

**HASHEMITE KINGDOM OF JORDAN**  
**ESMP Checklist for the Installation of PV Power Systems at the Water  
Facilities -Water Authority of Jordan (WAJ)**

**JORDAN WATER SECTOR EFFICIENCY PROGRAM**

The ESMP Checklist is composed of four parts:

- A.** General Project and Site Information
- B.** Safeguards Information / Safeguards Screening Findings
- C.** Mitigation Measures & Monitoring Plan
- D.** Monitoring and Reporting

**Part A: General Project and Site Information**

**PROJECT DESCRIPTION:**

The Jordan Water Sector Efficiency Program comprises various components, including the Increased Energy Efficiency and Reduced Energy Supply Costs which, under Component 2: Increased Energy Efficiency and Reduced Energy Supply Costs.

The identified sub-project under Component 2 includes supply and installation of PV systems in 27 sites, of capacities (66-1141) kWp, ground mounted, roof top and wheeled systems (As detailed in Annex 1), and total capacity 16.54 MWp (11.72 MW), The above described activities will take place within existing facilities including pumping stations and wastewater treatment plants, distributed throughout Jordan, that are fully owned by WAJ, where no land acquisition is needed.

The subproject activities will be implemented by the Water Authority of Jordan (WAJ) for the benefit of the three water distribution companies: Aqaba Water (AWC), Miyahuna Water Company, and Yarmouk Water Company (YWC). The project encompasses all necessary supply of material, storage at WAJ /or/supplier facilities, installation of structures, electrical works and testing for verification. This ESMP Checklist will cover all sites under the sub-projects included in Annex 1.

**Environmental and Social Baseline:** Jordan's diverse terrain, spanning 89,342 square kilometers and home to approximately 10 million people, features dramatic variations from the lowest point at the Dead Sea to the highest at Um Addami Mountain. The initiative to install PV System in public water facilities, with the objective to minimize environmental impact, ensuring negligible effects on the biological diversity and cultural heritage sites. The socioeconomic impact of this sub-project is anticipated to align with the overarching goals of the project, which aim to enhance the efficiency and sustainability of Jordan's water systems. Given that over half of Jordan's population is under 25 years old and predominantly urbanized, with 84% living in the northern and central regions, the pressure on urban water systems is significant. The country's population growth, fueled by both natural increase and the influx of refugees, further strains the already limited water resources. The domestic and

industrial sectors consume half of the available water, with agriculture using the remainder. Projections from the National Water Strategy indicate a looming water deficit by 2025 and 2040 if proactive measures are not implemented.

In terms of labor, Jordan's laws generally adhere to the standards set by the International Labor Organization. However, the enforcement of these laws faces challenges due to limited resources for regulatory inspections and cultural sensitivities that hinder the application of explicit contractual terms. This is particularly true for issues such as gender-based violence and sexual harassment, which require sensitive handling and robust mechanisms to ensure the protection of workers' rights and the promotion of a safe and equitable working environment. The project will need to incorporate strategies to address these labor enforcement challenges, ensuring that the installation of energy-efficient equipment proceeds in compliance with both national laws and international labor standards (World Bank requirements).

### **RELEVANT LEGISLATION**

- Local administrative law #22 for the year 2021.
- The Environment Protection Law No. 6 of 2017
- Environmental Classification and Licensing System No. 69 of 2020.
- Renewable Energy Law and Energy Efficiency Law No. 13 of 2012
- Climate Change Regulation No. 79 of 2019.
- Waste Management Framework Law no. 16 for the year 2020
- Hazardous Materials and Waste Management Regulation No. 68 of 2020:
- Labor Law No. 8 for the year 1996 and its amendments.
- Social Security Law No. 1 of 2014 and its amendments.
- Public Health Law No. 47 of 2008.

### **PUBLIC CONSULTATIONS**

Stakeholder Consultation is a fundamental aspect of project planning and implementation. It serves to engage with all parties potentially affected by the project, ensuring their views are considered in decision-making processes. This consultation fosters transparency, inclusivity, and ownership, leading to more sustainable and accepted outcomes.

