to continue to work on the Project's implementation after the E/N and G/A.

5) Eligible source country

In using the Japanese Grant disbursed by JICA for the purchase of products and/or services, the eligible source countries of such products and/or services shall be Japan and/or the Recipient. The Japanese Grant may be used for the purchase of the products and/or services of a third country as eligible, if necessary, taking into account the quality, competitiveness and economic rationality of products and/or services necessary for achieving the objective of the Project. However, the prime consulting firm, which enter into contracts with the Recipient, are limited to "Japanese nationals", while the prime constructing firm(s), which enter into contracts with the Recipient, could be nationals of the recipient country or other country(ies) if deemed it necessary .

6) Contracts and Concurrence by JICA

The Recipient will conclude the consultant contract() denominated in Japanese yen with Japanese nationals and the construction/supplier contracts dominated in other internationally traded foreign currency acceptable to JICA with the local contractors. Those contracts shall be verified by JICA in order to be eligible for the Japanese Grant.

7) Monitoring

The Recipient is required to take their initiative to carefully monitor the progress of the Project in order to ensure its smooth implementation as part of their responsibility in the G/A, and to regularly report to JICA about its status by using the Project Monitoring Report (PMR).

8) Safety Measures

The Recipient must ensure that the safety is highly observed during the implementation of the Project.

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### 9) Construction Quality Control Meeting

Construction Quality Control Meeting (hereinafter referred to as the "Meeting") will be held for quality assurance and smooth implementation of the Works at each stage of the Works, if necessary. The member of the Meeting will be composed by the Recipient (or executing agency), the Consultant, the Contractor and JICA. The functions of the Meeting are as followings:

- a) Sharing information on the objective, concept and conditions of design from the Contractor, before start of construction.
- b) Discussing the issues affecting the Works such as modification of the design, test, inspection, safety control and the Client's obligation, during of construction.

### (2) Ex-post Monitoring and Evaluation Stage

- 1) After the project completion, JICA will continue to keep in close contact with the Recipient in order to monitor that the outputs of the Project is used and maintained properly to attain its expected outcomes.
- 2) In principle, JICA will conduct ex-post evaluation of the Project after three years from the completion. It is required for the Recipient to furnish any necessary information as JICA may reasonably request.

### (3) Others

#### 1) Environmental and Social Considerations

The Recipient shall carefully consider environmental and social impacts by the Project and must comply with the environmental regulations of the Recipient and JICA Guidelines for Environmental and Social Considerations (April, 2010).

#### 2) Major undertakings to be taken by the Government of the Recipient

For the smooth and proper implementation of the Project, the Recipient is required to undertake necessary measures including land acquisition, and bear an advising commission of the A/P and payment commissions paid to the Bank as agreed with the GOJ and/or JICA. The Government of the Recipient shall ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the Recipient with respect to the purchase of the Products and/or the Services be exempted or be borne by its designated authority without using the Grant and its accrued interest, since the grant fund comes from the Japanese taxpayers.

#### 3) Proper Use

The Recipient is required to maintain and use properly and effectively the products and/or services under the Project (including the facilities constructed and the equipment purchased), to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Japanese Grant.

4) Export and Re-export

The products purchased under the Japanese Grant should not be exported or re-exported from the Recipient.

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PROCEDURES OF JAPANESE GRANT

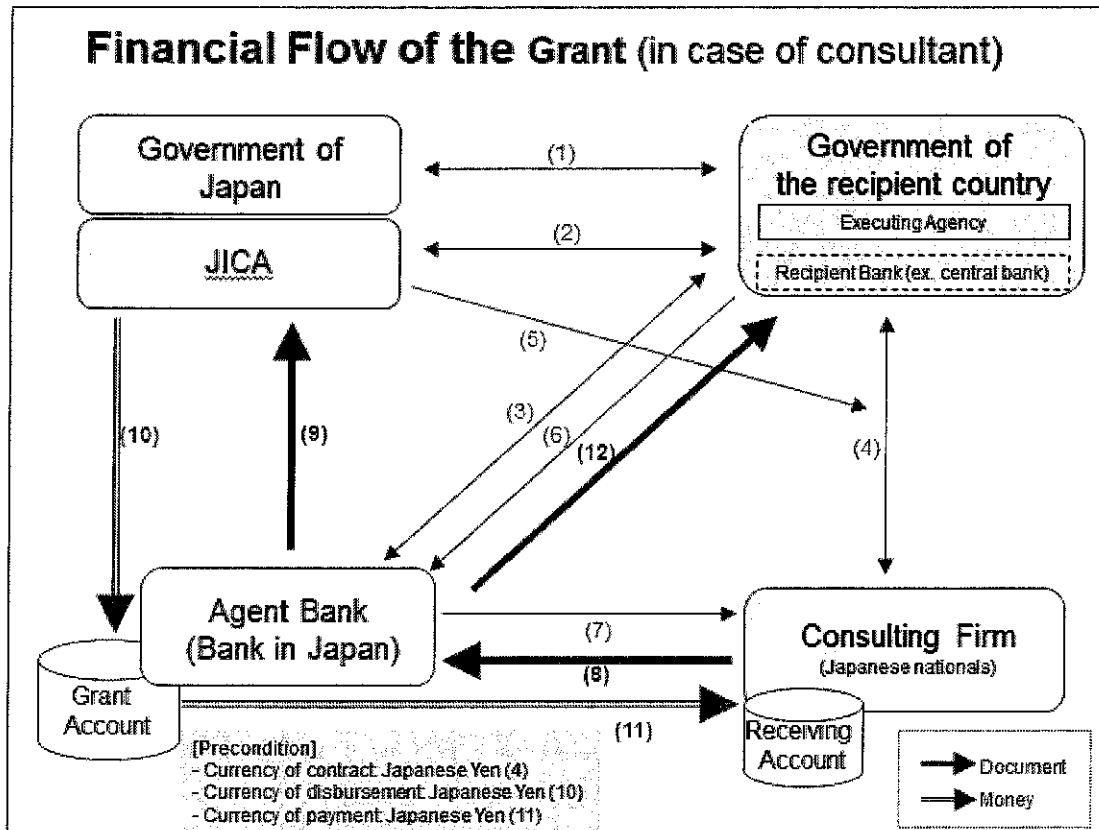
Stage	Procedures	Remarks	Recipient Government	Japanese Government	JICA	Consultants	Contractors	Agent Bank
Official Request	Request for grants through diplomatic channel	Request shall be submitted before appraisal stage.	x	x				
1. Preparation	(1) Preparatory Survey Preparation of outline design and cost estimate		x		x	x		
2. Appraisal	(2) Preparatory Survey Explanation of draft outline design, including cost estimate, undertakings, etc.		x		x	x		
	(3) Agreement on conditions for implementation	Conditions will be explained with the draft notes (E/N) and Grant Agreement (G/A) which will be signed before approval by Japanese government.	x	x (E/N)	x (G/A)			
	(4) Approval by the Japanese cabinet			x				
3. Implementation	(5) Exchange of Notes (E/N)		x	x				
	(6) Signing of Grant Agreement (G/A)		x		x			
	(7) Banking Arrangement (B/A)	Need to be informed to JICA	x					x
	(8) Contracting with consultant and issuance of Authorization to Pay (A/P)	Concurrence by JICA is required	x			x		x
	(9) Detail design (D/D)		x			x		
	(10) Preparation of bidding documents	Concurrence by JICA is required	x			x		
	(11) Bidding	Concurrence by JICA is required	x			x	x	
	(12) Contracting with contractor/supplier	Concurrence by JICA is required Request for disbursement shall be made by the Recipient, in case of local contractor.	x		x		x	x
(13) Construction works/procurement	Concurrence by JICA is required for major modification of design and amendment of contracts.	x			x	x		
(14) Completion certificate		x			x	x		
4. Ex-post monitoring & evaluation	(15) Ex-post monitoring	To be implemented generally after 1, 3, 10 years of completion, subject to change	x		x			
	(16) Ex-post evaluation	To be implemented basically after 3 years of completion	x		x			

notes:

1. Project Monitoring Report and Report for Project Completion shall be submitted to JICA as agreed in the G/A.
2. Concurrence by JICA is required for allocation of grant for remaining amount and/or contingencies as agreed in the G/A.

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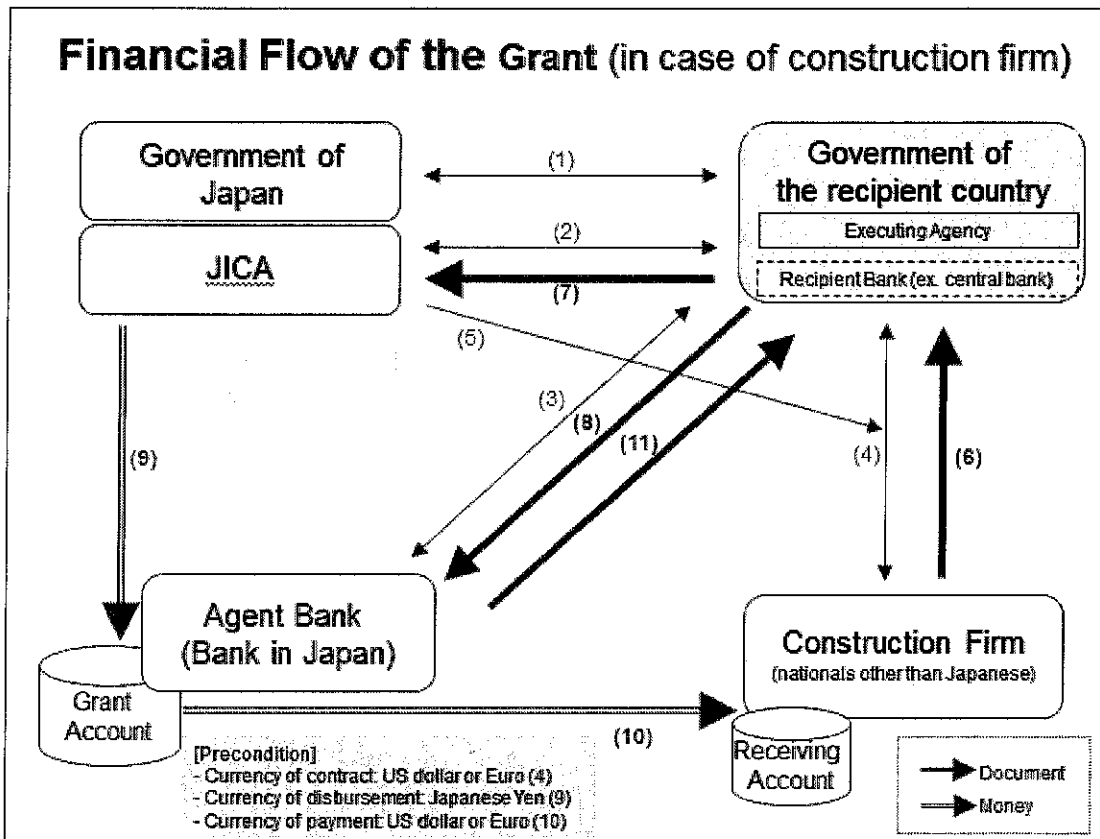
Financial Flow of Japanese Project Grant  
(contract with Japanese consultant and local contractors)



- (1) E/N
- (2) G/A
- (3) Banking Arrangement/Opening an Grant Account
- (4) Contract
- (5) Concurrence and Verification of Contract
- (6) Issuing Authorization to Pay (A/P) upon contract
- (7) Notification of A/P
- (8) Request for Payment
- (9) Request for the Disbursement
- (10) Disbursement of the Grant
- (11) Payment
- (12) Statement of Account

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(1) E/N

(2) G/A

Submission of Evidence of Authority and Specimen Signatures from the Recipient to JICA (prerequisite for the process of no. (7))

(3) Banking Arrangement/Opening an Grant Account

(4) Contract

(5) Concurrence and Verification of Contract

**(6) Request for Payment**

**(7) Request for Disbursement**

**(8) Transfer Instruction**

**(9) Disbursement of the Grant \***

**(10) Payment**

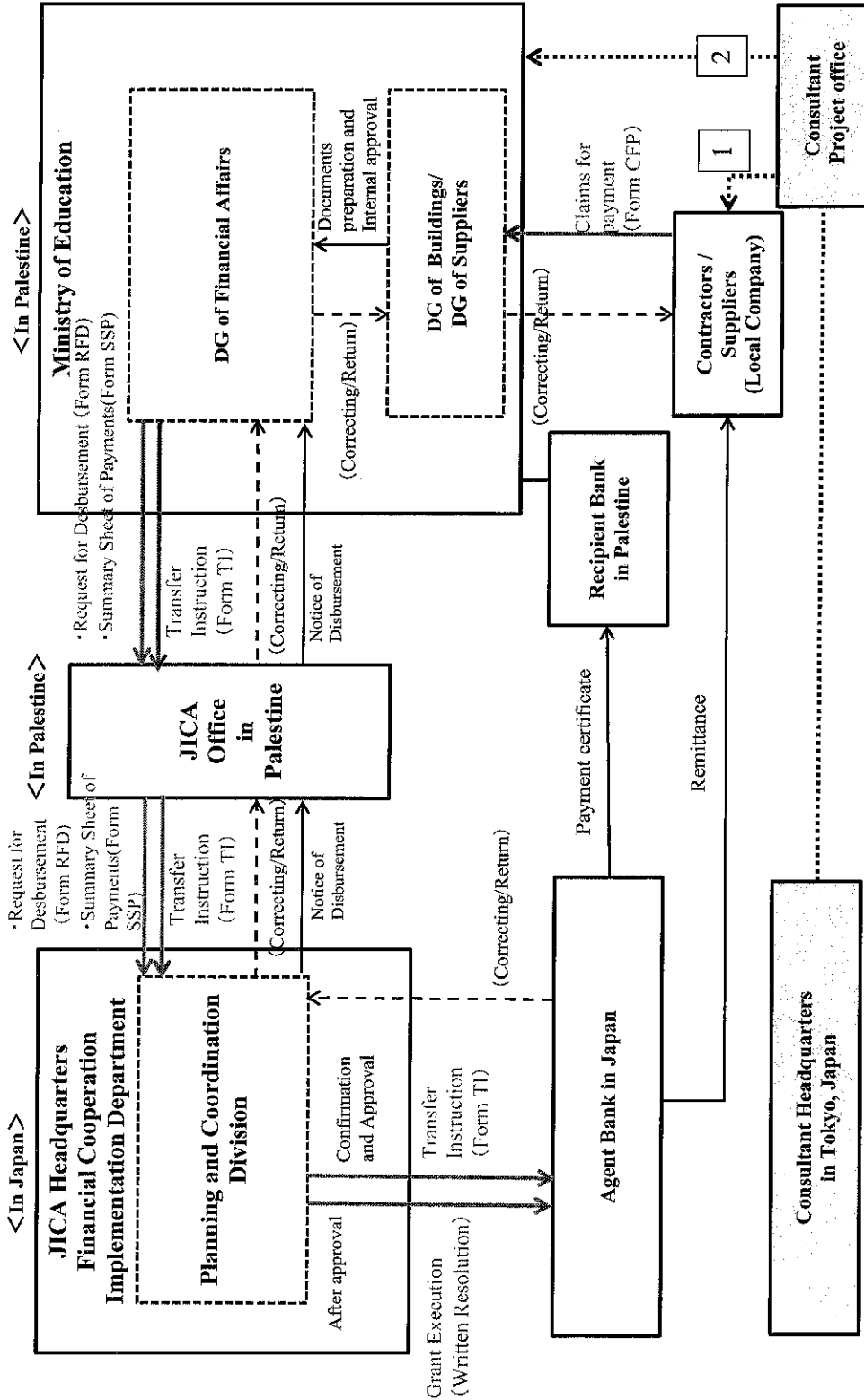
**(11) Statement of Account**

\* The amount of disbursement in Japanese Yen ((9) in above chart) shall be calculated at the Telegraphic Transfer Selling (TTS) rate quoted by the Bank in Japan two business days before the date on which the disbursement is made.

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Tentative Approval flow and required documents for payments to the contractors/suppliers (local company)



【Consultant's financial planning and payment support service】

1 Support for preparing invoice, pre-confirmation of documents, promotion of document preparation, support for revision documents etc.

2 Promotion of approval of the Ministry(MoE), support for Request for Disbursement / Transfer Instruction, pre-confirmation of documents, promotion of document preparation, support for revision documents, etc.

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*[Handwritten signature]*



Implementation Schedule (Draft) for D/D, Bidding and S/V

Year	2020												2021												2022												2023																
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5												
Cabinet Meeting, E/N, G/A	Cabinet Meeting																																																				
	E/N, G/A																																																				
	Consultant Agreement																																																				
Detail Design (D/D)	Detail Design / Bidding Documents												Building (Gaza)												Building (WB)												Equipment (Gaza) Furniture (Gaza & WB)												Equipment WB				
	D/D and Bidding Documents																																																				
	Approval of Bidding Documents																																																				
Bidding and Supervision for Construction/ Procurement	Bidding Announcement																																																				
	Bid Opening and Evaluation																																																				
	Bond / Contract / JICA confirmation																																																				
	Supervision for Construction																																																				
Works Borne by Recipient	Procurement																																																				
	Demolition of Existing Buildings / removal of trees / Building permit												(Gaza)																																								
	Infrastructure Connection																																																(WB)				

Building (Gaza)  
 Building (WB)  
 Equipment (Gaza) and Furniture (Gaza & WB)  
 Equipment (WB)

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## Major Undertakings to be taken by the Palestine Authority

## 1. Specific obligations of the Palestine Authority which will not be funded with the Grant

## (1) Before the Bidding

NO	Items	Deadline	In charge	Estimated Cost (USD)	Ref.
1	To sign the banking arrangement (B/A) with a bank in Japan (the Agent Bank) to open bank account (B/A)	within 1 month after the signing of the G/A	MoF	---	
2	To issue A/P to a bank in Japan (the Agent Bank) for the payment to the consultant	within 1 month after the signing of the contract	MoF	---	
3	To bear the following commissions to the Agent Bank for the banking services based upon the B/A				
	1) Advising commission of A/P	within 1 month after the signing of the contract(s)	MoE	44.8	5,000JPY
	2) Payment commission for A/P	Advance payment for the Consultant	MoE	1,858	0.1% of Advance payment (40% of Consultant fee)
4	To secure the project sites listed in the Annex1 with the land ownership documents	before notice of the bidding document	MoE	---	
5	To obtain the building permits	before notice of the bidding document	MoE through local consultant	---	
6	To demolish existing facilities (W-1, W-3, G-4) and remove trees (W-2, W-4, G-3)	Before signing of the Construction Contract	MoE/ Municipality	40,750	
7	To secure temporary facilities to accommodate users of the existing school buildings to be demolished during construction period for following sites; W-3, G-4	before the demolition works	MoE	---	
8	To move and store necessary furniture and equipment from the existing buildings to be demolished for reconstruction	before the demolition works	MoE	---	
9	1) To finalize a draft of Project Monitoring Report (with the result of Detailed Design by the consultant) 2) To submit Project Monitoring Report	before preparation of the bidding documents	MoE	---	

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10	To ensure smooth implementation of the bidding procedures and to bear necessary expenses relevant to the bidding procedures including, but not limited to, the following - Printing and binding of bidding documents (by the consultant) - Bid notices on major newspapers (expenses to be borne by the successful bidder) - Securing places for pre-bid meeting - Securing places for bid openings - Bid result notices in accordance with regulations on the public procurement of Palestine	before the bid notice	MoE	---	
----	---	-----------------------	-----	-----	--

(B/A: Banking Arrangement, A/P: Authorization to pay, N/A: Not Applicable)

(2) During the Project Implementation

NO	Items	Deadline	In charge	Estimated Cost (USD)	Ref.
1	To bear the following commissions to the Agent Bank for the banking services based upon the B/A				
	1) Payment commission for A/P	every payment for consultant	MoE	2,787	0.1% of payment (60% of Consultant fee in total)
	2) Remittance charge for local contractors and suppliers	every payment	MoE	4,390	98 times x5,000JPY
2	To conduct necessary procedures such as "Request for disbursement" to JICA (upon certificate issued by the Consultant on construction firms' and/or procurement firms' (suppliers') invoices), "Application of remittance" to Bank (upon certificate issued by the Consultant on construction firms' and/or procurement firms' (suppliers') invoices)	during the Project	MoE/ MoF	---	
3	To ensure prompt customs clearance and to assist the Supplier(s) with internal transportation in the country of the Recipient	during the Project	MoF	---	
4	To accord Japanese physical persons and/or physical persons of third countries whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the country of the Recipient and stay therein for the performance of their work	during the Project	MoE	---	
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the country of the Recipient with respect to the purchase of the products and/or the services be exempted	during the Project	MoF	---	
6	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project	during the Project	MoE	---	
7	To notify JICA promptly of any incident or accident, which has, or is likely to have, a significant adverse effect on the environment, the affected communities, the public or workers	during the construction	MoE	---	
8	1) To finalize a draft of Project Monitoring Report prepared by the consultant 2) To submit Project Monitoring Report	every month	MoE	---	
	3) To finalize a draft of Project Monitoring Report (final) (including as-built drawings, equipment list, photographs, etc.) prepared by the consultant 4) To submit Project Monitoring Report (final) (including as-built drawings, equipment list, photographs, etc.)	within 1 month after signing of Certificate of Completion for the works under the contract(s)	MoE	---	
9	1) To finalize a draft of a report concerning completion of the Project 2) To submit a report concerning completion of the Project	within 6 months after completion of the Project	MoE	---	

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10	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the site(s) as follows;				
	1) Electricity The distributing line to the site	before start of the construction	MoE/ Municipality	150,000	
	2) Water Supply The city water distribution main to the site (if existing)	6 months before completion of the construction	MoE/ Municipality	12,000	
	3) Drainage The city drainage main (for storm, sewer and others) to the site (if existing)	6 months before completion of the construction	MoE/ Municipality	3,400	
	4) Furniture and Equipment General furniture other than the ones procured by the Project	at appropriate time	MoE	---	
	5) Telecommunication line	before start of the school operation			
11	To take necessary measures for the security of the Project site and the persons related to the implementation of the Project, in cooperation with relevant authorities within MoE's capacity if issue is beyond the contractor's responsibility	during the construction	MoE	---	

### (3) After the Project

NO	Items	Deadline	In charge	Estimated Cost (USD)	Ref.
1	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid 1) Allocation of maintenance cost 2) Operation and maintenance structure 3) Routine check/Periodic inspection	After completion of the construction	MoE	Approx. 55,512 (per year)	
2	To allocate teachers and staff required for school operation and management	After completion of the construction	MoE	Approx. 80,097 (per year)	

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**2. Other obligations of the Palestine Authority funded with the Grant**

This part is closed due to the confidentiality

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**Project Monitoring Report**  
**on**  
**Project Name**  
**Grant Agreement No. XXXXXXX**  
 20XX, Month

**Organizational Information**

<b>Signer of the G/A (Recipient)</b>	_____ Person in Charge (Designation) _____ Contacts            Address: _____ Phone/FAX: _____ Email: _____
<b>Executing Agency</b>	_____ Person in Charge (Designation) _____ Contacts            Address: _____ Phone/FAX: _____ Email: _____
<b>Line Ministry</b>	_____ Person in Charge (Designation) _____ Contacts            Address: _____ Phone/FAX: _____ Email: _____

**General Information:**

<b>Project Title</b>	
<b>E/N</b>	Signed date: Duration:
<b>G/A</b>	Signed date: Duration:
<b>Source of Finance</b>	Government of Japan: Not exceeding JPY _____ mil. Government of (_____): _____

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<b>1: Project Description</b>	
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**1-1 Project Objective**

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**1-2 Project Rationale**

- Higher-level objectives to which the project contributes (national/regional/sectoral policies and strategies)
- Situation of the target groups to which the project addresses

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**1-3 Indicators for measurement of "Effectiveness"**

Quantitative indicators to measure the attainment of project objectives		
Indicators	Original (Yr     )	Target (Yr     )
Qualitative indicators to measure the attainment of project objectives		

<b>2: Details of the Project</b>
----------------------------------

**2-1 Location**

Components	Original <i>(proposed in the outline design)</i>	Actual
1.		

