

KG6 (SOUTH REGION)
ELECTRICAL ASSESSMENT REPORT FOR THE INSTALLATION OF HYBRID PV SYSTEMS

KG DETAILS					EXISTING ELECTRICAL SITUATION								PROPOSED SOLUTIONS						
#	إسم المؤسسة	إسم الروضة	إسم المصميم	Number of Floors	Time Schedule	EDL Connection (Amps)	Subscription Generator (Amps)	Subscription Generator Schedule	Dedicated Generator (KVA)	UPS/ inverter	UPS Capacity	Existing Solar PV	Essential Connected Load	Possibility of installing PV	Location for Batteries	PV Orientation	Structure Type	Notes	OPTION ADOPTED
1	جمعية بيت أطفال الصمود	روضة الصمود	عين الحلوة	3 Floors	7:00-1:30	Yes	10	-	-	-	-	No	Lighting, Fans	Yes	Roof, Storage	South East	Floor Mounted	Pigeons, Rocks, Canopy Structure reinforcement, exact location to be further checked if accessible	OPTION 2 - 5KW
2	جمعية الوحدة الاجتماعية	الوحدة	عين الحلوة	2 Floors	7:30-2:00	Yes	-	-	-	-	-	Yes, 8KW, 4 Batteries 200Ah, 14 Panels	Lighting, Fans	-	-	-	-	Systems already installed, Protection for PV needed	-
3	لمسان كنفاني	لمسان كنفاني	عين الحلوة	3 Floors	7:00-1:30	100A - 3PH	-	-	50 KVA	UPS for Library	2KVA	No	Fluorescent Lighting, Fans, AC, Pumps	Yes	Roof, Staircase	South East	Floor Mounted	Waterproofing to be addressed before installation, Fluorescent Lights to be changed to LED within the Contractor's scope	OPTION 3 - 8KW
4	المدرسة	روضة الهدى المرشد	عين الحلوة	1 Floor	7:00-4:00	Yes	15	(7:00-4:00)	5 KVA	UPS dismantled , needs maintenance	1500W	No	Lighting, Fans	No	GF, Under Stairs	-	-	1 floor KG, Shadows from surrounding buildings and trees	OPTION 2A - 5KW (Batteries Only)
5	الاتحاد العام للمرأة الفلسطينية	روضة الشهيد حدى شمالان	عين الحلوة	1 out of 3 Floors	7:00-1:30	1-2hrs	-	-	60 KVA	-	-	No	Lighting, Fans	Yes	Roof, Staircase	South East	Floor Mounted	APS installed for admin GF	OPTION 3 - 8KW
6	الاتحاد العام للمرأة الفلسطينية	روضة حدى زيدان	المية ونية	2 Floors	7:30-1:30	-	5	(10:00-12:00)	-	-	-	No	Lighting, Fans	Yes	GF, Storage	South East	Floor Mounted	Storage space to be provided for batteries at GF level, Detergent to be relocated far from system	OPTION 2 - 5KW
7	الاتحاد العام للمرأة الفلسطينية	روضة البروج	مخيم الحص	1 Floor + Playground	7:15-1:30	Yes	5	(10:00-1:00)	-	-	-	No	Lighting, Fans	Yes	Roof, Staircase	South East	Floor Mounted	Protection to be provided from neighbours accessibility, Steel protection with mesh to be added by contractor	OPTION 2 - 5KW
8	مؤسسة الوحدة	روضة الوحدة	مخيم الحص	1 Floor	7:30-2:30	Yes	-	-	-	-	-	Yes, 8KW, 4 Batteries 200Ah, 14 Panels	Lighting, Fans, AC (1)	-	-	-	-	Already installed system, protection needed. Daily cleaning due to very near pigeons	-
9	جمعية مساواة	مركز مساواة	مخيم الحص	2 Floors + Playground	7:00-3:00	Yes	5	(10:00-2:00)	-	-	-	No	Lighting, Fans defected, AC defected (2)	Yes	GF, Storage	South	High Structure	Roof area 3x2 m2, protection to be provided for nearby pigeons	OPTION 1 - 3.5KW