The Environmental and Social Management Plan (ESMP) checklist is designed to facilitate such consultation process. The proposed consultation process would be a simplified one (for example through small-group sessions, such as focus group meeting per site) and could be conducted following the below proposed streamlined approach:

- **Stakeholder Identification:** Begin by identifying all relevant stakeholders, particularly those who are directly affected by the project. This should include local communities, government authorities, and any other interested parties.
- **Information Distribution:** Provide stakeholders with clear, concise, and accessible information about the project, including its potential site-specific impacts, benefits, and mitigation measures.
- **Consultation Methods:** Conduct small-group sessions to allow for more in-depth discussions and to ensure that individual concerns can be adequately addressed. These could be organized by site or region, as appropriate for the project.
- **Use of Visual Aids:** Employ visual aids and simplified presentation materials to help explain complex technical details of the project, making the information accessible to those without specialized knowledge.

- **Feedback Channels:** Set up easy-to-use channels for stakeholders to submit their feedback, such as suggestion boxes, dedicated email addresses, or online surveys.
- **Documentation:** Maintain detailed records of all consultation activities, including the feedback received and how it has been considered or incorporated into the project planning.
- **Ongoing Engagement:** Provide stakeholders with updates on how their input has been used and continue to engage with them at critical stages throughout the project lifecycle.

A Simplified Template for ***Consultations, & Management of Grievances and Implementation Issues for subproject activities*** is provided in annex 3 for guidance purposes.

## **INSTITUTIONAL CAPACITY BUILDING**

The contractor will provide an induction for all workers on site on Occupational Health and Safety (OHS) and risks and hazards relevant to the site and the activities. The training should cover awareness of understanding the hazards, implementing the job in a safe manner, and proper use of PPE's relevant to the nature of the activities under the subproject.

## **Part B: Safeguards Information**

The sub-project activities are expected to be provide clean energy in operating the water facilities and is expected to reduce emissions. The project includes supply and installation activities of low risk to moderate risk scattered in different (37) locations operated by three water companies in Jordan, the overall risk of the subproject is moderate. On the other hand, the subproject is classified of low risk in accordance with the Jordan Ministry of Environment classification.

The subproject includes activities at (37) sites where PV panels be installed, the incremental environmental and social risks per each of the sub-project sites are mainly of workers health and safety (and compliance with OHS measures) during supply, excavation, installation of the mounting structures on ground or rooftop, and setting the PV cells, in addition to the testing of the system operation.

The risk of PV installation will be limited to installation of solar PV plants that are located at the existing facilities of WAJ within urban and rural areas that have different population density (some sites are located around vacant areas and others within urban settlements) and/or close to public roads. The disturbance of traffic might be during the entrance and existence of vehicles and construction machinery to construction sites. Minor excavation works for foundation of the mounting structures will be required, in addition to land levelling where the generated excavation materials are expected to be limited at each site and shall be safely handled and removed, similarly waste resulting from de-packaging the supplied material should be safely disposed into the facility waste containers low risk of air pollution due the interim operation of the excavation machineries.

Public traffic disturbance and management: e.g. Transportation of PV panels, materials, tools, and workers, the disturbance of traffic might be during the entrance and exist of vehicles and construction machineries to construction sites.

Labor and working conditions related risks could include OHS risks, workers' grievance mechanism, child labor, and SEA/SH concerns.

Hazardous waste generation is expected to be incidental due to damaged solar PV panels during construction or operation, in addition to minor leaks of oil from construction machinery, the ESMP advised on measures for safe handling, cleaning, storage, and disposal to designated sites shall be implemented.

The E&S screening has shown that activities will be implemented in operational plants, therefore, there would be low risk to habitat fragmentation or ecosystem services-related impacts expected due to the relatively small land required to build these PV systems inside the public facilities. Some sites include planted trees, where the Facility operator shall be guiding the location for replanting those or new trees, the no. of replanted trees is validated by the ESSD.

E&S Screening also showed that none of the water facilities sites are located in historical flood paths, have encountered flashfloods, or that the PV system is expected to encounter such risk considering the designated location for the installation of PV system within the boundaries of the facility.