**2-2 Scope of the work**

Components	Original* <i>(proposed in the outline design)</i>	Actual*
1.		

Reasons for modification of scope (if any).

(PMR)
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**2-3 Implementation Schedule**

Items	Original		Actual
	(proposed in the outline design)	(at the time of signing the Grant Agreement)	

Reasons for any changes of the schedule, and their effects on the project (if any)

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**2-4 Obligations by the Recipient**

**2-4-1 Progress of Specific Obligations**  
 See Attachment 2.

**2-4-2 Activities**  
 See Attachment 3.

**2-4-3 Report on RD**  
 See Attachment 11.

**2-5 Project Cost**

**2-5-1 Cost borne by the Grant(Confidential until the Bidding)**

Components			Cost (Million Yen)	
	Original (proposed in the outline design)	Actual (in case of any modification)	Original <sup>1),2)</sup> (proposed in the outline design)	Actual
	1.			
Total				

Note: 1) Date of estimation:  
 2) Exchange rate: 1 US Dollar = Yen

**2-5-2 Cost borne by the Recipient**

Components			Cost (1,000 Taka)	
	Original (proposed in the outline design)	Actual (in case of any modification)	Original <sup>1),2)</sup> (proposed in the outline design)	Actual
	1.			

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- Note: 1) Date of estimation:  
2) Exchange rate: 1 US Dollar =

Reasons for the remarkable gaps between the original and actual cost, and the countermeasures (if any)

(PMR)
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**2-6 Executing Agency**

- Organization's role, financial position, capacity, cost recovery etc,
- Organization Chart including the unit in charge of the implementation and number of employees.

<b>Original</b> (at the time of outline design) name: role: financial situation: institutional and organizational arrangement (organogram): human resources (number and ability of staff):
<b>Actual</b> (PMR)

**2-7 Environmental and Social Impacts**

- The results of environmental monitoring based on Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- The results of social monitoring based on in Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- Disclosed information related to results of environmental and social monitoring to local stakeholders (whenever applicable).

**3: Operation and Maintenance (O&M)**

**3-1 Physical Arrangement**

- Plan for O&M (number and skills of the staff in the responsible division or section, availability of manuals and guidelines, availability of spareparts, etc.)

<b>Original</b> (at the time of outline design)
<b>Actual</b> (PMR)

**3-2 Budgetary Arrangement**

- Required O&M cost and actual budget allocation for O&M

<b>Original</b> (at the time of outline design)
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Actual (PMR)

**4: Potential Risks and Mitigation Measures**

- Potential risks which may affect the project implementation, attainment of objectives, sustainability
- Mitigation measures corresponding to the potential risks

**Assessment of Potential Risks (at the time of outline design)**

Potential Risks	Assessment
1. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:
2. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:
3. (Description of Risk)	Probability: High/Moderate/Low
	Impact: High/Moderate/Low
	Analysis of Probability and Impact:
	Mitigation Measures:
	Action required during the implementation stage:

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	Contingency Plan (if applicable):
Actual Situation and Countermeasures (PMR)	

**5: Evaluation and Monitoring Plan (after the work completion)**

**5-1 Overall evaluation**

Please describe your overall evaluation on the project.

--

**5-2 Lessons Learnt and Recommendations**

Please raise any lessons learned from the project experience, which might be valuable for the future assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

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**5-3 Monitoring Plan of the Indicators for Post-Evaluation**

Please describe monitoring methods, section(s)/department(s) in charge of monitoring, frequency, the term to monitor the indicators stipulated in 1-3.

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Attachment

1. Project Location Map
  2. Specific obligations of the Recipient which will not be funded with the Grant
  3. Monthly Report submitted by the Consultant
- Appendix - Photocopy of Contractor's Progress Report (if any)
- Consultant Member List
  - Contractor's Main Staff List
4. Check list for the Contract (including Record of Amendment of the Contract/ Agreement and Schedule of Payment)
  5. Environmental Monitoring Form / Social Monitoring Form
  6. Monitoring sheet on price of specified materials (Quarterly)
  7. Report on Proportion of Procurement (Recipient Country, Japan and Third Countries) (PMR (final) only)
  8. Pictures (by JPEG style by CD-R) (PMR (final) only)
  9. Equipment List (PMR (final) only)
  10. Drawing (PMR (final) only)
  11. Report on RD (After project)

Monitoring sheet on price of specified materials

1. Initial Conditions (Confirmed)

Items of Specified Materials	Initial Volume A	Initial Unit Price (¥) B	Initial total Price C=A×B	1% of Contract Price D	Condition of payment Price (Decreased) E=C-D	Condition of payment Price (Increased) F=C+D
Item 1	●●t	●	●	●	●	●
Item 2	●●t	●	●	●		
Item 3						
Item 4						
Item 5						

2. Monitoring of the Unit Price of Specified Materials

(1) Method of Monitoring : ●●

(2) Result of the Monitoring Survey on Unit Price for each specified materials

Items of Specified Materials	1st month, 2015	2nd month, 2015	3rd month, 2015	4th	5th	6th
Item 1	●	●	●			
Item 2						
Item 3						
Item 4						
Item 5						

(3) Summary of Discussion with Contractor (if necessary)

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Report on Proportion of Procurement (Recipient Country, Japan and Third Countries)  
 (Actual Expenditure by Construction and Equipment each)

	Domestic Procurement (Recipient Country) A	Foreign Procurement (Japan) B	Foreign Procurement (Third Countries) C	Total D
Construction Cost	(A/D%)	(B/D%)	(C/D%)	
Direct Construction Cost	(A/D%)	(B/D%)	(C/D%)	
others	(A/D%)	(B/D%)	(C/D%)	
Equipment Cost	(A/D%)	(B/D%)	(C/D%)	
Design and Supervision Cost	(A/D%)	(B/D%)	(C/D%)	
Total	(A/D%)	(B/D%)	(C/D%)	

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## Lot Plan and Eligible Contractor's Category

Lot ID	School ID	Contractors' Category
Gaza 1	G-1 and G-3	A1
Gaza 2	G-4 and G-6	A1
Gaza 3	G-5	A1 and A2
WB 1	W-1 and W-5	A1
WB 2	W-3 and W-4	A1
WB 3	W-2	A1 and A2

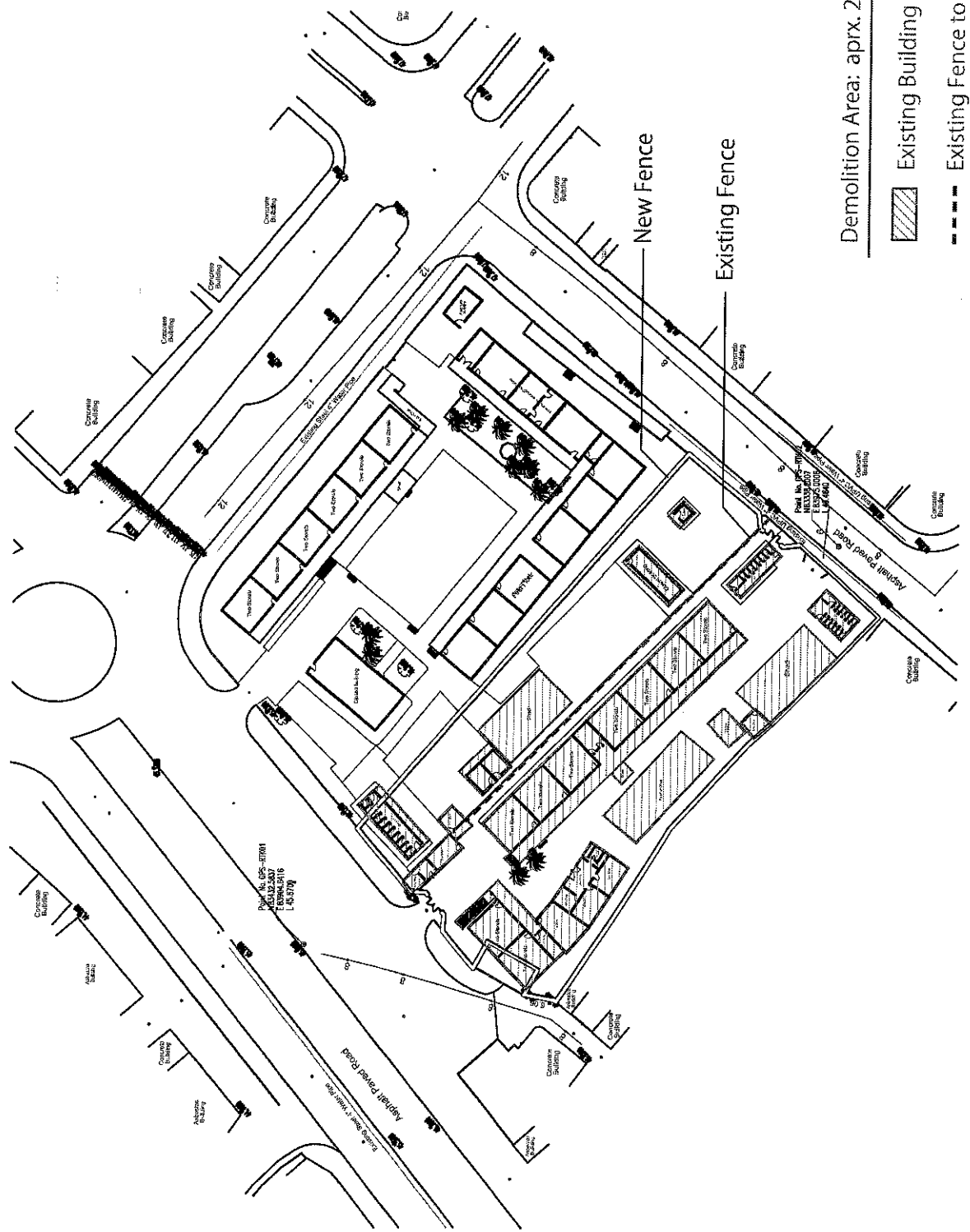
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# G-4 Osama El-Najar Basic Girls School

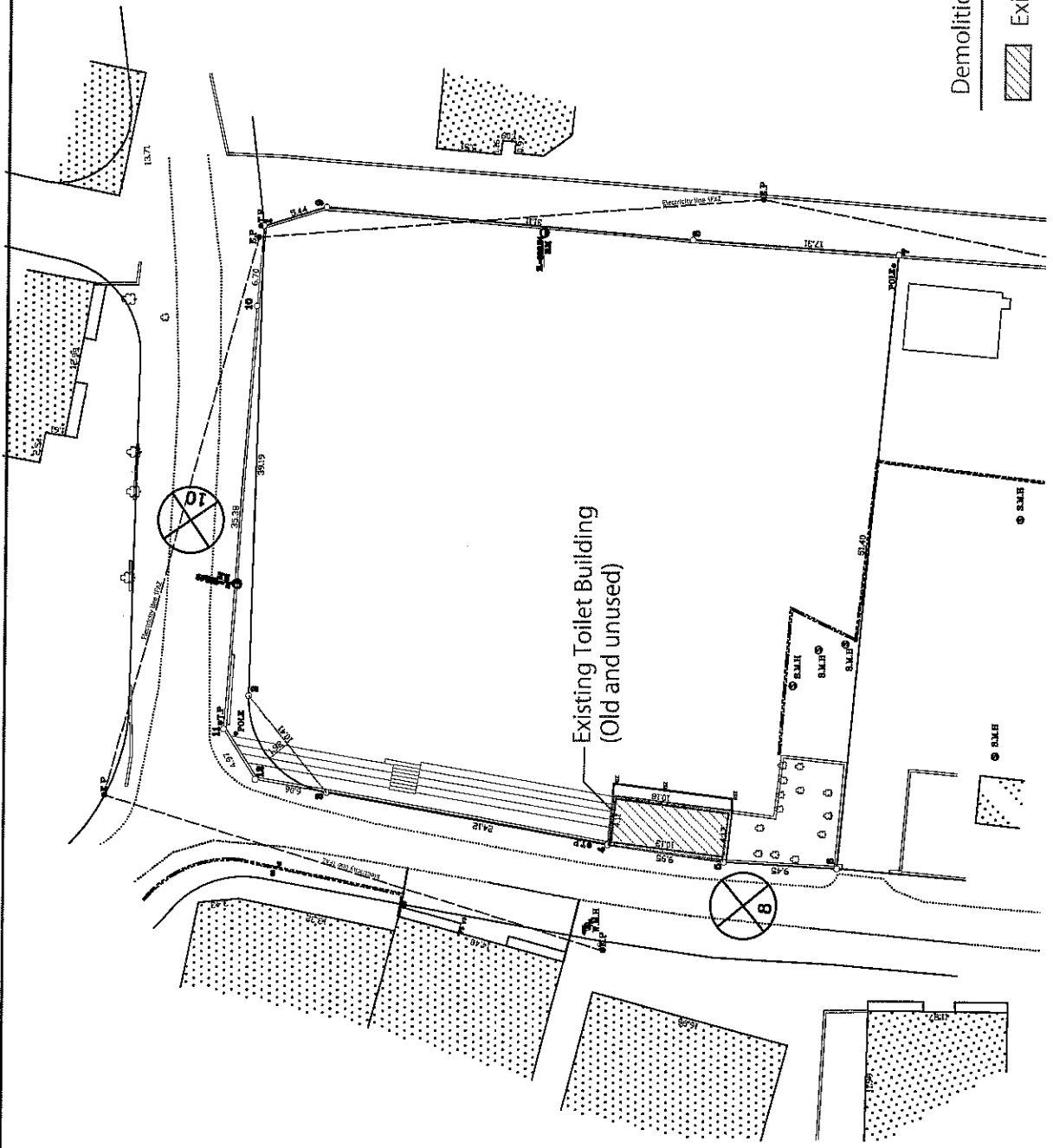
Annex 9 Building to be demolished by Palestine side



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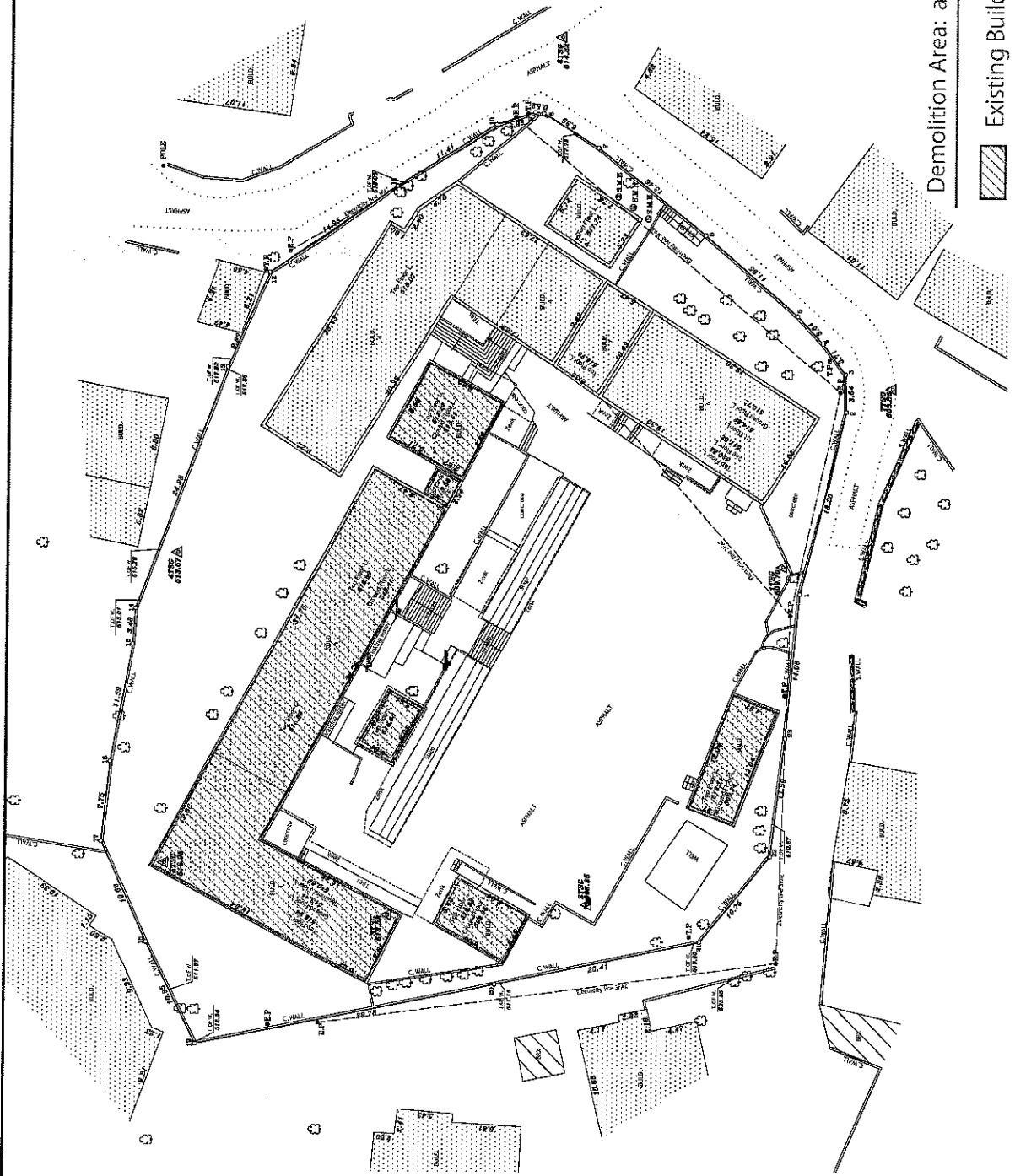