10	جمعية الوحدة الاجتماعية	روضة الوحدة الاجتماعية	برج الشمال	2 Floors	7:00-3:00	Yes	-	-	-	-	-	Yes, 8KW, 4 Batteries 200Ah, 14 Panels	Lighting, Fans	-	-	-	-	Battery enclosure to be ventilated, panels orientation west side with less efficiency.	-
11	بيت أطفال الصمود	روضة الصمود	برج الشمال	4 Floors	7:30-3:30	60A	-	-	Yes	Yes	Defected	No	Lighting, Fans, Water Filtration	Yes	Roof, Mezzanine	South	Pitched Roof Mounted	Installation on pitched roof, Steel structure already provided for the 6 PV Panels	OPTION 1 - 3.5KW
12	الجمعية الإنسانية	روضة الطفل الصعيد	برج الشمال	3 Floors	7:30-1:30	Open	10	(6:00-9:00) (1:00-2:00)	-	Yes	3KVA, 2 Batteries	No	Lighting, Fans	No	GF, Storage	-	-	South side not feasible with high surrounding buildings	OPTION 2A - 5KW (Batteries only)
13	التحاد المرأة	روضة الكرامة	برج الشمال	2 Floors	7:30-1:30	3x 15A each	10	-	-	-	-	No	Lighting, fans	Yes	GF Elec Room, Roof Staircase	South	Floor Mounted		OPTION 3 - 8KW
14	المكتبة	المكتبة	برج الشمال	4 Floors (2nd Floor Gym, 3rd Floor Theatre, 4th Floor Hosting)	8:00-5:00	Open	20	(8:00-10:00)	-	Yes	Defected	No	Lighting, Photocopier, Scanner, Fans	Yes	Roof, Staircase	South East	Floor Mounted		OPTION 4 - 10KW
15	الاتحاد العام للمرأة الفلسطينية	روضة بلاطة القاسية	القاسية	2 Floors + Playground	7:00-3:00	-	-	-	-	-	-	No	Lighting, Fans	Yes	Roof Playground, above WCs	South	Pitched Roof Mounted	Access from neighbours roof to install on Zincor roof. Installation of PV with existing waterproofing to be checked	OPTION 2 - 5KW
16	الاتحاد العام للمرأة الفلسطينية	روضة المعشوق	المعشوق	1 Floor	7:30-1:30	10A	10	(7:00-12:00)	-	-	-	No	Lighting, Fans	Yes	Roof, Staircase	South East	Floor Mounted	Location in Rent, Client prefers Off-Grid System installation	OPTION 2A - 5KW (Batteries Only)
17	مؤسسة بيت أطفال الصمود	روضة الصمود	الرشيدة	1 out of 3 Floors	8:00-3:00	Yes	-	-	45KVA	Yes	5KVA, Batteries Defected	No	Lighting, Fans, Laptop, Photocopier	Yes	Roof, Staircase	South	Floor Mounted	Pigeons, Rocks, Net Protection needed. 3Phase Generator expected to stop	OPTION 2 - 5KW
18	مؤسسة لسان كنفاني الثقافية	لمسان كنفاني	الرشيدة	2 Floors	7:00-1:30	Yes	Open	-	-	Yes	For Basement Lighting	No	Lighting, Fans, Laptop, Photocopier	Yes	Classroom Mezzanine	South	Floor Mounted	15m to inverter. Inverter to be installed in Classroom Mezzanine. To verify connection to main panel in admin office	OPTION 2 - 5KW
19	الاتحاد العام للمرأة الفلسطينية	صالح خلف	الرشيدة	1 out of 2 Floors	7:00-1:30	Yes	No	2x5A previous	-	-	-	No	Lighting, Fans, Laptop, Photocopier	Yes	Teachers Room	South East	Floor Mounted	Around 20m to inverter in Teachers room and 15m from inverter to each panel	OPTION 2 - 5KW
20	الجمعية الإنسانية	روضة الإصلاح	الرشيدة	2 Floors	7:00-1:30	Yes	15	-	-	Yes	2KVA, 2 Batteries 200Ah, 5,6hrs 1 Lamp for each class	No	Lighting, Fans, Treatment plant, Booster pump	Yes, Conditional	GF, above WC	South East	Floor Mounted	Roof condition not good, unstable structure. System to be installed after structural repair. Distance to inverter 15m, inverter to panel 15m.	OPTION 2 - 5KW

ALREADY INSTALLED PV