## Part C: E&S Mitigation and Monitoring Measures for the installation of the PV systems in the (37) water facilities

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
<b>Construction Phase</b>							
<b>Physical Environment</b>							
<b>Air Pollution due to dust generation and emissions resulting machinery</b>	Low	Implement dust control measures, such as watering access roads/routes and construction areas, as needed. Ensure that excavated materials are covered during transport off-site to eliminate dust dispersion.  Use of machinery and vehicles that are in good condition. Switch off vehicles and machinery when not in use.	Visual inspection at site	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
<b>Noise Level</b>	Low	Obtain a work permit from relevant municipality which defines allowed working hours during the day if the plant located in residential areas	Municipal work permit	Once prior commencement of installation activities	Contractor	WCs / WAJ/ Consultant	WAJ
		Avoid work at night as much as applicable if the plant is located in residential areas or close to hospitals, and to obtain a work permit from relevant municipality for night work	- Work permit form - Municipal Approval	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
		Maintain machinery and vehicles not in use in off mood	Visual check during regular inspection	Randomly during daily	Contractor	WCs / WAJ/ Consultant	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
				check			
<b>Soil and Groundwater Conservation</b>	Low	Maintain proper housekeeping onsite Ensure immediate cleaning of any spills and remediation of contaminated areas.	Visual check during regular inspection	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
<b>Waste Management</b>	Low to Moderate	Coordination with relevant municipalities for disposal of excavated material and other non-hazardous construction waste	Waste disposal log receipt from official landfill	Randomly during daily inspection	Contractor	WCs / WAJ/ Consultant	WAJ
		Coordination with MoEnv for disposal of hazardous waste including incidental damage of solar PV panels	Hazardous waste log at monthly progress report and communication evidence with MoEnv (Letter, disposal manifest)	Monthly At the end of the subproject	Contractor	WCs / WAJ/ Consultant	WAJ MoEnv
		Store waste in designated, secure areas to prevent it from spreading, contaminating the site. Ensure to have proper HAZMAT area at each site for temporary storage of hazardous material including damaged solar PV panels.	Visual check during regular inspection	Daily	Contractor	WCs / WAJ/ Consultant	WAJ/ MoEnv
		Store hazardous material at site according to condition required by relevant MSDS	Visual inspection for MSDS at site	Monthly	Contractor	WCs / WAJ/ Consultant	WAJ/ MoEnv

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		Maintain proper housekeeping at work location on regular bases	Visual inspection	daily	Contractor	WCs / WAJ/ Consultant	WAJ/ MoEnv
<b>Natural Habitats and Biodiversity</b>							
<b>Removal of trees and vegetation covers</b>	Low	Where applicable: avoid trees and existing vegetation.  If tree removal is unavoidable, relocate trees to suitable new locations within the facility. Ensure proper preparation, transplanting, and aftercare to maximize survival rates. or replant native species in nearby areas to compensate for the loss.	Existing trees or vegetation covers are avoided. Trees relocated within the facility boundary or elsewhere. replanting of new trees within the facility.	Prior commencement of installation activities	Contractor	WCs / WAJ/ Consultant	WAJ
<b>Social and Socioeconomic</b>							
<b>Traffic Management</b>	Low	Ensure proper physical isolation of the working where the PV system will be installed from the facility operators and workers.  Ensure site management procedures are implemented during vehicles and machinery movement within the site including separate vehicle paths from pedestrian areas, designate specific parking areas for vehicles and machinery to avoid congestion, implement access control	Visual inspection for Physical barriers or fencing installed at site  Visual inspection	Daily	Contractor	WCs / WAJ/ Consultant	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		measures to regulate the entry and exit of vehicles and machinery)					
<b>Community Health &amp; Safety</b>	Low	To isolate plant area (fencing) from the surroundings and to limit construction activities within the boundary of the facility land. Ensure site access management procedures are implemented during vehicles and machinery entrance and exit of the site. This is especially important if the site is located near public roads.	Visual inspection	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
		Display clear and visible information and warning signs to prohibit public access to site (including children under any circumstances)	Visual inspection	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
		SEA/SH: Low risk - Signing of Code of Conduct by all workers	Site inspection to verify Code of Conduct is signed by all project workers  Grievances received	Weekly	Contractor	WCs / WAJ/ Consultant	WAJ
		Implement and install Road Safety measures around the station and near the entrance, including speed pumps, pedestrian crosswalk, cautionary signage,	Visual verification	After contract signing and randomly during daily	Contractor	WCs / WAJ/ Consultant	WAJ



ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		sidewalks, and curbstones as needed		visits			
<b>Disturbance of utilities services (electricity, water, communication)</b>	Low	<p>Prior to commencement of works, engage and coordinate with utility service providers to obtain reliable information regarding the installed underground services at construction site and the surroundings, and to inform them about the planned activities.</p> <p>Ongoing consultation and coordination through project implementation as needed</p>	Records of communication made and data obtained	Prior commencement of installation activities	Contractor/WCs	WAs / WAs / Consultant	WAs
<b>Workers Health and Safety</b>	Moderate	<p>The contractor should have HSE procedure plan which should include measures to address the OHS Hazard risk, following the assessment and include at minimum safety measures for the potential safety risks, and provide Emergency Preparedness and response actions:</p> <ul style="list-style-type: none"> <li>-Work Permit</li> <li>- Lifting Operations Safety</li> <li>- Electrical Works Safety</li> <li>-Welding work safety</li> <li>-Work at Height Safety</li> <li>-Work including foundation excavation.</li> </ul>	<p>Daily Inspection All risks are identified in the HSE procedures</p> <p>OHS procedures are available prior commencing the works</p>	Prior and during of installation activities	Contractor	WAs / WAs / Consultant	WAs