W-1 Al Karmel Basic Boys School



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W-3 Salem Sec Girls School



Demolition Area: aprx. 900 m<sup>2</sup>

Existing Building to be Demolished

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## 添付資料5 計画対象校の規模設定

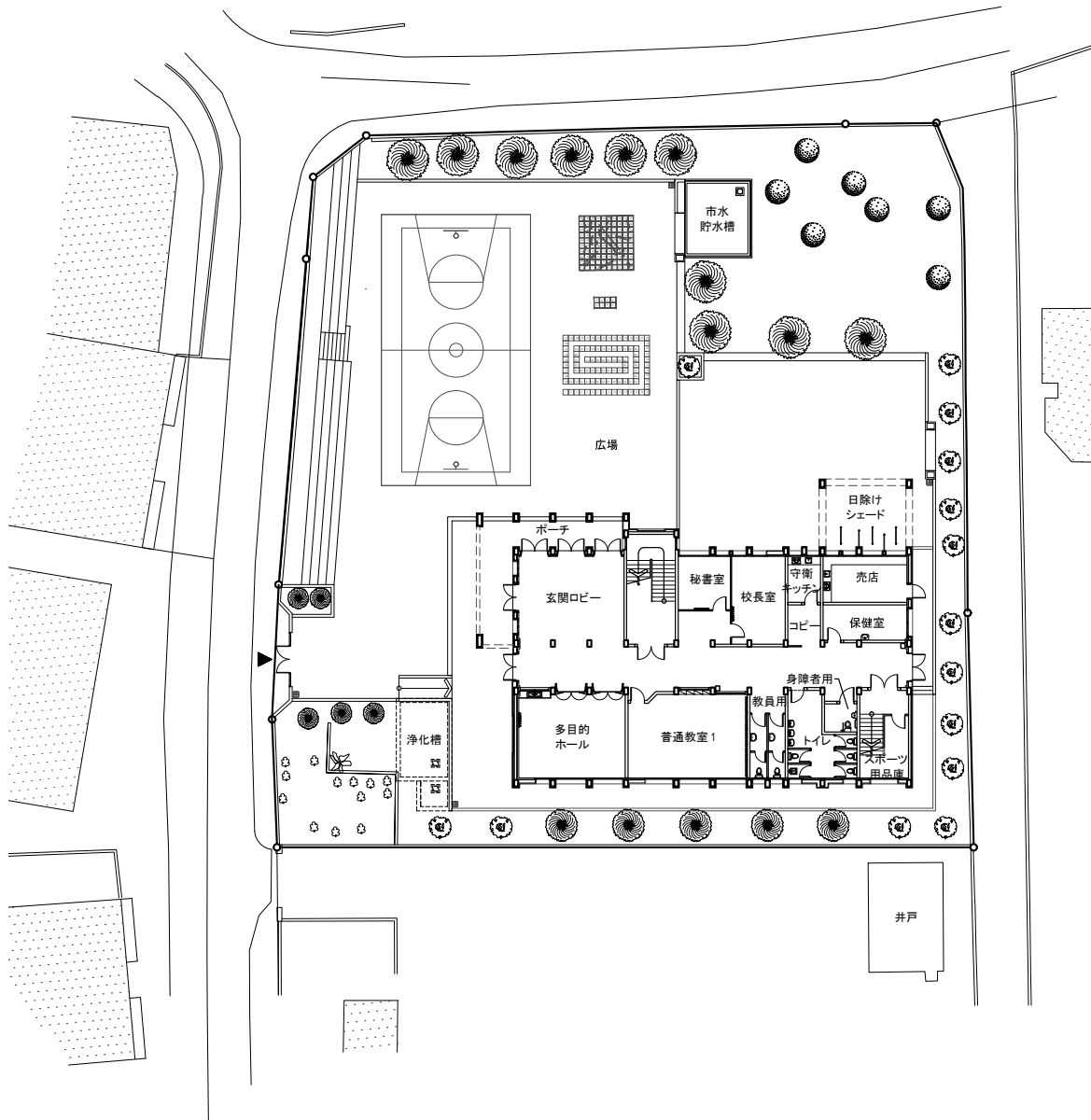
添付資料5. 計画対象校の規模設定

No.	学校名	教育行政県名	対象学年	① 要請教室数	分類	② 学区内 生徒数	③ 要請校への 予想転校者数	④ 年間 生徒増加率	⑤ 2023/24の 想定転校者数 ③×(1+④) <sup>15</sup>	⑥ 必要教室数 ⑤÷40	⑦ ⑥<①の場 合、学年別 必要教室数	計画教室数 (①あるいは⑦ の小さい方)
W-1	Al Karmel Basic Boys school	Yatta	男子1-4	12	移設	797	308	2.0%	343	9	12	12
W-2	Meslieh Basic Coed School	Qabalia	幼稚園 共学1-4	8+KG	移設	446	233	0.6%	241	7	8	8+KG
W-3	Salem Secondary Girls School	Nablus	女子5-12	14	建替	624	555	1.4%	595	15		14
W-4	Bela Basic Coed School	South Nablus	幼稚園 共学1-4 女子5-9	9+KG	移設	1,249	242	0.4%	247	7	9	9+KG
W-5	Noba Secondary Boys School	North Hebron	男子10-12	12	移設	367	180	1.2%	192	5	9	9
G-1	Jam'ia Land - Mas'od Street - Jabalia	North Gaza	女子10-12	20	新設	2,534	824	2.8%	947	24		20
G-3	Mohabeen Qodama Land - Jabalia	North Gaza	幼稚園 女子1-9	20+KG	新設 (一部移設)	1,223	959	2.8%	1,101	28		20+KG
G-4	Osama El Najjar School	Khanyonis	幼稚園 女子1-9	20+KG	建替	1,226	1,226	4.0%	1,492	38		20+KG
G-5	Al Salam Area	Rafah	幼稚園 共学1-4 女子5-9	16+KG	新設 (一部移設)	1,432	706	4.2%	868	22		16+KG
G-6	Boraq Land 1 Secondary Girls School	Khanyonis	女子10-12	22	新設	3,333	829	4.0%	1,009	26		22

## 添付資料6 概略設計図

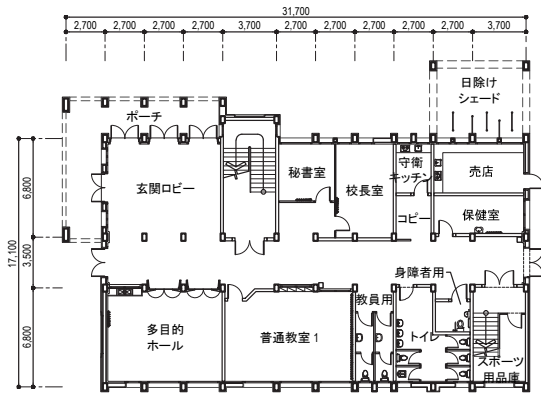


## 添付資料6－1 概略設計図(西岸地区)

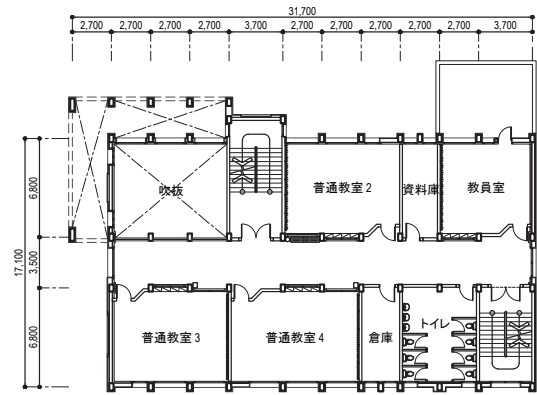


配置図

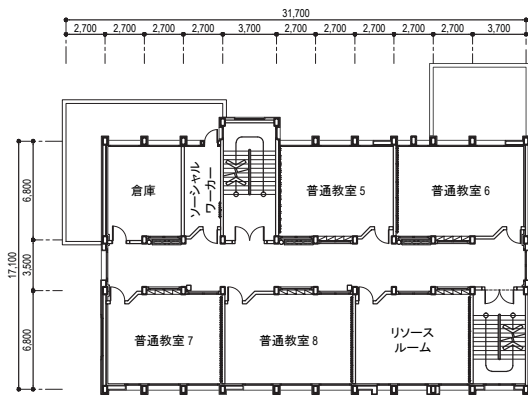




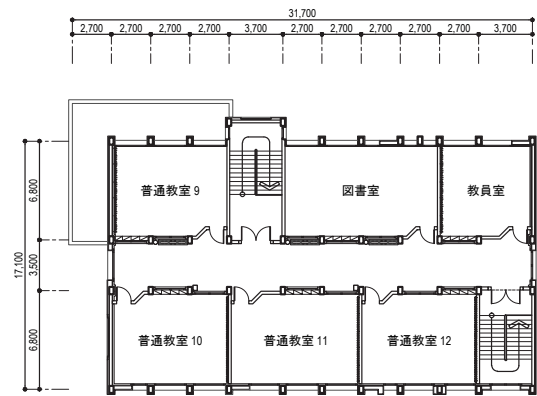
1階平面図



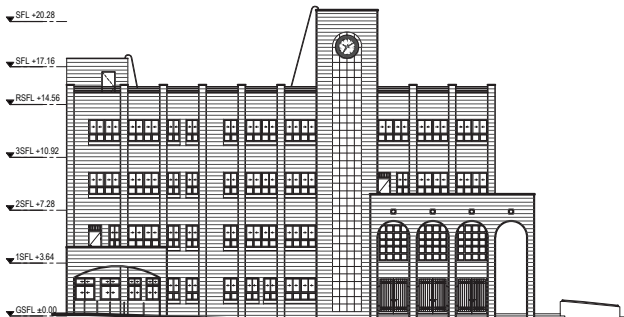
2階平面図



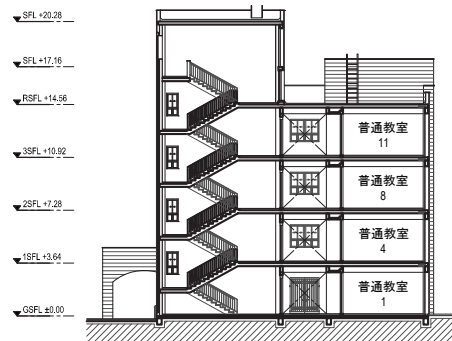
3階平面図



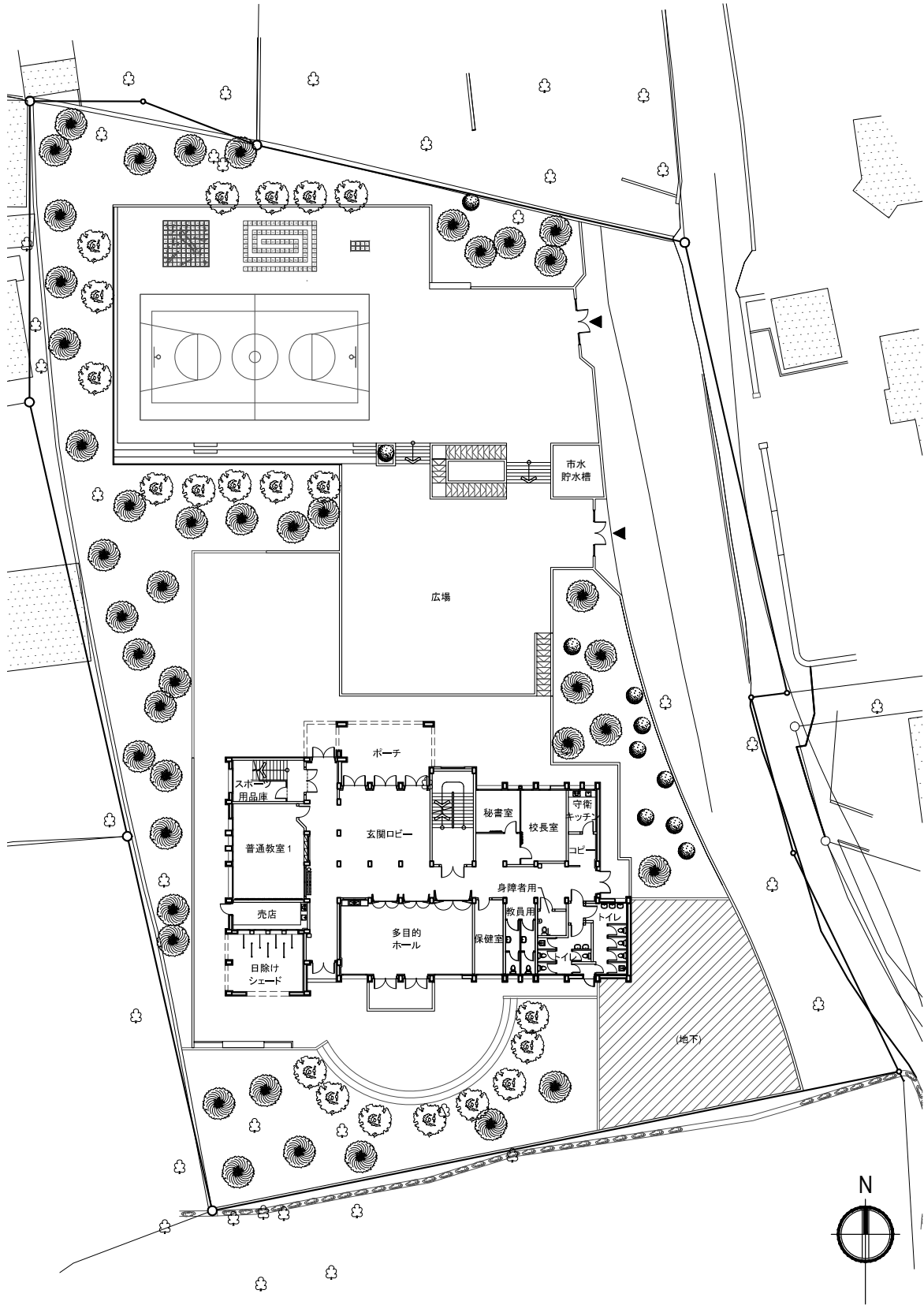
4階平面図



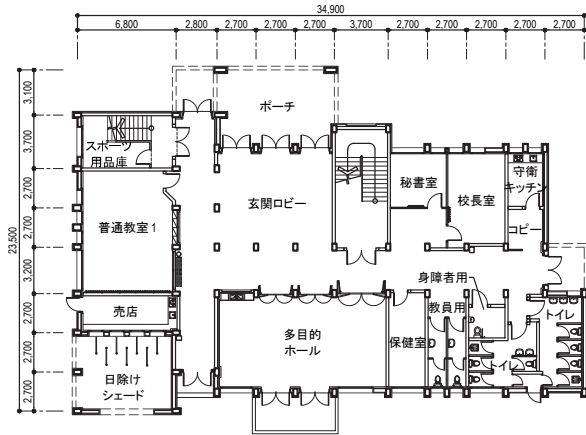
立面図



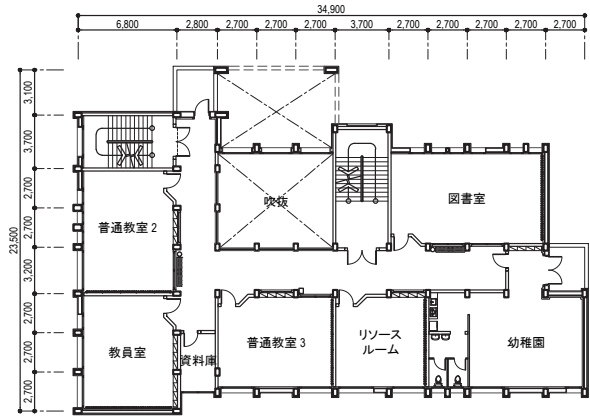
断面図



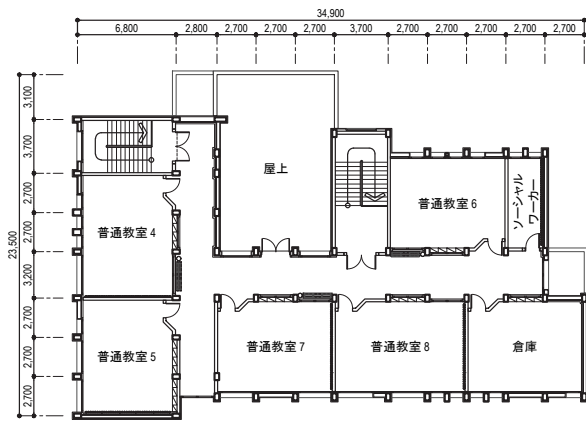
配置図



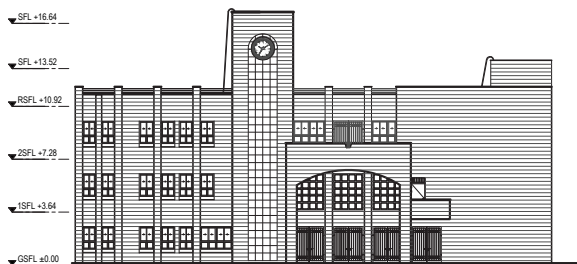
1階平面図



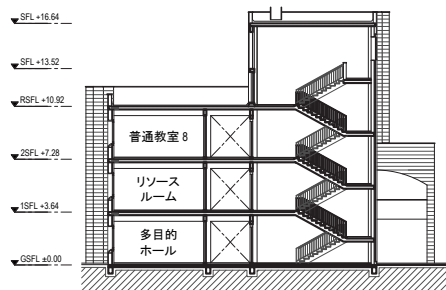
2階平面図



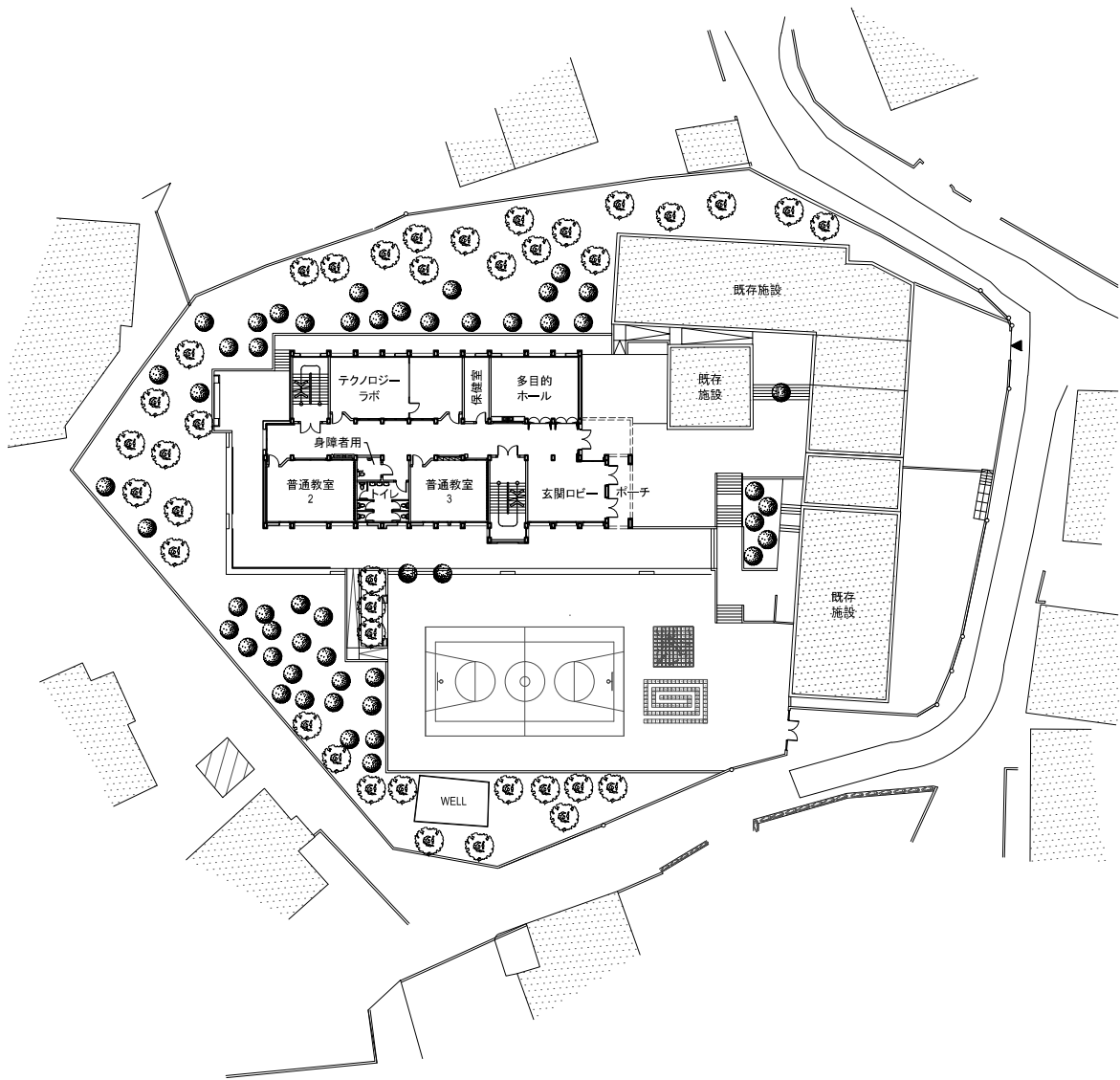
3階平面図



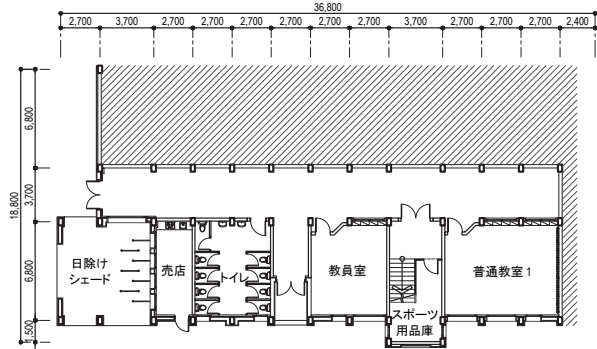
立面図



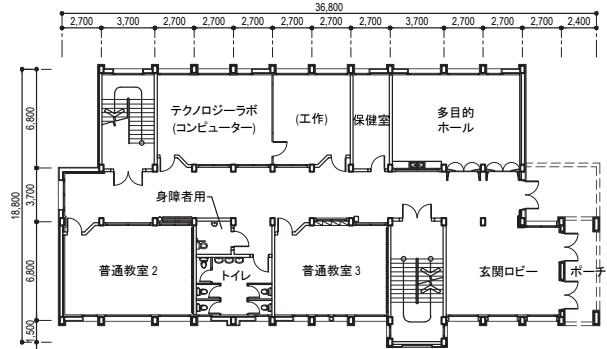
断面図



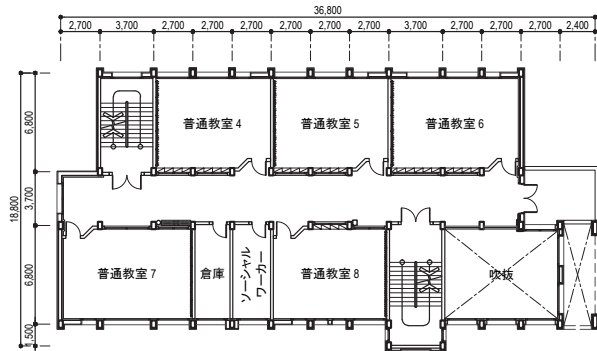
配置図



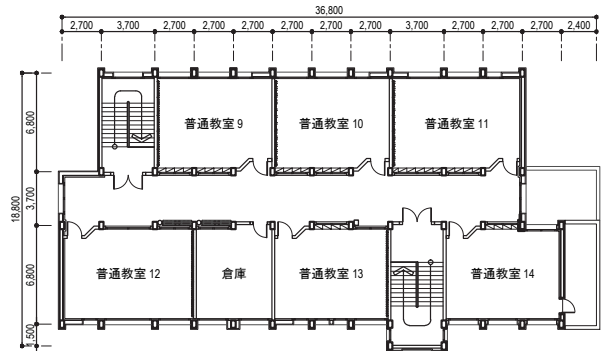
地下1階平面図



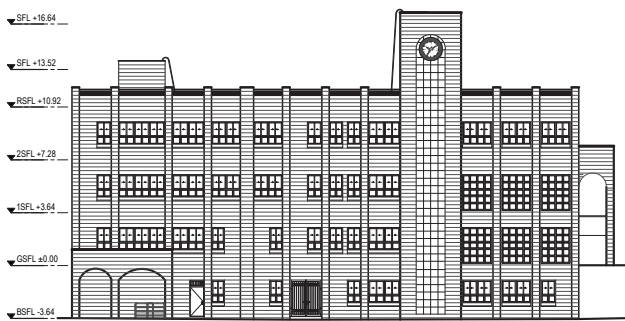
1階平面図



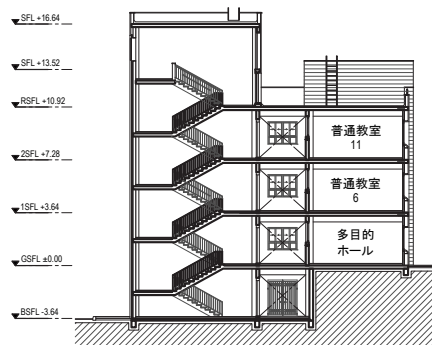