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		<ul style="list-style-type: none"> <li>- Hot Work Safety</li> <li>- Night Work Safety</li> <li>- Manual Handling Safety</li> <li>- Extreme Weather Conditions Safet</li> </ul>					
		Contractor shall assign qualified OHS officer per each Water Company (WC) and ensure their availability at sites during installation.				WCs / WAJ/ Consultant	
		To develop work method statements) for safe construction works according to applicable OHS procedures	Method statements prepared	Prior commencement of installation activities	Contractor	WCs / WAJ/ Consultant	MWI
		To conduct TBT prior work commencement on daily basis	TBT records at site	Randomly during daily inspection	Contractor	WCs / WAJ/ Consultant	MWI
		To isolate excavation and work at height platforms with fall protection barriers	Visual inspection	Randomly during daily inspection	Contractor	WCs / WAJ/ Consultant	MWI
		Provide first aid box and ensure emergency contacts including civil defense contact details are deployed to all workers onsite	<ul style="list-style-type: none"> <li>- First aid kit at site</li> <li>- Emergency contact details deployed at site</li> </ul>	Randomly during daily inspection	Contractor	WCs / WAJ/ Consultant	MWI
		To display safety warning and information signs at site	Visual inspection	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
		Provide workers with appropriate PPEs	Workers are using PPEs	Daily	Contractor	WCs / WAJ/ Consultant	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		(Where applicable) Implementing safety measures to reduce the risk associated to COVID-19 health impacts on workers and employees,	Adherence to guidelines No. (9) & (12) issued by the Ministry of Labor for COVID-19	Daily	Contractor	WCs / WAJ/ Consultant	WAJ
<b>Labor welfare and working conditions</b>	Moderate	Apply labor management measures of Labor Management Procedures (LMP) covering the following: <ul style="list-style-type: none"> <li>- Occupational Health and Safety (OHS)</li> <li>- Terms of Contracts and Working Conditions</li> <li>- Grievance Mechanism</li> <li>- Non-Discrimination and Equal Opportunity</li> <li>- Contractor Management</li> <li>- Monitoring and Reporting</li> </ul>	Records of measures applied like induction log, recruitment policy, contracts templates etc, and workers grievances log	Ongoing during construction phase	Contractor	WCs / WAJ/ Consultant	WAJ
		Conduct an awareness induction for labor upon recruitment. The induction session should cover, but not limited to the following key areas: <ul style="list-style-type: none"> <li>- Terms and conditions of work</li> <li>- OHS</li> <li>- Workers' Grievance Mechanism (GM)</li> <li>- Code of Conduct (CoC)</li> </ul>	Awareness attendees log	Prior to commencement of works and randomly on monthly basis	Contractor	WCs / WAJ/ Consultant	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		Child labor: Is completely prohibited under the age of 18 years - Site Log of all workers - "Age Verification Procedure" for workers	Verification of the "site log" of all workers with age verification records	WAJ/WCOs/ Consultant	Contractor	WCs / WAJ/ Consultant	WAJ
		Provide workers GM and communicate and display contacts to receive labor complaints according to workers GM.	GM records and GM contacts displayed at site	Prior commencement of work and randomly on monthly basis	Contractor	WCs / WAJ/ Consultant	WAJ
		Provide sufficient amounts of drinking water at work locations during hot weather conditions.	Visual inspection Supplier monthly drinking water test results	Randomly during daily inspection and during monthly audit	Contractor	WCs / WAJ/ Consultant	WAJ
		Provide sufficient restrooms (and resting areas) at site either mobile or at nearby subproject offices	Mobilization Plan and Visual inspection	Randomly during daily inspection	Contractor	WCs / WAJ/ Consultant	WAJ
		Provide induction regarding HSE procedure and OHS measures on site	Awareness attendees log	Before start of work and conduct refresher sessions as needed	Contractor	WCs / WAJ/ Consultant	WAJ
		Work Method Statement to include "site management procedures" (covering entry authorization to site)	Procedures developed and submitted to client	Before commencement of works	Contractor	WCs / WAJ/ Consultant	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
<b>Operation Phase</b>							
<b>Physical Environment</b>							
<b>Incidental Hazardous Waste Management</b>	Low	To apply operational waste management mitigation measures	Waste management mitigation measures applied	Monthly	Operator	WCs	WAJ/ MoEnv
		Coordination with relevant municipality for disposal of non-hazardous maintenance waste	Coordination records, municipal receipts for disposal at official landfills	Monthly	Operator	WCs	WAJ/ MoEnv
		Coordination with MoEnv for disposal of maintenance hazardous waste including damaged solar PV panels	Coordination records and disposal receipts	Biannual	Operator	WCs	WAJ/ MoEnv
		Prepare HAZMAT area at site for temporary store hazardous material, damaged solar PV panels and waste prior disposal	Visual inspection	Prior commencement of operation	Operator	WCs	WAJ/ MoEnv
		Store hazardous material at site according to condition required by relevant MSDS	Visual inspection	Monthly	Operator	WCs	WAJ/ MoEnv
		Maintain proper housekeeping at the work locations during the O& activities	Visual inspection	Weekly	Operator	WCs	WAJ/ MoEnv
<b>Social and Socioeconomic</b>							
<b>Traffic Management</b>	low	Define and apply speed limit inside the facility(ie 20km/h) with installation of speed limit signs	During Regular Operation Inspection	Monthly	Operator	WAJ/ WCs	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
<b>Community Health &amp; Safety</b>	Low	Restrict entrance of public to the site without permission (as part of site management procedures) including prohibition of children on site under any circumstances	During Regular Operation Inspection	Daily	Operator	WCs	WAJ
		Perform regular security surveillance to check the plant fence	During Regular Operation Inspection	Daily	Operator	WCs	WAJ
		SEA/SH: - Signing of Code of Conduct by all workers	During Regular Operation Inspection	Weekly	Operator	WCs	WAJ
<b>Workers Health and Safety</b>	Low to moderate	Integrate and implement OHS procedures for workers involved in the O&M activities for the PV system under the facility operation manual including the following measures: <ul style="list-style-type: none"> <li>▪ Workers are aware of the associate to cleaning, checks, and removal of damaged cells.</li> <li>▪ Wear appropriate PPE during O&amp;M activities.</li> <li>▪ Use insulating gloves and mats when working with electrical components</li> <li>▪ To Display safety warning and information signs at the facility</li> <li>▪ Follow lockout/tagout (LOTO) procedures to ensure the system is</li> </ul>	During Inspection Manual includes all the measures available	Ongoing, during operation and maintenance	Operator	WCs	WAJ