2階平面図



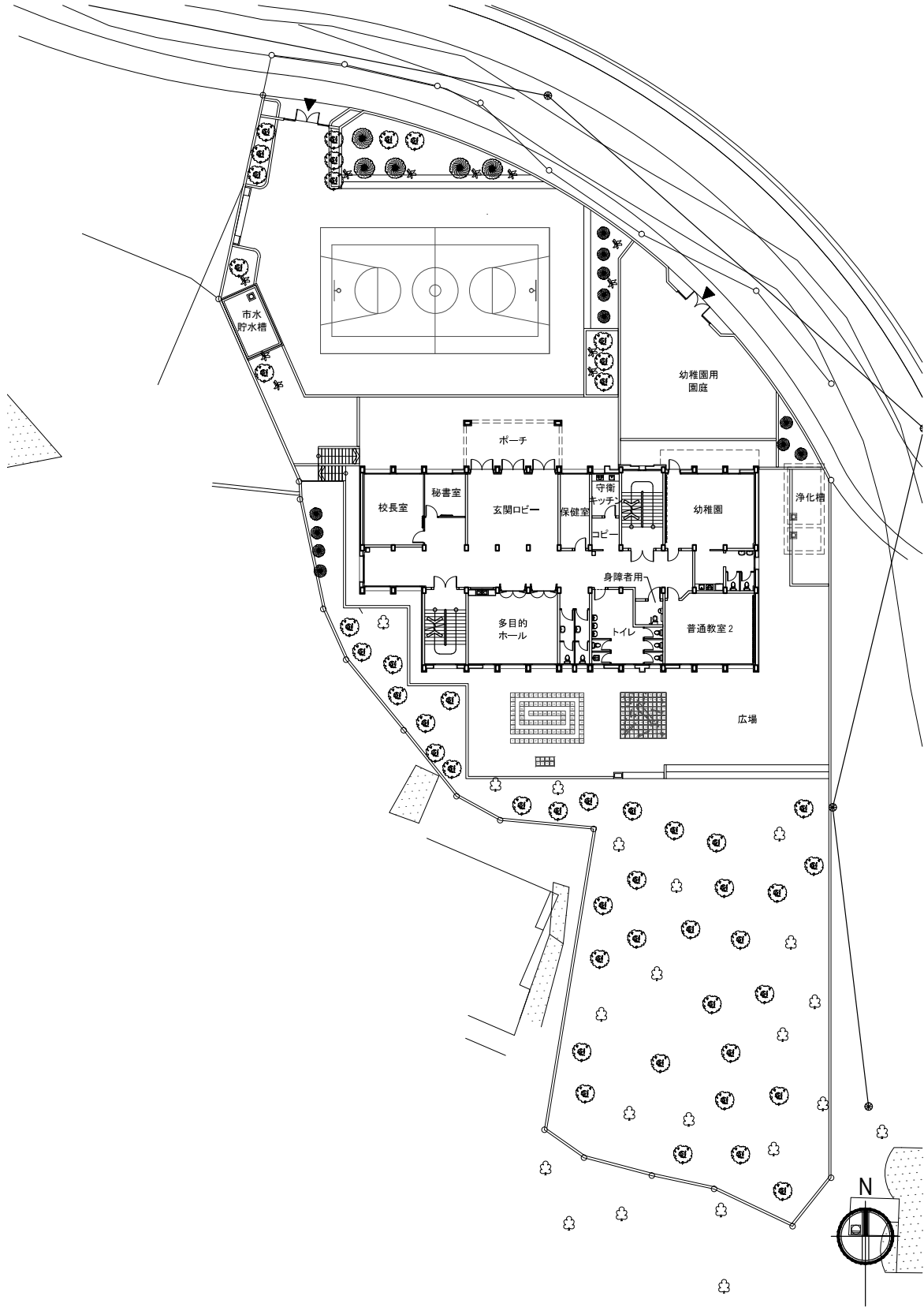
3階平面図



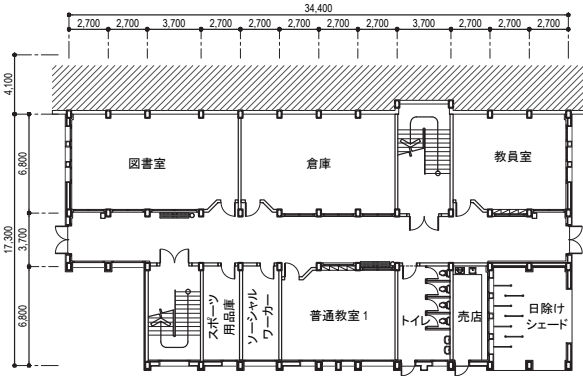
立面図



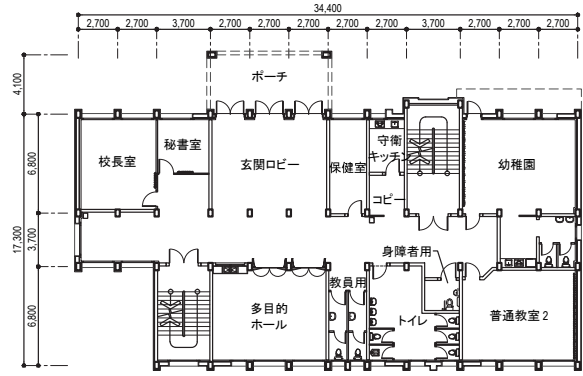
断面図



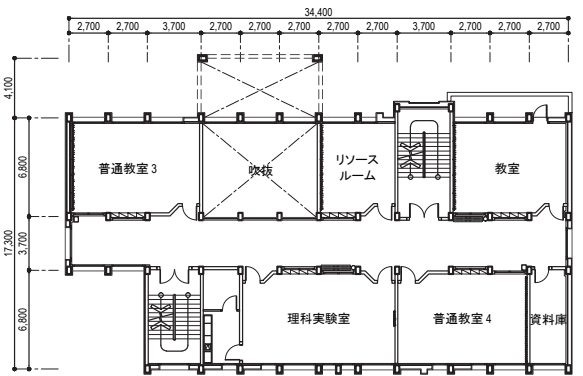
配置図



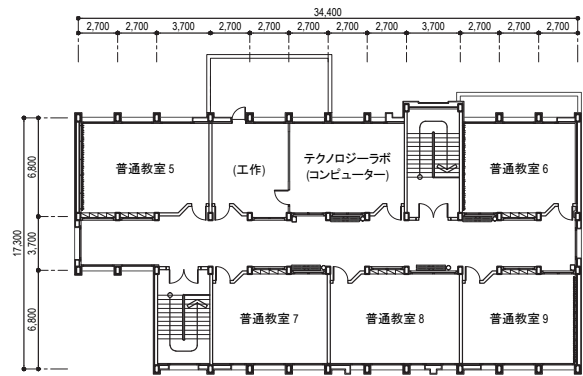
地下1階平面図



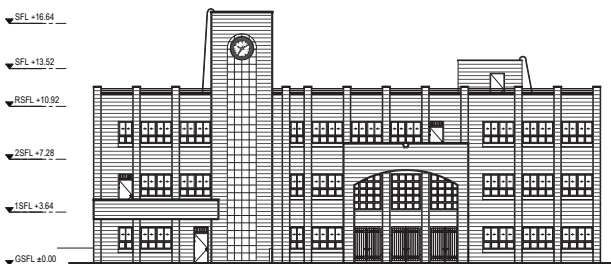
1階平面図



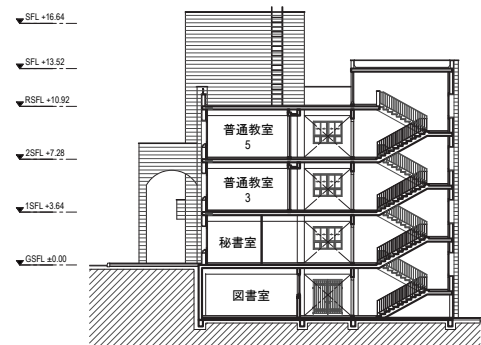
2階平面図



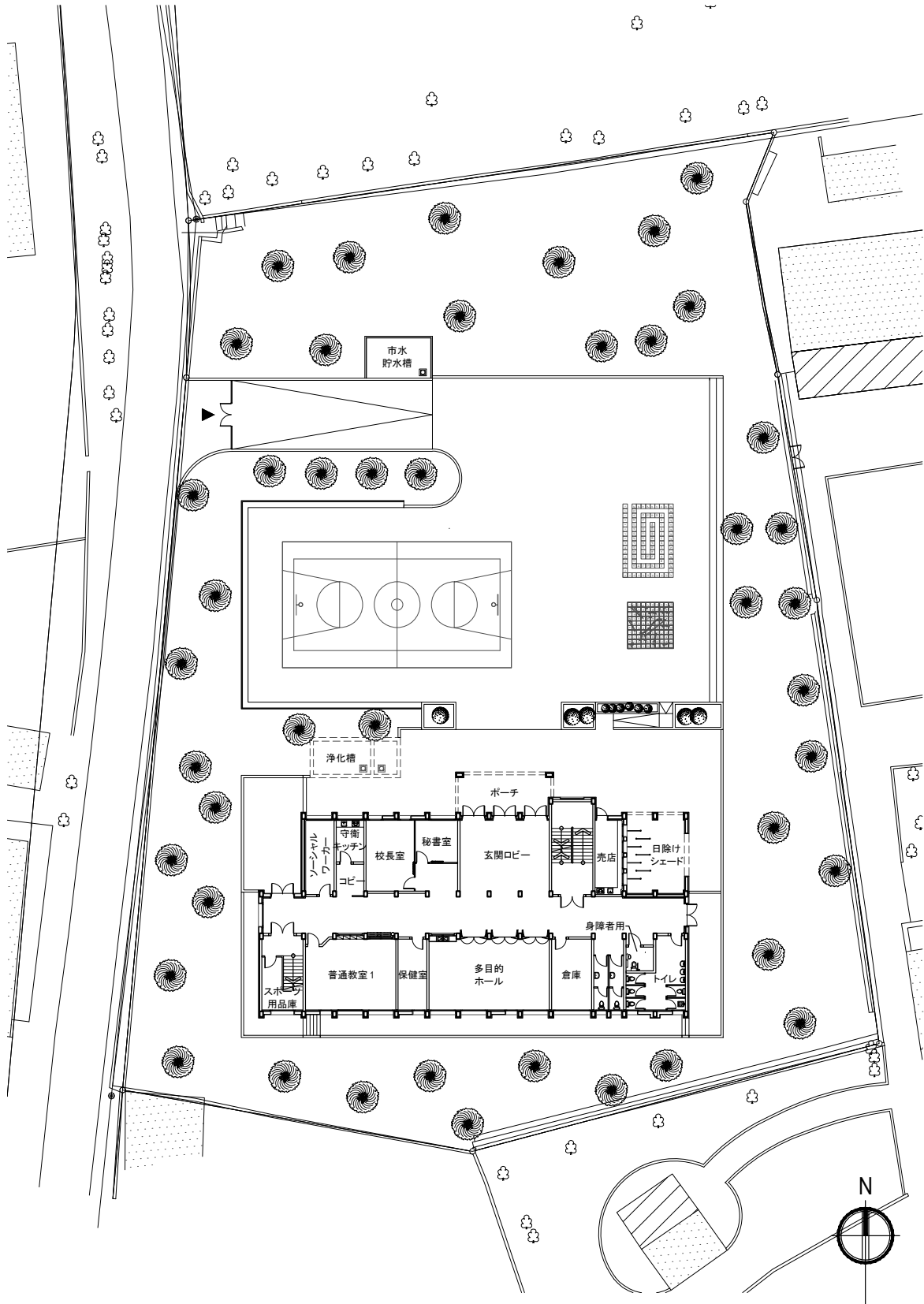
3階平面図



立面図

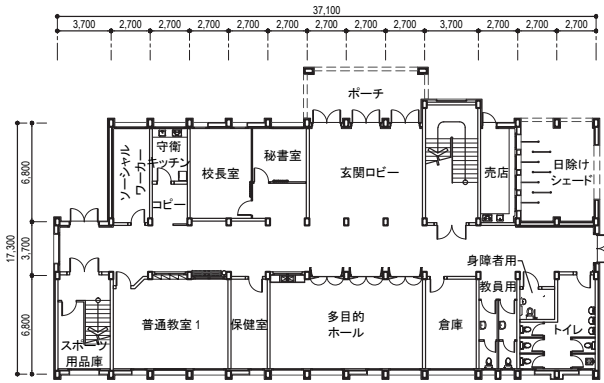


断面図

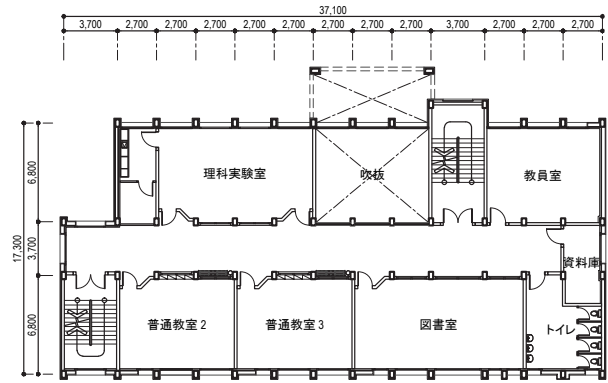


配置図

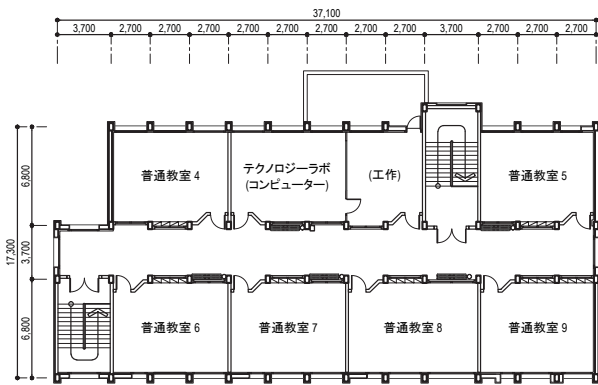




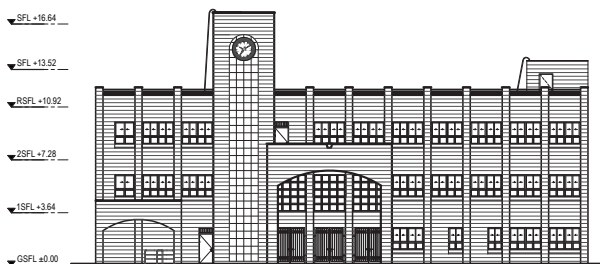
1階平面図



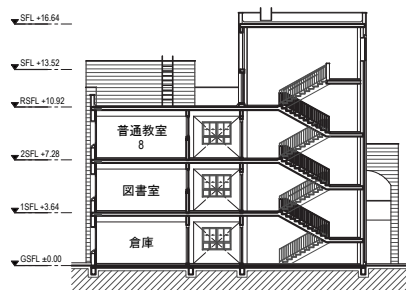
2階平面図



3階平面図



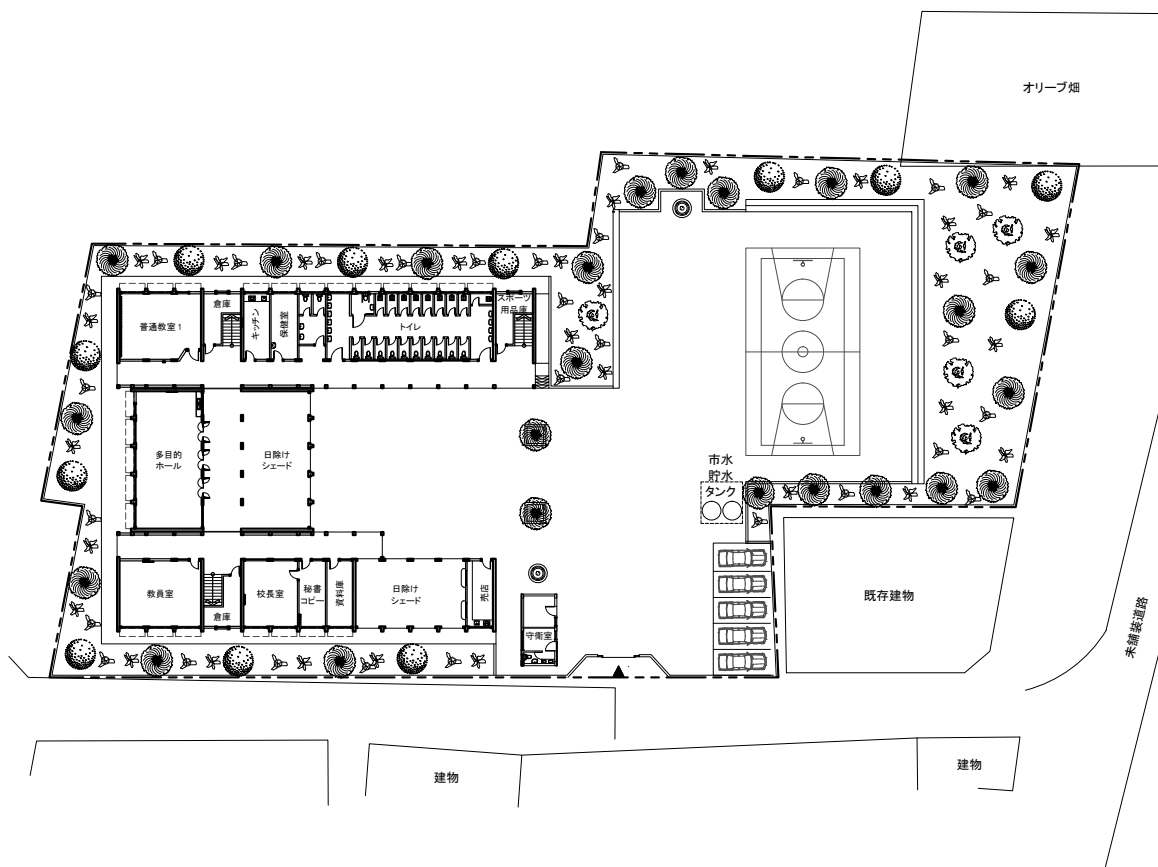
立面図



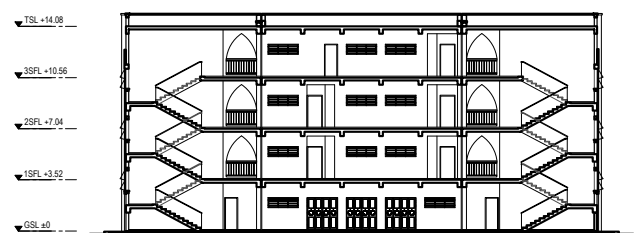
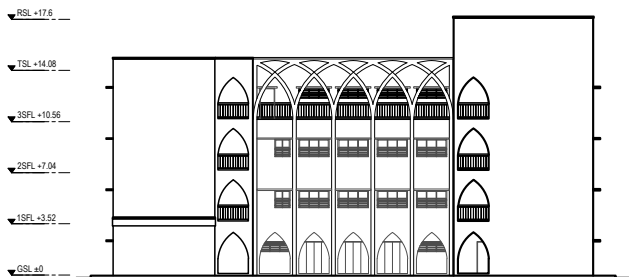
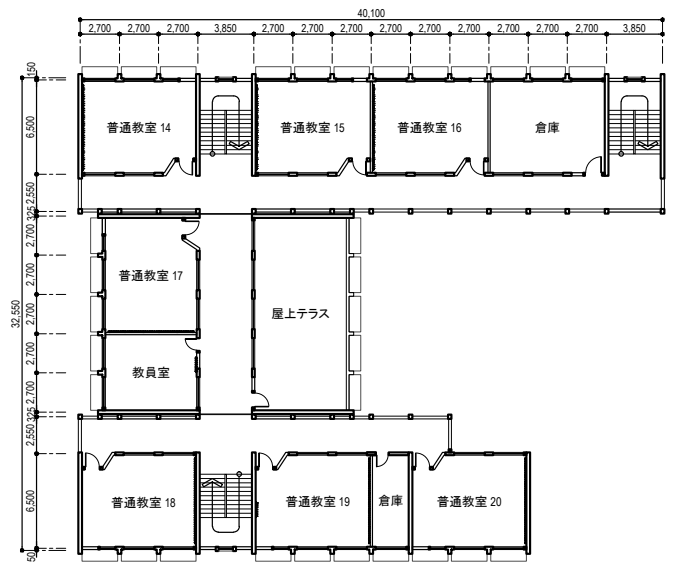
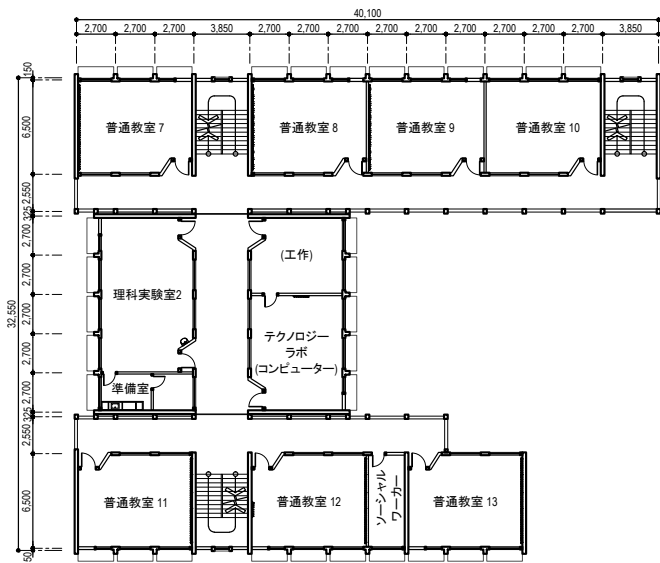
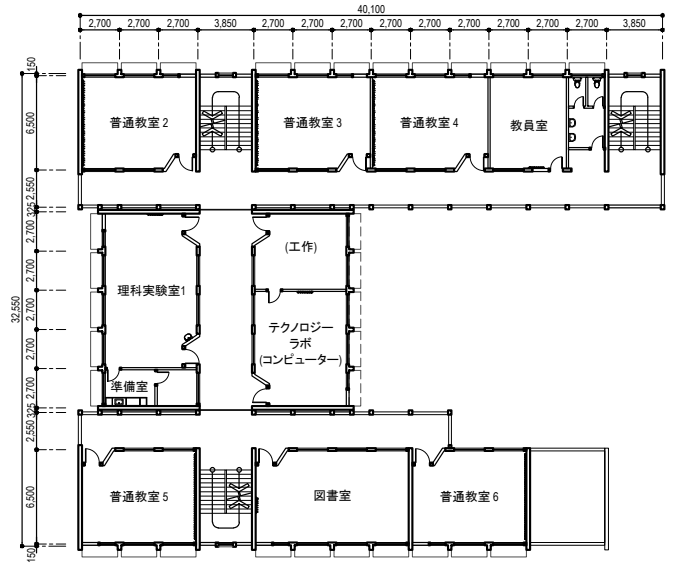
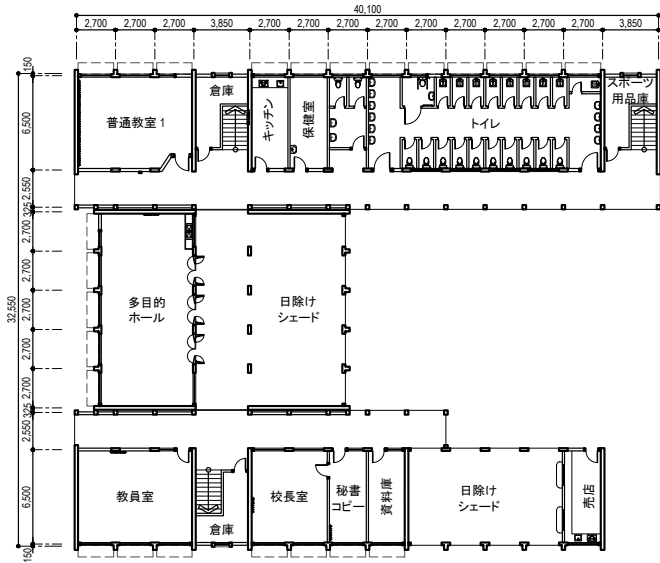
断面図

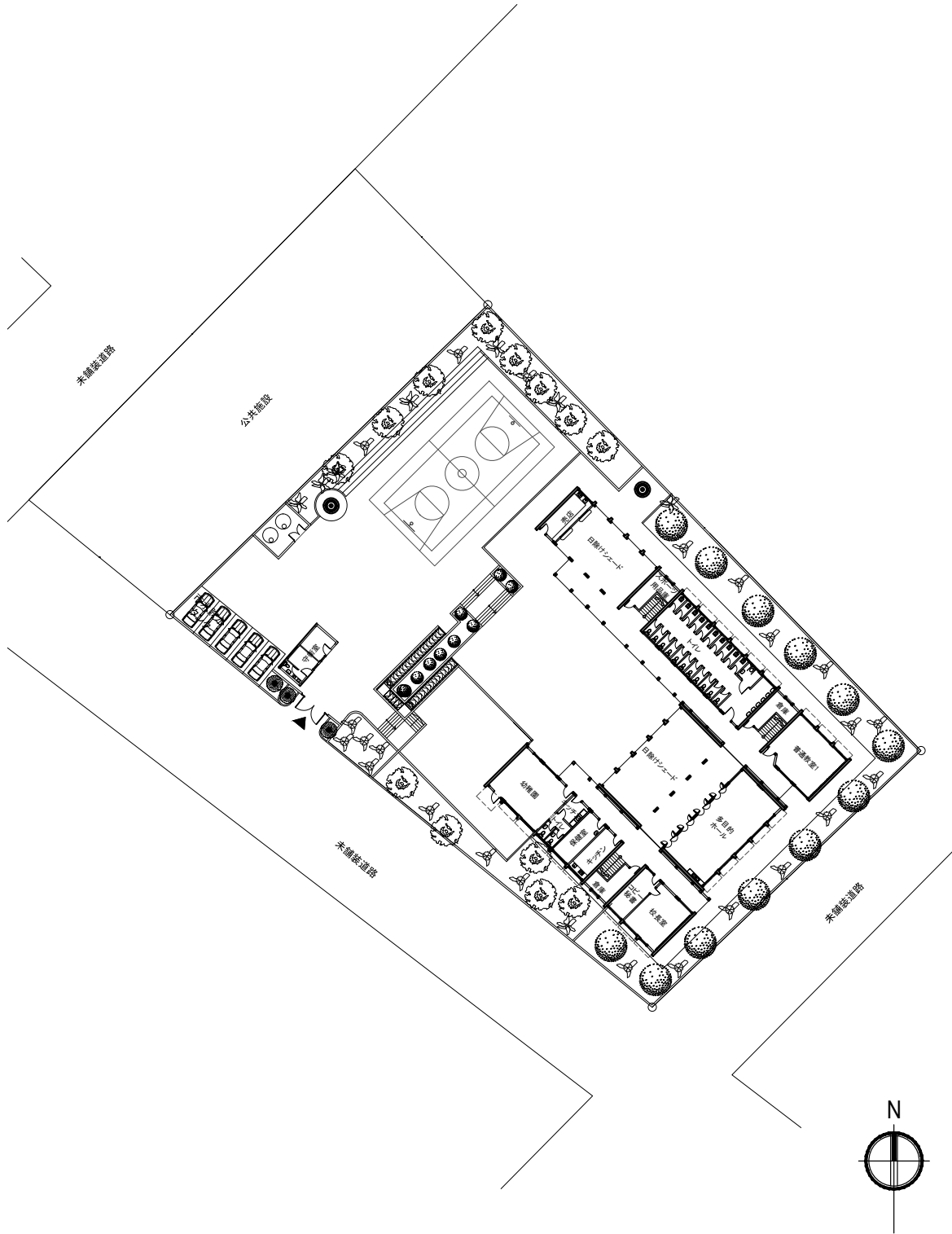


## 添付資料6-2 概略設計図(ガザ地区)

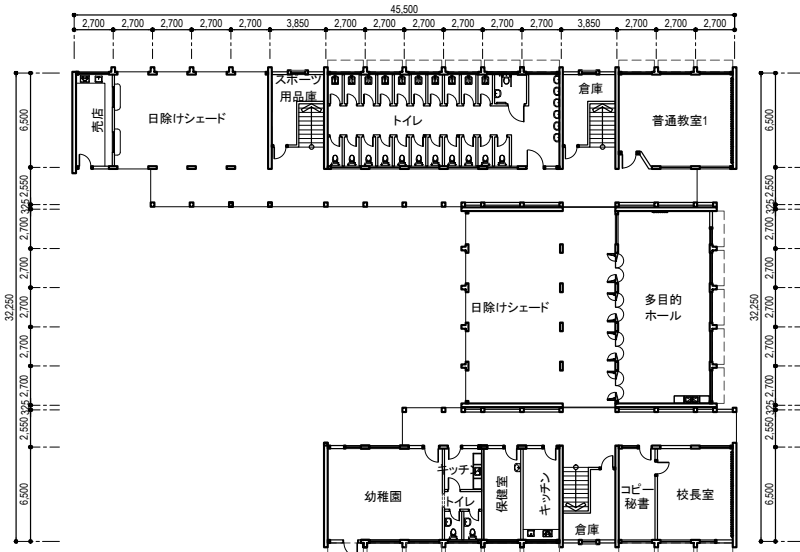


配置図

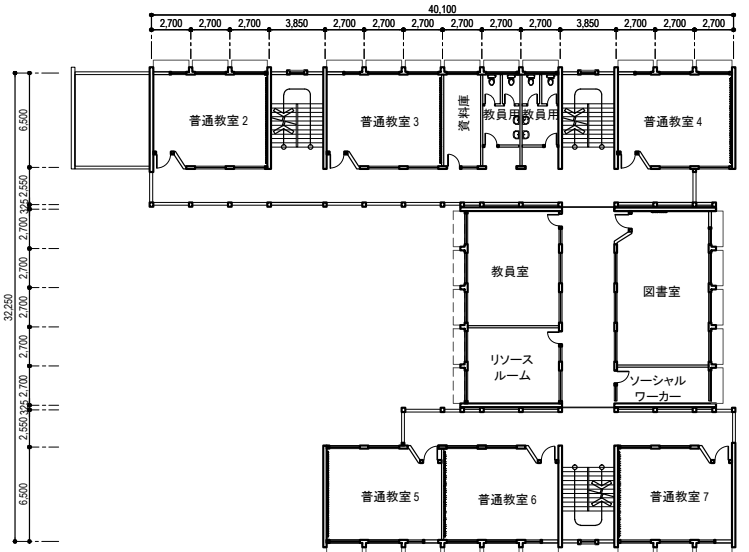




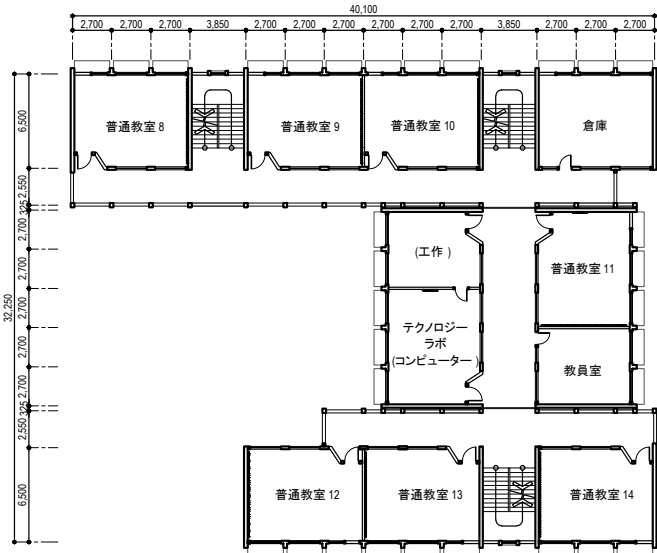
配置図



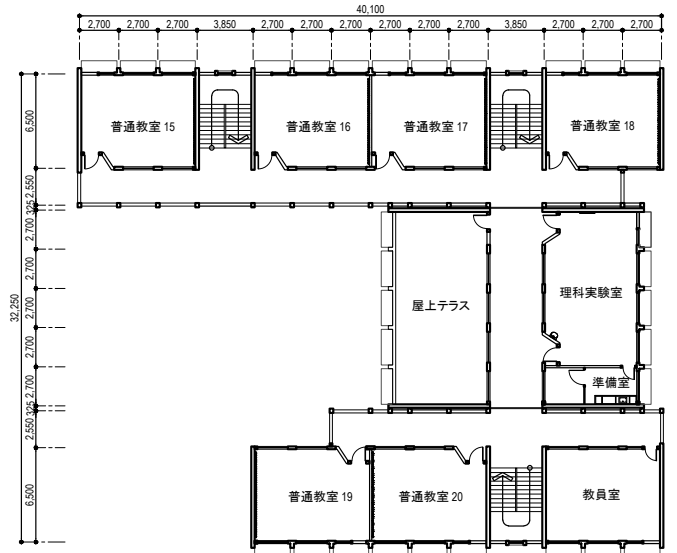
1階平面図



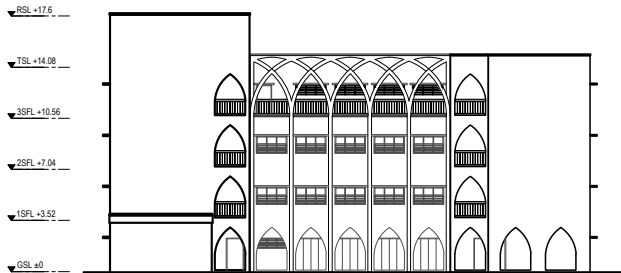
2階平面図



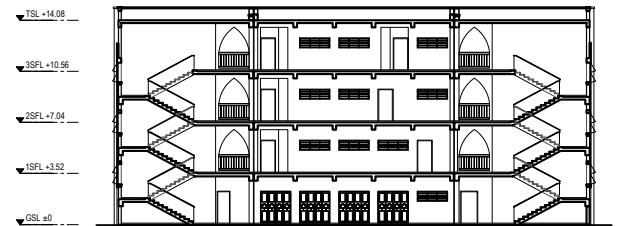
3階平面図



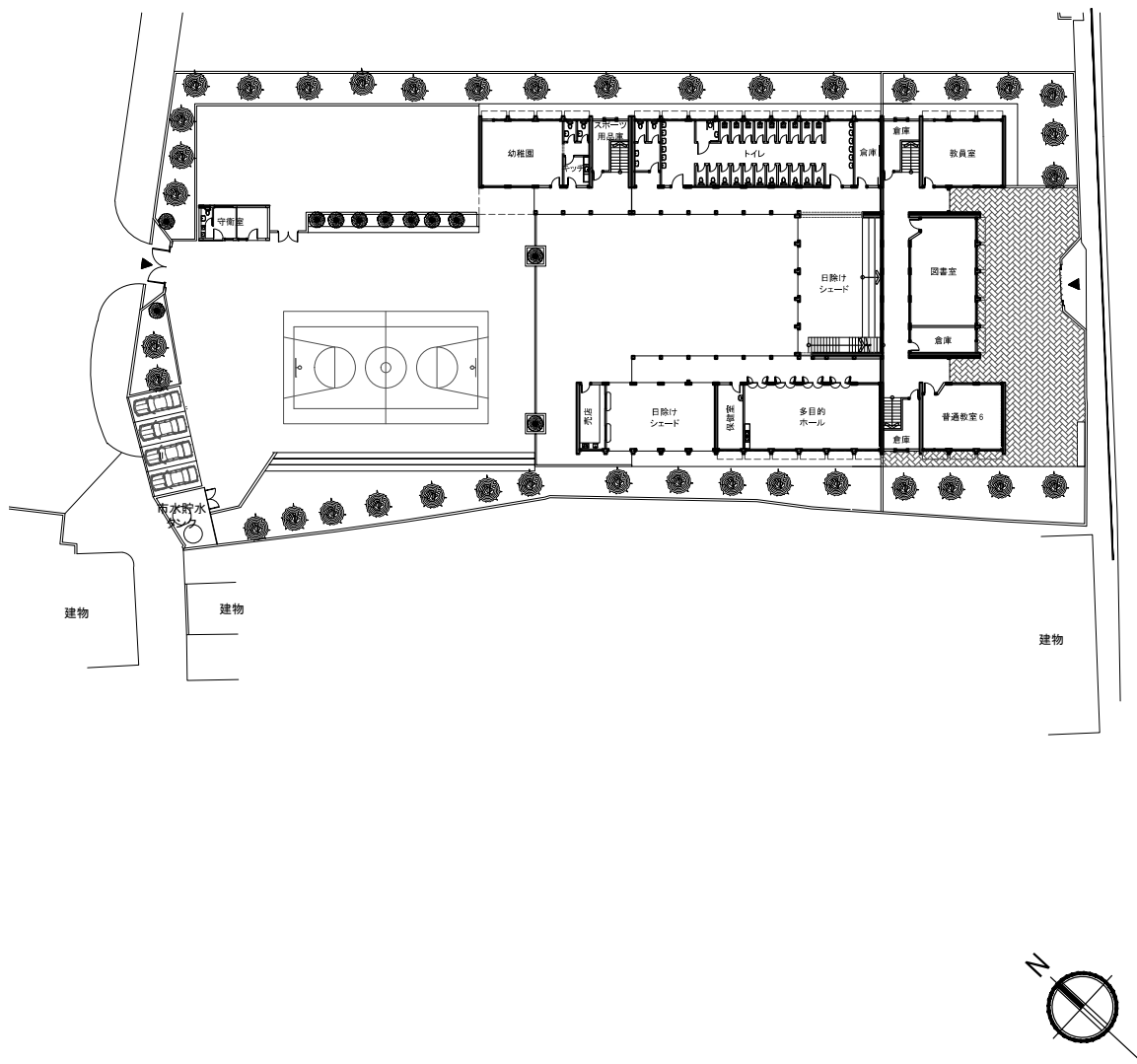
4階平面図



立面図

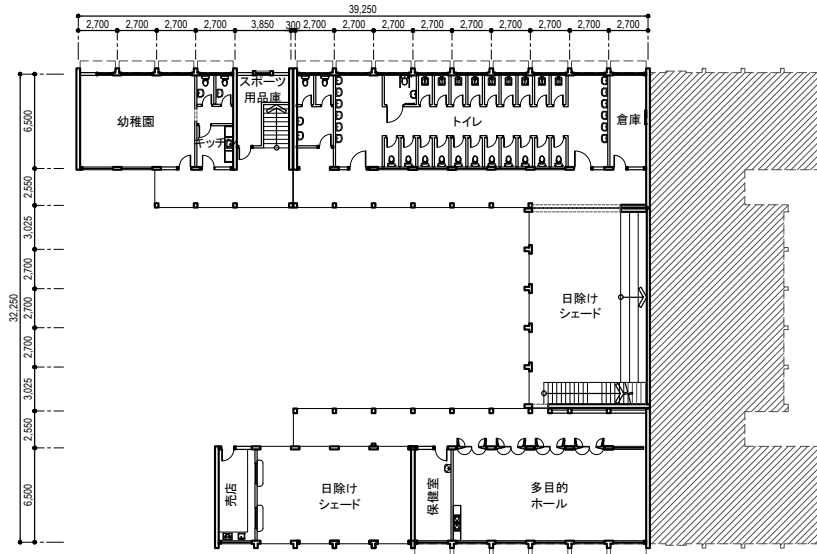


断面図

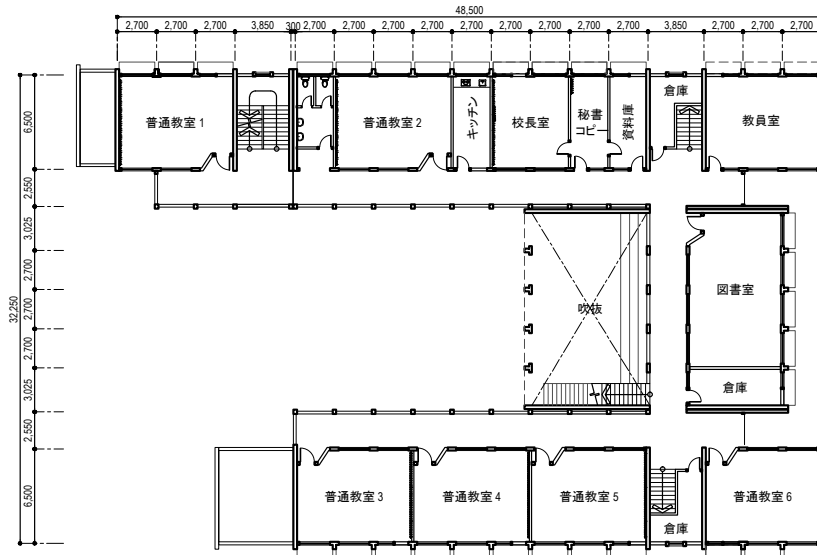


配置図

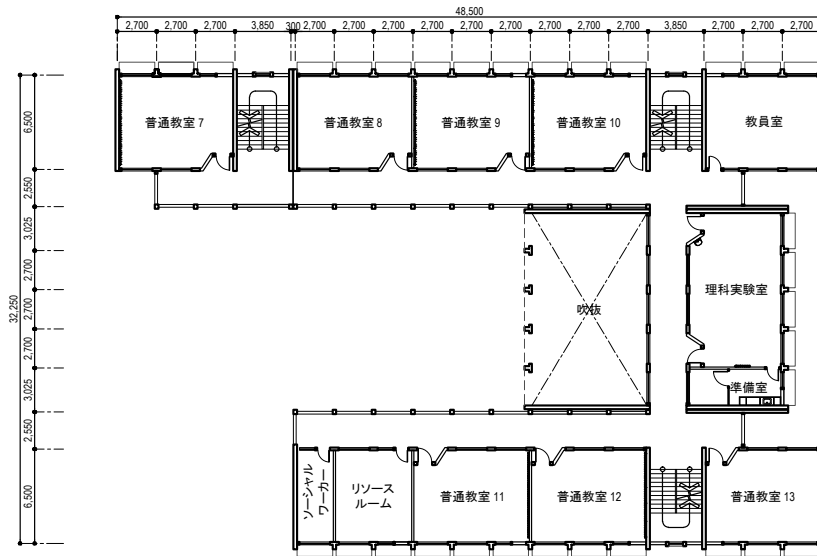




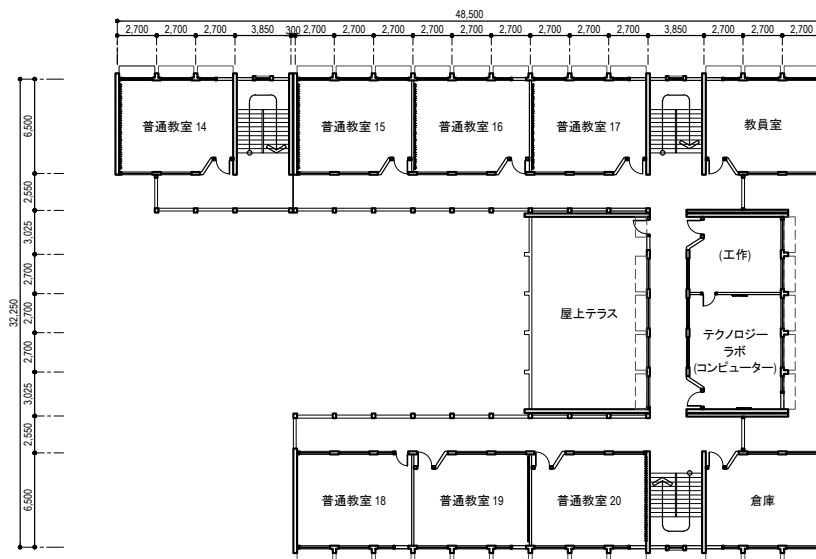
1階平面図



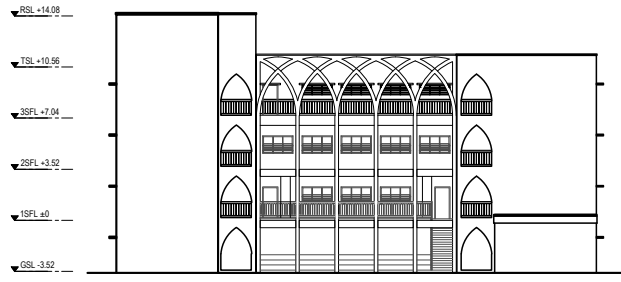
2階平面図



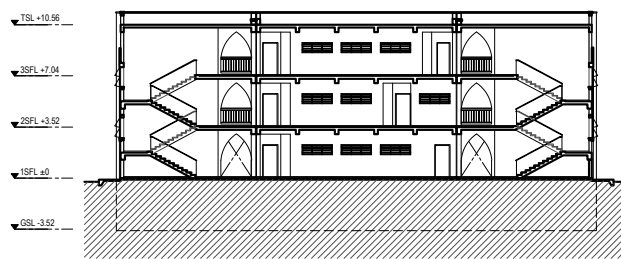
3階平面図



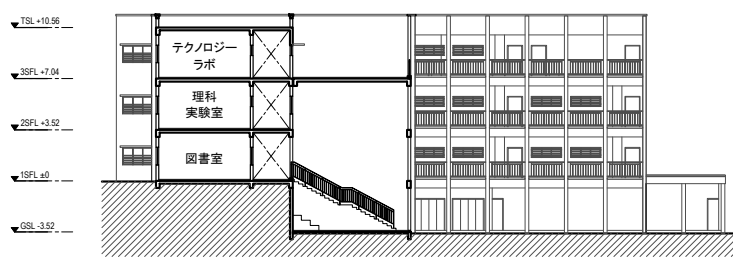
4階平面図



立面図

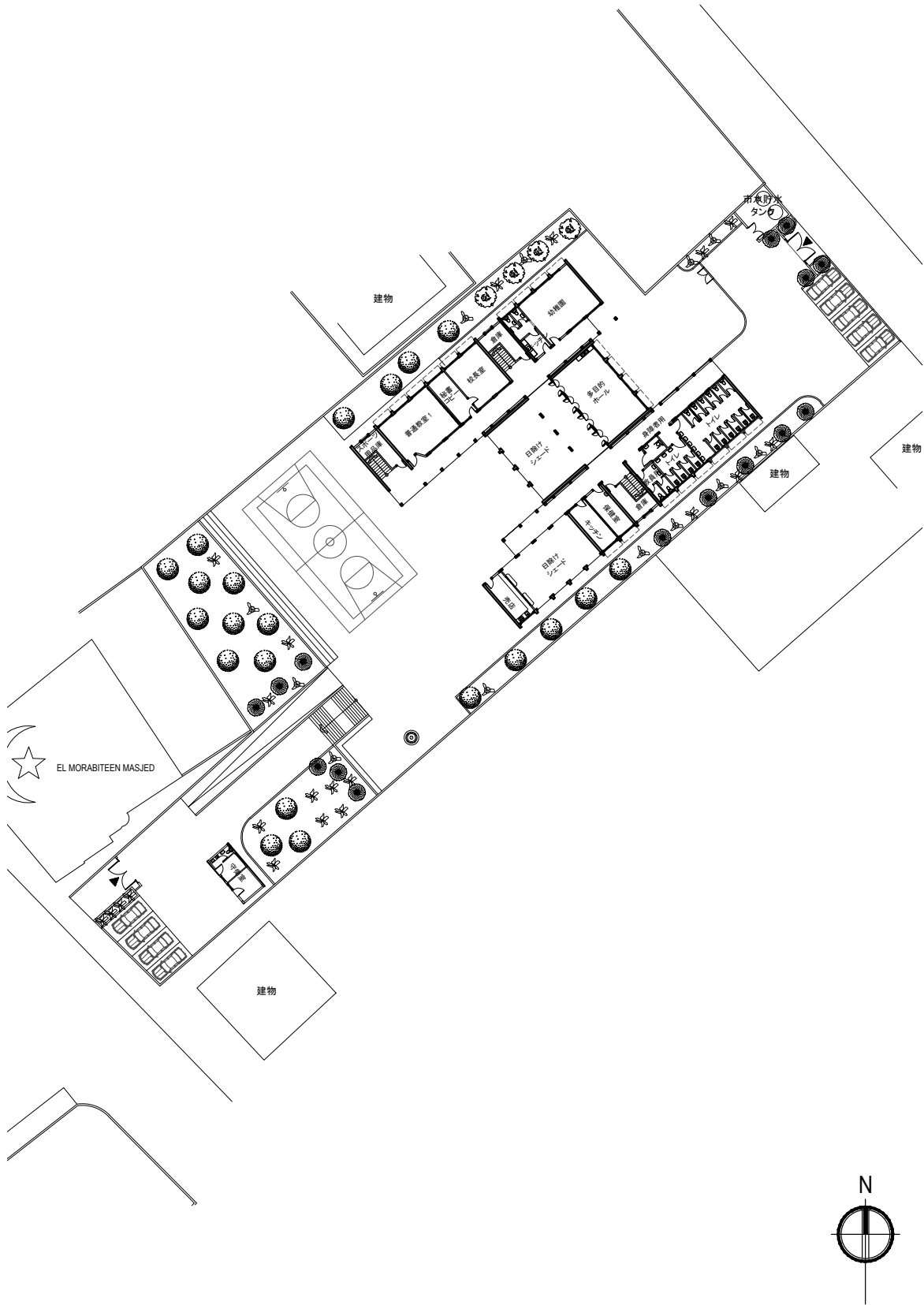


断面図

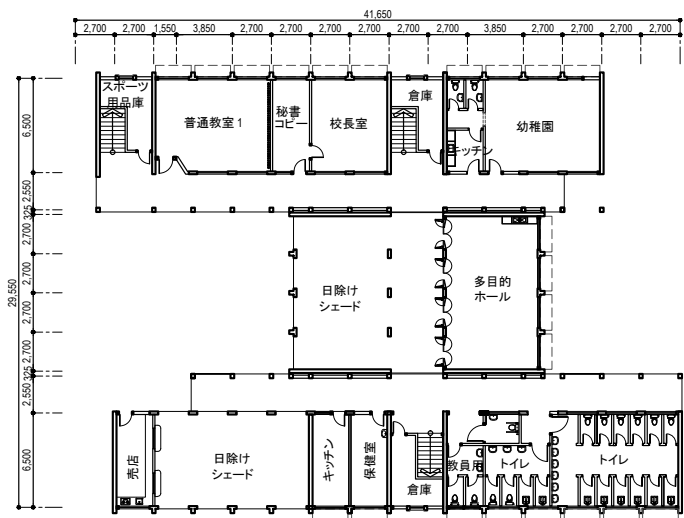


断面図

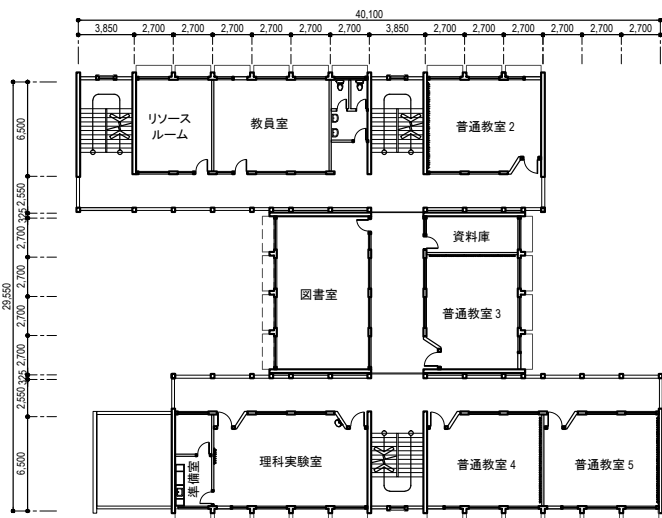




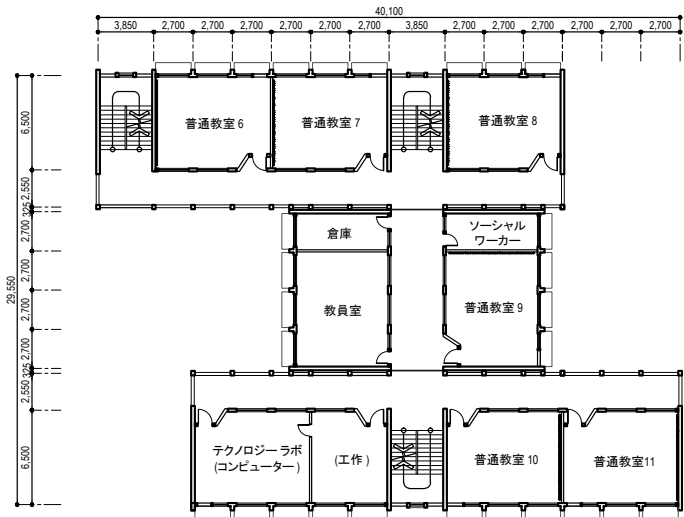
配置図



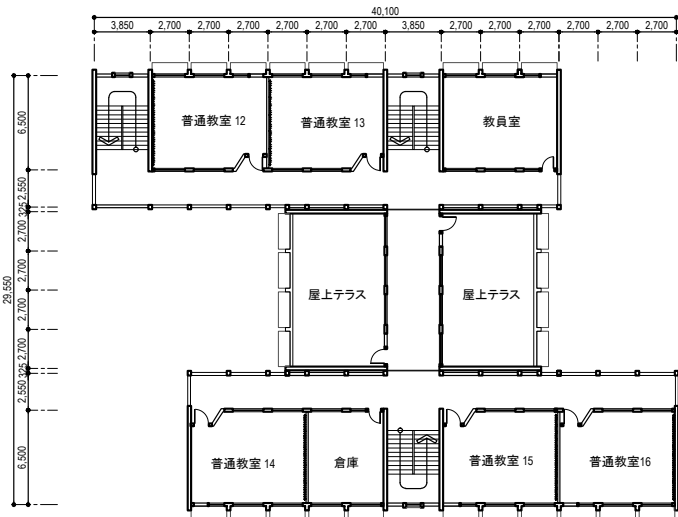
1階平面図



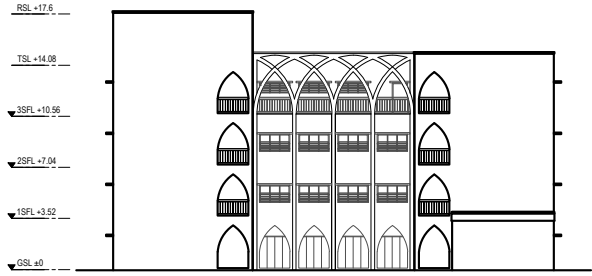
2階平面図



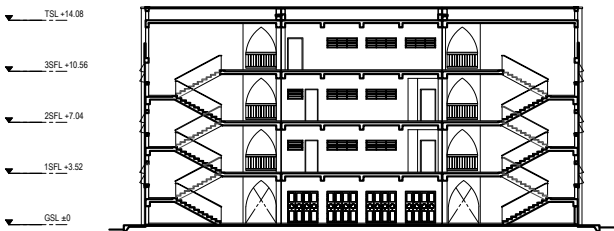
3階平面図



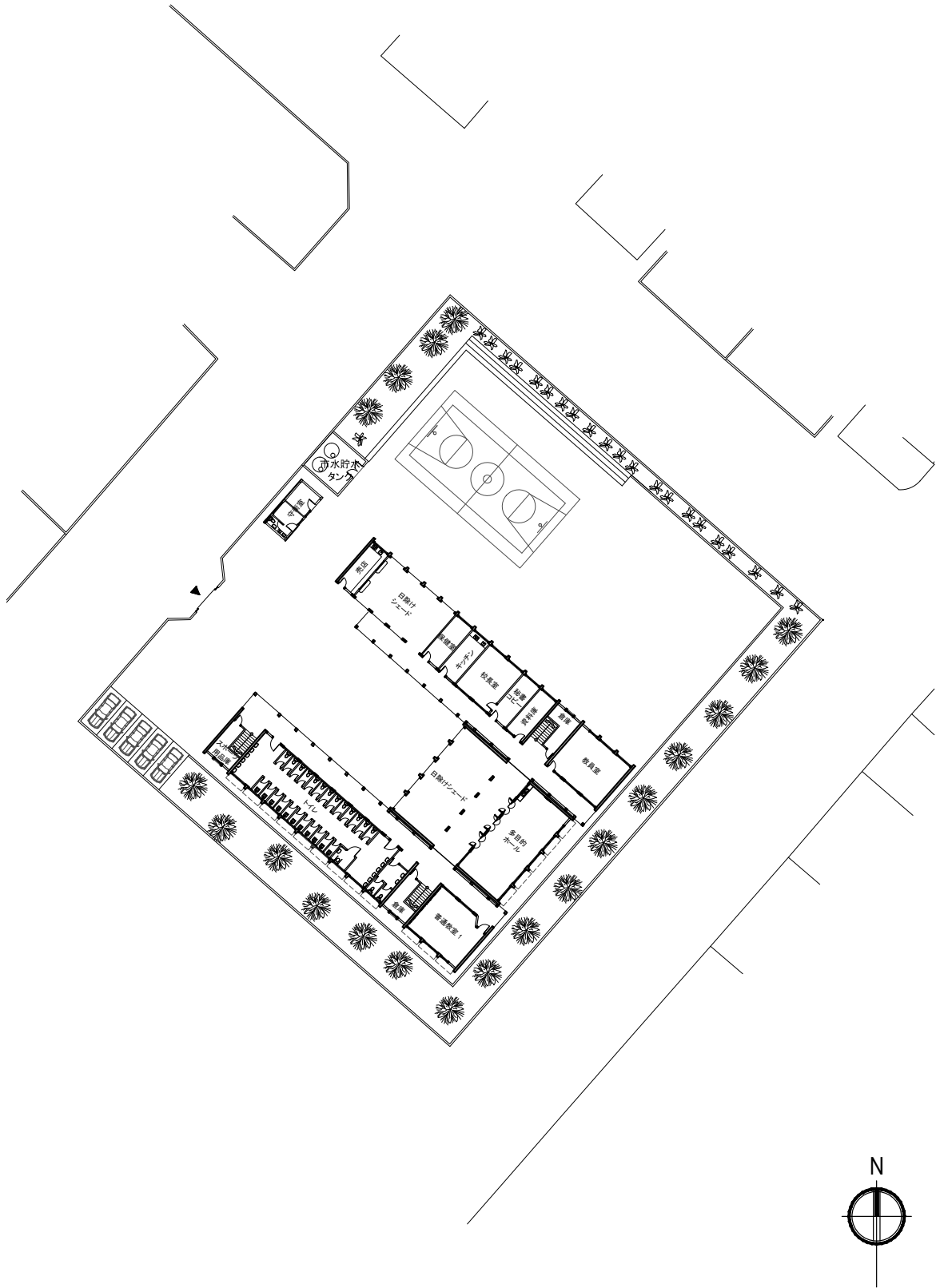
4階平面図



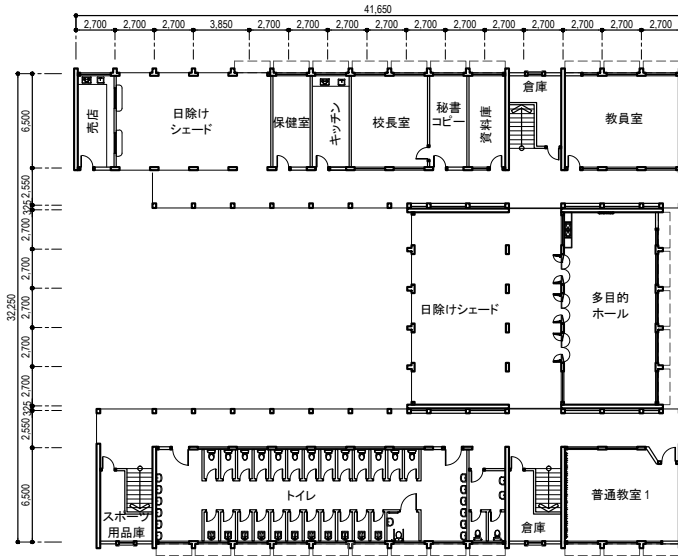
立面図



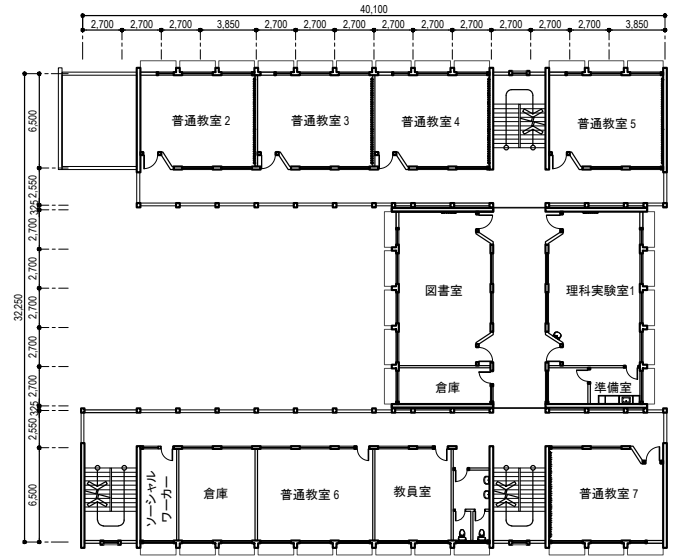
断面図



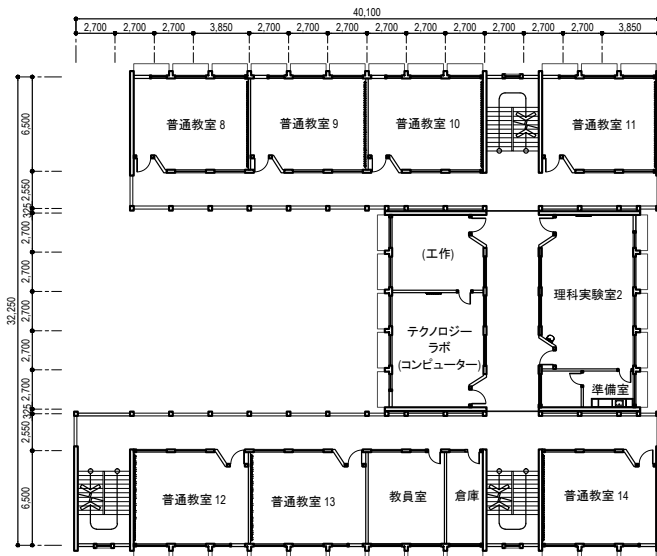
配置図



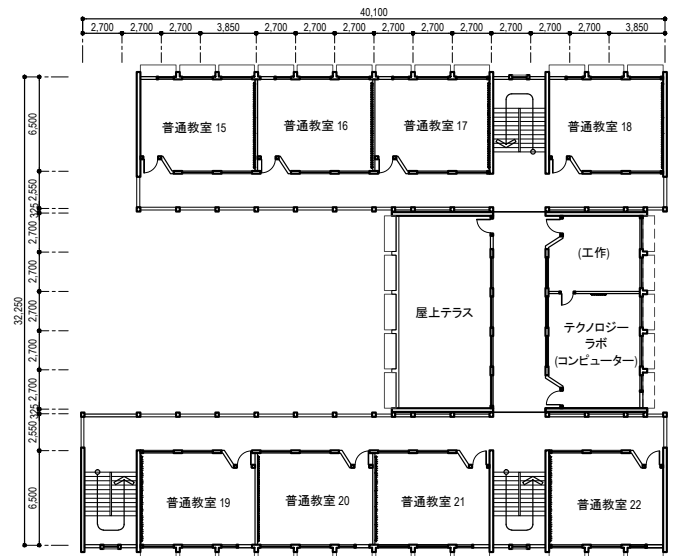
1階平面図



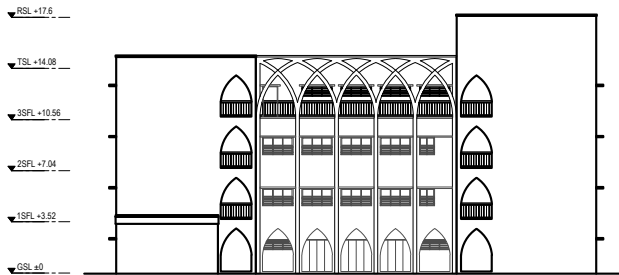
2階平面図



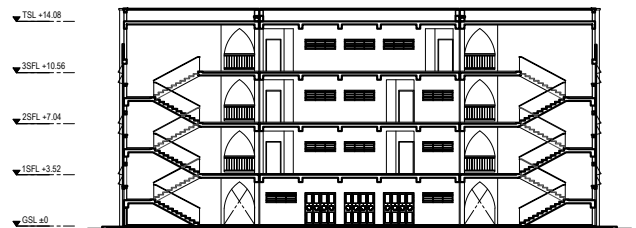
3階平面図



4階平面図



立面図



断面図





## 添付資料7 計画機材リスト

添付資料7. 計画機材リスト

【西岸地区 機材リスト】

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
<b>【普通教室】</b>							
W-1	キーボード付き小型PC(タブレット)	240	-	-	120	50	70
W-2	コンピューター(ラップトップ)	71	15	11	18	13	14
W-3	インタラクティブ・プロジェクター	52	12	8	14	9	9
<b>【図書室】</b>							
W-4	コンピューター(デスクトップ)	19	8	8	1	1	1
W-5	インタラクティブ・プロジェクター	5	1	1	1	1	1
<b>【事務部門(校長室)】</b>							
W-6	コンピューター(デスクトップ)	5	1	1	1	1	1
W-7	レーザープリンター	5	1	1	1	1	1
<b>【事務部門(教員室)】</b>							
W-8	コンピューター(デスクトップ)	10	2	2	2	2	2
<b>【事務部門(秘書室)】</b>							
W-9	コンピューター(デスクトップ)	5	1	1	1	1	1
W-10	レーザープリンター	5	1	1	1	1	1
<b>【事務部門(資料庫・コピー室)】</b>							
W-11	コピー機	5	1	1	1	1	1
<b>【多目的ホール】</b>							
W-12	LCDプロジェクター	5	1	1	1	1	1
W-13	コンピューター(ラップトップ)	5	1	1	1	1	1
<b>【理科実験室】</b>							
W-14	コンピューター(ラップトップ)	2	-	-	1	-	1
W-15	カラーレーザープリンター	2	-	-	1	-	1
W-16	LCDプロジェクター	2	-	-	1	-	1
W-17	ボール・リングセット	18	-	-	6	6	6
W-18	棒磁石	30	6	6	6	6	6
W-19	真空ポンプセット	3	-	-	1	1	1
W-20	方位磁石	30	6	6	6	6	6
W-21	バイメタル棒	9	-	-	3	3	3

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-22	手動発電機	15	3	3	3	3	3
W-23	エボナイト棒	15	3	3	3	3	3
W-24	ガラス棒	15	3	3	3	3	3
W-25	電子天秤	18	-	-	6	6	6
W-26	検電器	30	6	6	6	6	6
W-27	熱伝導装置	18	-	-	6	6	6
W-28	高圧電源装置	2	-	-	1	-	1
W-29	U型磁石	30	6	6	6	6	6
W-30	レンズセット	15	3	3	3	3	3
W-31	直線式力学台車	3	-	-	1	1	1
W-32	低圧電源装置	18	-	-	6	6	6
W-33	磁力観察箱	9	-	-	3	3	3
W-34	マイクロメーター	18	-	-	6	6	6
W-35	鏡	30	6	6	6	6	6
W-36	波実験装置	3	-	-	1	1	1
W-37	電気スパーク装置	3	-	-	1	1	1
W-38	分銅セット	15	3	3	3	3	3
W-39	バネ秤セット	15	3	3	3	3	3
W-40	自動落下実験装置	3	-	-	1	1	1
W-41	太陽—地球—月モデル	5	1	1	1	1	1
W-42	共鳴箱付音叉	9	-	-	3	3	3
W-43	音叉	15	3	3	3	3	3
W-44	ヴァンデグラフ起電器	3	-	-	1	1	1
W-45	副尺付ノギス	18	-	-	6	6	6
W-46	クランプ(万能タイプ)	15	3	3	3	3	3
W-47	ダブル45クランプ	30	6	6	6	6	6
W-48	岩石・鉱物セット	5	1	1	1	1	1
W-49	支持リング	30	6	6	6	6	6
W-50	工具セット	3	-	-	1	1	1
W-51	体積変位測定容器	18	-	-	6	6	6
W-52	物の重さ比較素材セット	18	-	-	6	6	6
W-53	振り子セット(シンプル)	18	-	-	6	6	6

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-54	線膨張実験器	18	-	-	6	6	6
W-55	電気式熱量計	9	-	-	3	3	3
W-56	変圧器(取り外し可能)	2	-	-	1	-	1
W-57	力学実験台(滑車実験)	3	-	-	1	1	1
W-58	レーザージオプティックセット	9	-	-	3	3	3
W-59	フックの法則実験装置	18	-	-	6	6	6
W-60	ホープの装置(水の密度)	3	-	-	1	1	1
W-61	可動コイル検流計(マイクロアンペアメーター)	18	-	-	6	6	6
W-62	デジタルマルチメーター	18	-	-	6	6	6
W-63	光学台	3	-	-	1	1	1
W-64	ソーラー発電装置	30	6	6	6	6	6
W-65	元素周期律表	3	-	-	1	1	1
W-66	レトルトスタンド	30	6	6	6	6	6
W-67	三脚	30	6	6	6	6	6
W-68	基礎電気・電子キット	12	-	-	6	-	6
W-69	光屈折実験装置	18	-	-	6	6	6
W-70	てこ実験セット	9	-	-	3	3	3
W-71	並列電流間エネルギー説明装置	2	-	-	1	-	1
W-72	磁界導体エネルギー説明装置	6	-	-	3	-	3
W-73	誘導コイル	12	-	-	6	-	6
W-74	セラミック金網	30	6	6	6	6	6
W-75	洗瓶	18	-	-	6	6	6
W-76	シンプル回路キット	12	-	-	6	6	-
W-77	デジタル計測計	9	-	-	3	3	3
W-78	2D 磁場実験装置	18	-	-	6	6	6
W-79	消火器	3	-	-	1	1	1
W-80	ホフマン電量計	9	-	-	3	3	3
W-81	液体比重計	18	-	-	6	6	6
W-82	湿度計(湿乾)	9	-	-	3	3	3
W-83	ガスバーナー	18	-	-	6	6	6
W-84	気体のスペクトル	2	-	-	1	-	1
W-85	原子模型	9	-	-	3	3	3

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-86	ビーカー	15	3	3	3	3	3
W-87	ビュレット	9	-	-	3	3	3
W-88	ビュレットクランプ	9	-	-	3	3	3
W-89	蒸留装置	9	-	-	3	3	3
W-90	三角フラスコ	15	3	3	3	3	3
W-91	メスシリンダー	15	3	3	3	3	3
W-92	ピペット	9	-	-	3	3	3
W-93	ピペットフィルター	9	-	-	3	3	3
W-94	ポータブルpHメーター	18	-	-	6	6	6
W-95	試験管	3	-	-	1	1	1
W-96	試験管ラック	18	-	-	6	6	6
W-97	温度計	15	3	3	3	3	3
W-98	解剖セット	3	-	-	1	1	1
W-99	ヒト脳模型	3	-	-	1	1	1
W-100	ヒト循環器チャート	5	1	1	1	1	1
W-101	ヒト消化器チャート	5	1	1	1	1	1
W-102	ヒト耳模型	5	1	1	1	1	1
W-103	ヒト目模型	5	1	1	1	1	1
W-104	ヒト心臓模型	5	1	1	1	1	1
W-105	ヒト腎臓模型	3	-	-	1	1	1
W-106	ヒト筋肉チャート	5	1	1	1	1	1
W-107	ヒト神経チャート	3	-	-	1	1	1
W-108	ヒト呼吸器チャート	5	1	1	1	1	1
W-109	ヒト骨格模型	5	1	1	1	1	1
W-110	ヒト胴体模型	3	-	-	1	1	1
W-111	ヒト泌尿器チャート	5	1	1	1	1	1
W-112	単眼顕微鏡	18	-	-	6	6	6
W-113	実体顕微鏡	9	-	-	3	3	3
W-114	デジタル血圧計	9	-	-	3	3	3
W-115	ヒト歯模型	5	1	1	1	1	1
W-116	顕微鏡用スライドグラスセット	9	-	-	3	3	3
W-117	DNA模型	9	-	-	3	3	3

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-118	るつぼ(蓋付)	9	-	-	3	3	3