ES Issue / Potential Impact	Significance	Mitigation Measures	Means of Verification	Monitoring Frequency	Responsibility		
					Implementation	Supervision	Monitoring
		<p>de-energized before performing maintenance</p> <ul style="list-style-type: none"> <li>▪ Avoid working on live circuits</li> <li>▪ Ensure safe storage and handling of cleaning agents and other chemicals used in maintenance</li> </ul>					
<b>Labor welfare and working conditions</b>	Low	<p>Child labor: Is completely prohibited under the age of 18 years.</p> <ul style="list-style-type: none"> <li>- Site Log of all workers</li> <li>- "Age Verification Procedure" for workers</li> </ul>	Verification of the "site log" of all workers with age verification records	Ongoing	Operator	WCs	WAJ
		Provide workers GM and communicate and display contacts to receive labor complaints according to workers GM	GM records and GM contact communicated and displayed	Quarterly	Operator	WCs	WAJ

## **Part D: E&S Monitoring and Reporting:**

- The ESSD and the Water Companies' E&S focal points are responsible for the environmental and social monitoring for the sub-projects sites and ensuring compliance with the Environmental and Social Framework (ESF) of the World Bank.
- The installation contractor of PV system is required to implement the subproject in compliance with the ESF, the national requirements, the ESMP checklist, and the bidding documents. This compliance is mandatory across all of the subproject sites, where the contractor's OHS officer is responsible to conduct daily OHS inspection, and the supervision consultant is required to monitor the E&S compliance and report to the ESSD on the E&S monitoring and evaluation of the ESMP Checklist.
- Incident/accident reporting will be notified to WC/WAJ/ESSD within 24 HRs, and the PMU/WAJ is responsible to notify the Bank within the timeframe depicted in the ESCP. It will also properly follow up with mitigation and correction measures as part of the incident reporting until concluding the works. Please see annex 2 for the incident notification template.