W-119	攪拌棒	3	-	-	1	1	1
W-120	手持ち拡大鏡	30	6	6	6	6	6
W-121	安全メガネ	120	-	-	40	40	40
W-122	スライドグラス(プレーン)	9	-	-	3	3	3
W-123	スライドグラスカバースリップ	18	-	-	6	6	6
W-124	解剖皿	15	3	3	3	3	3
W-125	メートル尺・メートル定規	15	3	3	3	3	3
W-126	斜面実験装置	15	3	3	3	3	3
W-127	バナナプラグ探針リード線(スタックブル)	5	1	1	1	1	1
W-128	ワニ口クリップ付リード線(中サイズ、赤黒)	5	1	1	1	1	1
W-129	丸型炭素電極	3	-	-	1	1	1
W-130	プリズムガラス(正三角形タイプ)	18	-	-	6	6	6
W-131	プリズムガラス(直角タイプ)	18	-	-	6	6	6
W-132	金属バネ	9	-	-	3	3	3
W-133	ピペットポンプ	18	-	-	6	6	6
W-134	アルコールランプ	30	6	6	6	6	6
W-135	圧力実験計	9	-	-	3	3	3
W-136	U型チューブ	18	-	-	6	6	6
W-137	ガラス漏斗	18	-	-	6	6	6
W-138	ガラス管	5	1	1	1	1	1
W-139	試験管ばさみ	18	-	-	6	6	6
W-140	デジタルカメラ接眼レンズ	18	-	-	6	6	6
W-141	マルチ実験機器セット	2	-	-	1	-	1
<b>【テクノロジーラボ】</b>							
W-142	ハンマードリル	6	-	-	2	2	2
W-143	アングルグラインダー	3	-	-	1	1	1
W-144	細帯鋸	6	-	-	2	2	2
W-145	糸鋸	6	-	-	2	2	2
W-146	ドリル/ドライバー	18	-	-	6	6	6
W-147	丸鋸	3	-	-	1	1	1
W-148	卓上万能のこぎり	3	-	-	1	1	1

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-149	ルーター	3	-	-	1	1	1
W-150	ベルト式研磨機	3	-	-	1	1	1
W-151	フィニッシングサンダー	3	-	-	1	1	1
W-152	ボール盤	3	-	-	1	1	1
W-153	卓上研磨切断のこぎり	3	-	-	1	1	1
W-154	ダブルグラインダー	3	-	-	1	1	1
W-155	小型木工旋盤	3	-	-	1	1	1
W-156	AC & DC 電源装置	18	-	-	6	6	6
W-157	電気溶接機	3	-	-	1	1	1
W-158	コンビネーションプライヤ	18	-	-	6	6	6
W-159	ニッパー	18	-	-	6	6	6
W-160	ロングノーズプライヤ	18	-	-	6	6	6
W-161	ワイヤーストリッパープライヤ	18	-	-	6	6	6
W-162	ウォーターポンププライヤ	18	-	-	6	6	6
W-163	タワーペンチ	18	-	-	6	6	6
W-164	半田ごて	18	-	-	6	6	6
W-165	半田ごて(ガンタイプ)	3	-	-	1	1	1
W-166	クリップ付き持ち手はんだ付け補助スタンド	21	-	-	7	7	7
W-167	万能ナイフ	18	-	-	6	6	6
W-168	メジャー	18	-	-	6	6	6
W-169	釘抜きハンマー	18	-	-	6	6	6
W-170	ハンマー	18	-	-	6	6	6
W-171	フィリップス型ドライバーセット	18	-	-	6	6	6
W-172	スタビードライバーセット	18	-	-	6	6	6
W-173	電圧テスター	18	-	-	6	6	6
W-174	安全ゴーグル & イヤーマフ	60	-	-	20	20	20
W-175	工具箱	24	-	-	8	8	8
W-176	多機能パーツ収納箱	12	-	-	4	4	4
W-177	収納キャビネット	12	-	-	4	4	4
W-178	ソケットセット	18	-	-	6	6	6
W-179	コンビネーションレンチセット	18	-	-	6	6	6
W-180	スクリュードライバーセット	18	-	-	6	6	6

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-181	ステップドリルセット	6	-	-	2	2	2
W-182	木工用フラットドリルバイト	6	-	-	2	2	2
W-183	ゴムハンマー	18	-	-	6	6	6
W-184	六角レンチセット	18	-	-	6	6	6
W-185	手のこぎり(金属切断用)	18	-	-	6	6	6
W-186	手のこぎり	18	-	-	6	6	6
W-187	バックソー	18	-	-	6	6	6
W-188	コンビネーションソー	18	-	-	6	6	6
W-189	レンチセット	18	-	-	6	6	6
W-190	グルーガン	18	-	-	6	6	6
W-191	曲尺	18	-	-	6	6	6
W-192	角度計	18	-	-	6	6	6
W-193	やすり	18	-	-	6	6	6
W-194	ハイスプライヤー	18	-	-	6	6	6
W-195	鉋	18	-	-	6	6	6
W-196	ハンドリベッター・リベット(アルミ)セット	6	-	-	2	2	2
W-197	角のみセット	18	-	-	6	6	6
W-198	F型クランプ	30	-	-	10	10	10
W-199	金切バサミ	18	-	-	6	6	6
W-200	水平器(マグネット付)	18	-	-	6	6	6
W-201	卓上万力	6	-	-	2	2	2
W-202	万力	18	-	-	6	6	6
W-203	ステープルガン	18	-	-	6	6	6
W-204	ドリルバイトセット	18	-	-	6	6	6
W-205	ホールソーセット	6	-	-	2	2	2
W-206	電子キット	30	-	-	10	10	10
W-207	FIRST LEGO LEAGUE システム	3	-	-	1	1	1
W-208	アルドゥイーノウノ	20	-	-	10	-	10
W-209	ステッピングモータードライブ	20	-	-	10	-	10
W-210	Bluetooth モジュール	20	-	-	10	-	10
W-211	ジャンパーケーブル(アルドゥイーノ/ブレッドボード用)	18	-	-	6	6	6
W-212	スマートロボットカーシャーシキット	20	-	-	10	-	10



番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-213	手持ち式デジタルマルチメーター	30	-	-	10	10	10
W-214	試験盤	45	-	-	15	15	15
W-215	フラットヘッド木ネジセット(Aタイプ)	3	-	-	1	1	1
W-216	フラットヘッド木ネジセット(Bタイプ)	3	-	-	1	1	1
W-217	フラットヘッド木ネジセット(Cタイプ)	3	-	-	1	1	1
W-218	パネル用ピン(鉄製)(Aタイプ)	3	-	-	1	1	1
W-219	パネル用ピン(鉄製)(Bタイプ)	3	-	-	1	1	1
W-220	パネル用ピン(鉄製)(Cタイプ)	3	-	-	1	1	1
W-221	フィリップスパンヘッドスチールメタルねじ (Aタイプ)	3	-	-	1	1	1
W-222	フィリップスパンヘッドスチールメタルねじ (Bタイプ)	3	-	-	1	1	1
W-223	フィリップスパンヘッドスチールメタルねじ (Cタイプ)	3	-	-	1	1	1
W-224	ケミカルキャパシタ	600	-	-	200	200	200
W-225	セラミックキャパシタ	600	-	-	200	200	200
W-226	抵抗器	750	-	-	250	250	250
W-227	可変抵抗器	600	-	-	200	200	200
W-228	バリスタ(VDR)	150	-	-	50	50	50
W-229	フォトレジスタ (LDR)	150	-	-	50	50	50
W-230	ダイオード	480	-	-	160	160	160
W-231	発光ダイオード	1500	-	-	500	500	500
W-232	定電圧ダイオード	600	-	-	200	200	200
W-233	ヒューズボックス	300	-	-	100	100	100
W-234	サーミスタ	300	-	-	100	100	100
W-235	糸はんだワイヤーリール	150	-	-	50	50	50
W-236	スイッチ (Aタイプ)	60	-	-	20	20	20
W-237	スイッチ (Bタイプ)	60	-	-	20	20	20
W-238	スイッチ (Cタイプ)	60	-	-	20	20	20
W-239	スイッチ (Dタイプ)	60	-	-	20	20	20
W-240	スイッチ (Eタイプ)	60	-	-	20	20	20
W-241	IC タイマー	150	-	-	50	50	50
W-242	トランジスタ	600	-	-	200	200	200
W-243	IC TTL	375	-	-	125	125	125
W-244	IC LM386	30	-	-	10	10	10

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-245	IC LM324	30	-	-	10	10	10
W-246	IC LM311	30	-	-	10	10	10
W-247	IC LM35	30	-	-	10	10	10
W-248	LM 7805, 7812	30	-	-	10	10	10
W-249	TDI 2003	30	-	-	10	10	10
W-250	IR-Rx	60	-	-	20	20	20
W-251	IR-Tx	60	-	-	20	20	20
W-252	7 セグメント	20	-	-	10	-	10
W-253	継電器 (A タイプ)	60	-	-	20	20	20
W-254	継電器 (B タイプ)	60	-	-	20	20	20
W-255	継電器 (C タイプ)	60	-	-	20	20	20
W-256	継電器 (D タイプ)	60	-	-	20	20	20
W-257	継電器 (E タイプ)	30	-	-	10	10	10
W-258	マイクロスイッチ(レバー付)	36	-	-	12	12	12
W-259	遮断器	30	-	-	10	10	10
W-260	分電盤	3	-	-	1	1	1
W-261	スイッチ	36	-	-	12	12	12
W-262	スピーカー	150	-	-	50	50	50
W-263	マイクروفोन	150	-	-	50	50	50
W-264	DC モーター	150	-	-	50	50	50
W-265	コンセント	30	-	-	10	10	10
W-266	オプトアイソレータ	100	-	-	50	-	50
W-267	デジタルオシロスコープ	15	-	-	5	5	5
W-268	ステッピングモーター	150	-	-	50	50	50
W-269	コンピューター(デスクトップ)	60	-	-	20	20	20
W-270	コンピューター(ラップトップ)	3	-	-	1	1	1
W-271	レーザープリンター	9	-	-	3	3	3
W-272	インタラクティブ・プロジェクター	3	-	-	1	1	1
【リソースルーム】							
W-273	コンピューター(ラップトップ)	3	1	1	-	1	-
W-274	レーザープリンター	3	1	1	-	1	-
W-275	インタラクティブ・プロジェクター	3	1	1	-	1	-