## ANNEX 1: List of Site sand of Identified Power Capacity

#	Facility	Mounting Type	Billing Type	System Capacity (DC) kWp]	System Capacity (AC) [KVA]	Location
1	North Shoneh WWTP	Ground mounted	Wheeling	1,141	798	Within the facility
2	Aboor	Ground mounted	Wheeling	1,141	798	Within the facility
3	Shobak WWTP	Ground mounted	Wheeling	1,141	798	Within the facility
4	Jitheh PS	Ground mounted	Wheeling	1,141	798	Within the facility
5	Karameh Dam	Ground mounted	Wheeling	1,141	798	Within the facility
6	New Athroh well	Ground mounted	Wheeling	412	286	Within the facility
7	Madaba WWTP	Ground mounted	Net-Metering	1,410	950	Within the facility
8	South Amman WWTP	Ground mounted	Net-Metering	628	425	Within the facility
9	Wadi Seer WWTP	Ground mounted	Net-metering	1,188	800	Within the facility
10	Ground Yasmeen Reservoir	Rooftop	Net-metering	536	450	Within the facility
11	Abu Alanda 2 Reservoir	Rooftop	Net-metering	400	300	Within the facility
12	Amman Warehouse (Hizam)	Ground mounted and roof-top	wheeling	702	480	Within the facility
13	Bani Hashem villages	Ground mounted	Net-metering	251	200	Within the facility
14	Hashmiya	Ground mounted	Net-metering	581	392	Within the facility
15	Waleh	Rooftop	Net-metering	191	130	Within the facility
16	Old Muntazah	Ground mounted and roof-top	Net-metering	758	520	Within the facility
17	Sokhneh	Ground mounted and roof-top	Net-metering	372	256	Within the facility
18	Naqab Daboor	Ground mounted and roof-top	Net-metering	302	112	Within the facility
19	Libb PS	Rooftop	Net-metering	215	150	Within the facility
20	Al Aqeb K134 - Plot 738	Ground mounted	Net-Metering	66	50	Within the facility
21	Al Aqeb K134 - Plot 737 (Beshrya PS)	Ground mounted	Net-Metering	66	50	Within the facility
22	Al Aqeb Reservoir	Rooftop	Net-Metering	28	22	Within the facility
23	Mafraq Warehouse (Jaber Hayyan)	Ground mounted	Wheeling	66	50	Within the facility
24	Mafraq WWTP	Ground mounted	Net-Metering	67	50	Within the facility
25	New Um Lulu	Ground mounted	Net-Metering	73	54	Within the facility
26	Ramtha WWTP	Ground mounted	Net-Metering	1,253	935	Within the facility
27	Almeraad WWTP	Ground mounted	Net-Metering	1,253	935	Within the facility
Total				16542.68	11723.83	

## ANNEX 2: Template for Accidents and Incident Reporting

<b>Incident Summary</b>		
<b>Date:</b>	<b>Time:</b>	<b>Place:</b>
<b>Full Name of Main Contractor</b>		
<b>Findings of Investigation Team Interim/Final</b>		
<b>Actions taken to contain the incident</b>		
1.		
2.		

Upon receiving of the initial notification, the Bank will share the ESIRT incident reporting forms as needed.

## ANNEX 3:

### Simplified Template for Consultations, & Management of Grievances and Implementation Issues for subproject activities

A. General Information about the Project or Component:	
Type/brief description of the project or component	
Site location	
Type and nature of impacts: Total amount of land (community assets expropriated) required for subproject (m2)	
When was site selected?	

A. Consultation	
Description of Consultation undertaken with potential and or Project Affected People –(PAPs) and or project stakeholders	
Public notification (means of notification examples. Workshops, radio announcement, public notices in the site, etc.)	
Who was invited?	
Who attended it?	
What kind of Contact information was provided?	
Issues raised during consultations	
What procedures were agreed on as next steps?	
What Information was collected about the PAPs (affected households, business, vulnerable groups? etc.	
How and when were the PAPs notified?	
Who met with the PAPs?	
How many meetings were held and which phase (preparation or implementation) did they reach?	

<b>B. Grievances Procedures:</b>	
Place and address to register grievance/complaints  (eg , which office number or address was given or was there a phone line established, etc.)	
Advertised—public awareness of the process	
Which Project level person (s) were designated to follow-up on the resolution of the grievances?	
Consultative Grievances group/committee including community /municipality members, local authorities to review the negotiation process	
Court/payment for court process	