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-276	教育用玩具セット	3	1	1	-	1	-
W-277	教育用ツールセット	3	1	1	-	1	-
W-278	楽器キット	3	1	1	-	1	-
<b>【幼稚園】</b>							
W-279	丸型テーブル	10	-	5	-	5	-
W-280	椅子	60	-	30	-	30	-
W-281	木製棚 (A タイプ)	4	-	2	-	2	-
W-282	木製棚 (B タイプ)	2	-	1	-	1	-
W-283	スポンジマットレス	2	-	1	-	1	-
W-284	パラシュート	10	-	5	-	5	-
W-285	ジャンピングサック	4	-	2	-	2	-
W-286	寝室セット	2	-	1	-	1	-
W-287	診療コーナーセット	2	-	1	-	1	-
W-288	キッチンコーナー(オーブン)	2	-	1	-	1	-
W-289	キッチンコーナー(冷蔵庫)	2	-	1	-	1	-
W-290	キッチンコーナー(流し台)	2	-	1	-	1	-
W-291	キッチンコーナー(洗浄機)	2	-	1	-	1	-
W-292	キッチンコーナー(キッチン戸棚)	2	-	1	-	1	-
W-293	カラーパズル	2	-	1	-	1	-
W-294	パズルセット(前と後)	2	-	1	-	1	-
W-295	パズルセット(物と陰)	2	-	1	-	1	-
W-296	パズルセット(仕事と道具)	2	-	1	-	1	-
W-297	パズルセット(関連性)	2	-	1	-	1	-
W-298	パズルセット(反対)	2	-	1	-	1	-
W-299	画板セット	2	-	1	-	1	-
W-300	ビーズボックス	2	-	1	-	1	-
W-301	楽器キット	2	-	1	-	1	-
W-302	幾何学形積み木セット	2	-	1	-	1	-
W-303	大型ビーズ玩具	2	-	1	-	1	-
W-304	コンピューター(ラップトップ)	2	-	1	-	1	-
W-305	インタラクティブ・プロジェクター	2	-	1	-	1	-
W-306	レーザープリンター	2	-	1	-	1	-

番号	機材名	数量					
		数量 合計	W-1	W-2	W-3	W-4	W-5
W-307	ブランコ(2人用)	2	-	1	-	1	-
W-308	シーソー	2	-	1	-	1	-
W-309	滑り台	2	-	1	-	1	-
<b>【その他(ネットワーク機器)】</b>							
W-310	ファイヤーウォール	5	1	1	1	1	1
W-311	アクセスポイント	40	8	8	8	8	8

**【ガザ地区 機材リスト】**

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
<b>【普通教室】</b>							
G-1	コンピューター(ラップトップ)	43	8	9	9	9	8
G-2	インタラクティブ・プロジェクター	12	-	4	4	4	-
<b>【図書室】</b>							
G-3	コンピューター(ラップトップ)	5	1	1	1	1	1
G-4	インタラクティブ・プロジェクター	5	1	1	1	1	1
<b>【事務部門(校長室)】</b>							
G-5	コンピューター(ラップトップ)	5	1	1	1	1	1
G-6	レーザープリンター	5	1	1	1	1	1
<b>【事務部門(教員室)】</b>							
G-7	コンピューター(ラップトップ)	10	2	2	2	2	2
<b>【事務部門(秘書室)】</b>							
G-8	コンピューター(ラップトップ)	5	1	1	1	1	1
G-9	レーザープリンター	5	1	1	1	1	1
<b>【事務部門(資料庫・コピー室)】</b>							
G-10	コピー機	5	1	1	1	1	1
<b>【多目的ホール】</b>							
G-11	LCDプロジェクター	5	1	1	1	1	1
G-12	コンピューター(ラップトップ)	5	1	1	1	1	1
<b>【理科実験室】</b>							
G-13	コンピューター(ラップトップ)	2	1	-	-	-	1

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-14	カラーレーザープリンター	2	1	-	-	-	1
G-15	LCDプロジェクター	2	1	-	-	-	1
G-16	ボール・リングセット	30	6	6	6	6	6
G-17	棒磁石	30	6	6	6	6	6
G-18	真空ポンプセット	5	1	1	1	1	1
G-19	方位磁石	30	6	6	6	6	6
G-20	バイメタル棒	15	3	3	3	3	3
G-21	手動発電機	15	3	3	3	3	3
G-22	エポナイト棒	15	3	3	3	3	3
G-23	ガラス棒	15	3	3	3	3	3
G-24	電子天秤	30	6	6	6	6	6
G-25	検電器	30	6	6	6	6	6
G-26	熱伝導装置	30	6	6	6	6	6
G-27	高圧電源装置	2	1	-	-	-	1
G-28	U型磁石	30	6	6	6	6	6
G-29	レンズセット	15	3	3	3	3	3
G-30	直線式力学台車	5	1	1	1	1	1
G-31	低圧電源装置	30	6	6	6	6	6
G-32	磁力観察箱	15	3	3	3	3	3
G-33	マイクロメーター	30	6	6	6	6	6
G-34	鏡	30	6	6	6	6	6
G-35	波実験装置	5	1	1	1	1	1
G-36	電気スパーク装置	5	1	1	1	1	1
G-37	分銅セット	15	3	3	3	3	3
G-38	バネ秤セット	15	3	3	3	3	3
G-39	自動落下実験装置	5	1	1	1	1	1
G-40	太陽—地球—月モデル	5	1	1	1	1	1
G-41	共鳴箱付音叉	15	3	3	3	3	3
G-42	音叉	15	3	3	3	3	3
G-43	ヴァンデグラフ起電器	5	1	1	1	1	1
G-44	副尺付ノギス	30	6	6	6	6	6
G-45	クランプ(万能タイプ)	15	3	3	3	3	3

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-46	ダブル45クランプ	30	6	6	6	6	6
G-47	岩石・鉱物セット	5	1	1	1	1	1
G-48	支持リング	30	6	6	6	6	6
G-49	工具セット	5	1	1	1	1	1
G-50	体積変位測定容器	30	6	6	6	6	6
G-51	物の重さ比較素材セット	30	6	6	6	6	6
G-52	振り子セット(シンプル)	30	6	6	6	6	6
G-53	線膨張実験器	30	6	6	6	6	6
G-54	電気式熱量計	15	3	3	3	3	3
G-55	変圧器(取り外し可能)	2	1	-	-	-	1
G-56	力学実験台(滑車実験)	5	1	1	1	1	1
G-57	レーザージオプティックセット	15	3	3	3	3	3
G-58	フックの法則実験装置	30	6	6	6	6	6
G-59	ホープの装置(水の密度)	5	1	1	1	1	1
G-60	可動コイル検流計(マイクロアンペアメーター)	30	6	6	6	6	6
G-61	デジタルマルチメーター	30	6	6	6	6	6
G-62	光学台	5	1	1	1	1	1
G-63	ソーラー発電装置	30	6	6	6	6	6
G-64	元素周期律表	5	1	1	1	1	1
G-65	レトルトスタンド	30	6	6	6	6	6
G-66	三脚	30	6	6	6	6	6
G-67	基礎電気・電子キット	12	6	-	-	-	6
G-68	光屈折実験装置	30	6	6	6	6	6
G-69	てこ実験セット	15	3	3	3	3	3
G-70	並列電流間エネルギー説明装置	2	1	-	-	-	1
G-71	磁界導体エネルギー説明装置	6	3	-	-	-	3
G-72	誘導コイル	12	6	-	-	-	6
G-73	セラミック金網	30	6	6	6	6	6
G-74	洗瓶	30	6	6	6	6	6
G-75	シンプル回路キット	18	-	6	6	6	-
G-76	デジタル計測計	15	3	3	3	3	3
G-77	2D 磁場実験装置	30	6	6	6	6	6

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-78	消火器	5	1	1	1	1	1
G-79	ホフマン電量計	15	3	3	3	3	3
G-80	液体比重計	30	6	6	6	6	6
G-81	湿度計（湿乾）	15	3	3	3	3	3
G-82	ガスバーナー	30	6	6	6	6	6
G-83	気体のスペクトル	2	1	-	-	-	1
G-84	原子模型	15	3	3	3	3	3
G-85	ビーカー	15	3	3	3	3	3
G-86	ビュレット	15	3	3	3	3	3
G-87	ビュレットクランプ	15	3	3	3	3	3
G-88	蒸留装置	15	3	3	3	3	3
G-89	三角フラスコ	15	3	3	3	3	3
G-90	メスシリンダー	15	3	3	3	3	3
G-91	ピペット	15	3	3	3	3	3
G-92	ピペットフィルター	15	3	3	3	3	3
G-93	ポータブルpHメーター	30	6	6	6	6	6
G-94	試験管	5	1	1	1	1	1
G-95	試験管ラック	30	6	6	6	6	6
G-96	温度計	15	3	3	3	3	3
G-97	解剖セット	5	1	1	1	1	1
G-98	ヒト脳模型	5	1	1	1	1	1
G-99	ヒト循環器チャート	5	1	1	1	1	1
G-100	ヒト消化器チャート	5	1	1	1	1	1
G-101	ヒト耳模型	5	1	1	1	1	1
G-102	ヒト目模型	5	1	1	1	1	1
G-103	ヒト心臓模型	5	1	1	1	1	1
G-104	ヒト腎臓模型	5	1	1	1	1	1
G-105	ヒト筋肉チャート	5	1	1	1	1	1
G-106	ヒト神経チャート	5	1	1	1	1	1
G-107	ヒト呼吸器チャート	5	1	1	1	1	1
G-108	ヒト骨格模型	5	1	1	1	1	1
G-109	ヒト胴体模型	5	1	1	1	1	1

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-110	ヒト泌尿器チャート	5	1	1	1	1	1
G-111	単眼顕微鏡	30	6	6	6	6	6
G-112	実体顕微鏡	15	3	3	3	3	3
G-113	デジタル血圧計	15	3	3	3	3	3
G-114	ヒト歯模型	5	1	1	1	1	1
G-115	顕微鏡用スライドグラスセット	15	3	3	3	3	3
G-116	DNA模型	15	3	3	3	3	3
G-117	るつぼ(蓋付)	15	3	3	3	3	3
G-118	攪拌棒	5	1	1	1	1	1
G-119	手持ち拡大鏡	30	6	6	6	6	6
G-120	安全メガネ	200	40	40	40	40	40
G-121	スライドグラス(プレーン)	15	3	3	3	3	3
G-122	スライドグラスカバースリップ	30	6	6	6	6	6
G-123	解剖皿	15	3	3	3	3	3
G-124	メートル尺・メートル定規	15	3	3	3	3	3
G-125	斜面実験装置	15	3	3	3	3	3
G-126	バナナプラグ探針リード線(スタッカブル)	5	1	1	1	1	1
G-127	ワニ口クリップ付リード線(中サイズ、赤黒)	5	1	1	1	1	1
G-128	丸型炭素電極	5	1	1	1	1	1
G-129	プリズムガラス(正三角形タイプ)	30	6	6	6	6	6
G-130	プリズムガラス(直角タイプ)	30	6	6	6	6	6
G-131	金属バネ	15	3	3	3	3	3
G-132	ピペットポンプ	30	6	6	6	6	6
G-133	アルコールランプ	30	6	6	6	6	6
G-134	圧力実験計	15	3	3	3	3	3
G-135	U型チューブ	30	6	6	6	6	6
G-136	ガラス漏斗	30	6	6	6	6	6
G-137	ガラス管	5	1	1	1	1	1
G-138	試験管ばさみ	30	6	6	6	6	6
G-139	デジタルカメラ接眼レンズ	30	6	6	6	6	6
G-140	マルチ実験機器セット	2	1	-	-	-	1
【テクノロジーラボ】							



番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-141	ハンマードリル	10	2	2	2	2	2
G-142	アングルグラインダー	5	1	1	1	1	1
G-143	細帯鋸	10	2	2	2	2	2
G-144	糸鋸	10	2	2	2	2	2
G-145	ドリル/ドライバー	30	6	6	6	6	6
G-146	丸鋸	5	1	1	1	1	1
G-147	卓上万能のこぎり	5	1	1	1	1	1
G-148	ルーター	5	1	1	1	1	1
G-149	ベルト式研磨機	5	1	1	1	1	1
G-150	フィニッシングサンダー	5	1	1	1	1	1
G-151	ボール盤	5	1	1	1	1	1
G-152	卓上研磨切断のこぎり	5	1	1	1	1	1
G-153	ダブルグラインダー	5	1	1	1	1	1
G-154	小型木工旋盤	5	1	1	1	1	1
G-155	AC & DC 電源装置	30	6	6	6	6	6
G-156	電気溶接機	5	1	1	1	1	1
G-157	コンビネーションプライヤ	30	6	6	6	6	6
G-158	ニッパー	30	6	6	6	6	6
G-159	ロングノーズプライヤ	30	6	6	6	6	6
G-160	ワイヤーストリッパープライヤ	30	6	6	6	6	6
G-161	ウォーターポンププライヤ	30	6	6	6	6	6
G-162	タワープンチ	30	6	6	6	6	6
G-163	半田ごて	30	6	6	6	6	6
G-164	半田ごて(ガンタイプ)	5	1	1	1	1	1
G-165	クリップ付き持ち手はんだ付け補助スタンド	35	7	7	7	7	7
G-166	万能ナイフ	30	6	6	6	6	6
G-167	メジャー	30	6	6	6	6	6
G-168	釘抜きハンマー	30	6	6	6	6	6
G-169	ハンマー	30	6	6	6	6	6
G-170	フィリップス型ドライバーセット	30	6	6	6	6	6
G-171	スタビードライバーセット	30	6	6	6	6	6
G-172	電圧テスター	30	6	6	6	6	6

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-173	安全ゴーグル & イヤーマフ	100	20	20	20	20	20
G-174	工具箱	40	8	8	8	8	8
G-175	多機能パーツ収納箱	20	4	4	4	4	4
G-176	収納キャビネット	20	4	4	4	4	4
G-177	ソケットセット	30	6	6	6	6	6
G-178	コンビネーションレンチセット	30	6	6	6	6	6
G-179	スクリュードライバーセット	30	6	6	6	6	6
G-180	ステップドリルセット	10	2	2	2	2	2
G-181	木工用フラットドリルバイト	10	2	2	2	2	2
G-182	ゴムハンマー	30	6	6	6	6	6
G-183	六角レンチセット	30	6	6	6	6	6
G-184	手のこぎり(金属切断用)	30	6	6	6	6	6
G-185	手のこぎり	30	6	6	6	6	6
G-186	バックソー	30	6	6	6	6	6
G-187	コンビネーションソー	30	6	6	6	6	6
G-188	レンチセット	30	6	6	6	6	6
G-189	グルーガン	30	6	6	6	6	6
G-190	曲尺	30	6	6	6	6	6
G-191	角度計	30	6	6	6	6	6
G-192	やすり	30	6	6	6	6	6
G-193	バイスプライヤー	30	6	6	6	6	6
G-194	鉋	30	6	6	6	6	6
G-195	ハンドリベッター・リベット(アルミ)セット	10	2	2	2	2	2
G-196	角のみセット	30	6	6	6	6	6
G-197	F型クランプ	50	10	10	10	10	10
G-198	金切バサミ	30	6	6	6	6	6
G-199	水平器(マグネット付)	30	6	6	6	6	6
G-200	卓上万力	10	2	2	2	2	2
G-201	万力	30	6	6	6	6	6
G-202	ステーブルガン	30	6	6	6	6	6
G-203	ドリルバイトセット	30	6	6	6	6	6
G-204	ホールソーセット	10	2	2	2	2	2

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-205	電子キット	50	10	10	10	10	10
G-206	FIRST LEGO LEAGUE システム	5	1	1	1	1	1
G-207	アルドゥイーノウノ	20	10	-	-	-	10
G-208	ステッピングモータードライブ	20	10	-	-	-	10
G-209	Bluetooth モジュール	20	10	-	-	-	10
G-210	ジャンパーケーブル(アルドゥイーノブレッドボード用)	30	6	6	6	6	6
G-211	スマートロボットカーシャーシキット	20	10	-	-	-	10
G-212	手持ち式デジタルマルチメーター	50	10	10	10	10	10
G-213	試験盤	75	15	15	15	15	15
G-214	フラットヘッド木ネジセット(A タイプ)	5	1	1	1	1	1
G-215	フラットヘッド木ネジセット(B タイプ)	5	1	1	1	1	1
G-216	フラットヘッド木ネジセット(C タイプ)	5	1	1	1	1	1
G-217	パネル用ピン(鉄製)(A タイプ)	5	1	1	1	1	1
G-218	パネル用ピン(鉄製)(B タイプ)	5	1	1	1	1	1
G-219	パネル用ピン(鉄製)(C タイプ)	5	1	1	1	1	1
G-220	フィリップスパンヘッドスチールメタルねじ (A タイプ)	5	1	1	1	1	1
G-221	フィリップスパンヘッドスチールメタルねじ (B タイプ)	5	1	1	1	1	1
G-222	フィリップスパンヘッドスチールメタルねじ (C タイプ)	5	1	1	1	1	1
G-223	ケミカルキャパシタ	1000	200	200	200	200	200
G-224	セラミックキャパシタ	1000	200	200	200	200	200
G-225	抵抗器	1250	250	250	250	250	250
G-226	可変抵抗器	1000	200	200	200	200	200
G-227	バリスタ(VDR)	250	50	50	50	50	50
G-228	フォトレジスタ (LDR)	250	50	50	50	50	50
G-229	ダイオード	800	160	160	160	160	160
G-230	発光ダイオード	2500	500	500	500	500	500
G-231	定電圧ダイオード	1000	200	200	200	200	200
G-232	ヒューズボックス	500	100	100	100	100	100
G-233	サーミスタ	500	100	100	100	100	100
G-234	糸はんだワイヤーリール	250	50	50	50	50	50
G-235	スイッチ (A タイプ)	100	20	20	20	20	20
G-236	スイッチ (B タイプ)	100	20	20	20	20	20

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-237	スイッチ (C タイプ)	100	20	20	20	20	20
G-238	スイッチ (D タイプ)	100	20	20	20	20	20
G-239	スイッチ (E タイプ)	100	20	20	20	20	20
G-240	IC タイマー	250	50	50	50	50	50
G-241	トランジスタ	1000	200	200	200	200	200
G-242	IC TTL	625	125	125	125	125	125
G-243	IC LM386	50	10	10	10	10	10
G-244	IC LM324	50	10	10	10	10	10
G-245	IC LM311	50	10	10	10	10	10
G-246	IC LM35	50	10	10	10	10	10
G-247	LM 7805, 7812	50	10	10	10	10	10
G-248	TDI 2003	50	10	10	10	10	10
G-249	IR-Rx	100	20	20	20	20	20
G-250	IR-Tx	100	20	20	20	20	20
G-251	7 セグメント	20	10	-	-	-	10
G-252	継電器 (A タイプ)	100	20	20	20	20	20
G-253	継電器 (B タイプ)	100	20	20	20	20	20
G-254	継電器 (C タイプ)	100	20	20	20	20	20
G-255	継電器 (D タイプ)	100	20	20	20	20	20
G-256	継電器 (E タイプ)	50	10	10	10	10	10
G-257	マイクロスイッチ(レバー付)	60	12	12	12	12	12
G-258	遮断器	50	10	10	10	10	10
G-259	分電盤	5	1	1	1	1	1
G-260	スイッチ	60	12	12	12	12	12
G-261	スピーカー	250	50	50	50	50	50
G-262	マイクロフォン	250	50	50	50	50	50
G-263	DC モーター	250	50	50	50	50	50
G-264	コンセント	50	10	10	10	10	10
G-265	オプトアイソレータ	100	50	-	-	-	50
G-266	デジタルオシロスコープ	25	5	5	5	5	5
G-267	ステッピングモーター	250	50	50	50	50	50
G-268	コンピューター(ラップトップ)	105	21	21	21	21	21

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-269	レーザープリンター	10	2	2	2	2	2
G-270	インタラクティブ・プロジェクター	5	1	1	1	1	1
<b>【リソースルーム】</b>							
G-271	コンピューター(ラップトップ)	3	-	1	1	1	-
G-272	レーザープリンター	3	-	1	1	1	-
G-273	教育用玩具セット	3	-	1	1	1	-
G-274	教育用ツールセット	3	-	1	1	1	-
G-275	楽器キット	3	-	1	1	1	-
<b>【幼稚園】</b>							
G-276	丸型テーブル	15	-	5	5	5	-
G-277	椅子	90	-	30	30	30	-
G-278	木製棚 (A タイプ)	6	-	2	2	2	-
G-279	木製棚 (B タイプ)	3	-	1	1	1	-
G-280	スポンジマットレス	3	-	1	1	1	-
G-281	パラシュート	15	-	5	5	5	-
G-282	ジャンピングサック	6	-	2	2	2	-
G-283	寝室セット	3	-	1	1	1	-
G-284	診療コーナーセット	3	-	1	1	1	-
G-285	キッチンコーナー(オープン)	3	-	1	1	1	-
G-286	キッチンコーナー(冷蔵庫)	3	-	1	1	1	-
G-287	キッチンコーナー(流し台)	3	-	1	1	1	-
G-288	キッチンコーナー(洗浄機)	3	-	1	1	1	-
G-289	キッチンコーナー(キッチン戸棚)	3	-	1	1	1	-
G-290	カラーパズル	3	-	1	1	1	-
G-291	パズルセット(前と後)	3	-	1	1	1	-
G-292	パズルセット(物と陰)	3	-	1	1	1	-
G-293	パズルセット(仕事と道具)	3	-	1	1	1	-
G-294	パズルセット(関連性)	3	-	1	1	1	-
G-295	パズルセット(反対)	3	-	1	1	1	-
G-296	画板セット	3	-	1	1	1	-
G-297	ビーズボックス	3	-	1	1	1	-
G-298	楽器キット	3	-	1	1	1	-

番号	機材名	数量					
		数量 合計	G-1	G-3	G-4	G-5	G-6
G-299	幾何学形積み木セット	3	-	1	1	1	-
G-300	大型ビーズ玩具	3	-	1	1	1	-
G-301	コンピューター(ラップトップ)	3	-	1	1	1	-
G-302	レーザープリンター	3	-	1	1	1	-
G-303	ブランコ(2人用)	3	-	1	1	1	-
G-304	シーソー	3	-	1	1	1	-
G-305	滑り台	3	-	1	1	1	-
【その他(ネットワーク機器)】							
G-306	ファイヤーウォール	5	1	1	1	1	1
G-307	アクセスポイント	40	8	8	8	8	8