



Environmental and Social Compliance Sheet

Rafah Transfer station

July 2021 - September 2021



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Potential Impact	Proposed Mitigation Measures	Status of Compliance
General Impacts	Standard Operation Procedures (SOPs) and operation manual should be followed	JSC complied with all required SOPs and followed the Operation Manual instructions.
Odor impacts	Transferring the accumulated wastes at the existing transfer station in a daily basis.	The JSC's vehicles transfers incoming solid waste from Rafah transfer station to Al-Fukhari landfill on a regular daily basis.
	Washing of tipping area regularly	The tipping area is washed at the end of each working day.
	Covering of the transported waste containers to the landfill	JSC vehicles which transfer the waste from the transfer station to the landfill are covered by a shed during the trip.
	The remaining waste at the night (if any) should be put in roll on/off container and covered	No waste was stored in the transfer station
Deterioration of air quality by dust caused by the operation of vehicles	Water spray of the operation site.	This is not applicable as there is no soil at the site location, and thus there is no dust. All the access road and the working area are paved.
	Implement preventive maintenance program for vehicles and promptly repair vehicle with visibly high exhaust	JSC vehicles are maintained on a regular basis.
Contamination of groundwater and soil by	Maintenance of the leachate tank and the collection pipes should be monitored monthly	JSC operation engineer check the leachate tank and collection pipes in a regular basis. No leakage was noticed.



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leachate, and toilet drainage during operation phase	Evacuate and transfer the Leachate to the nearest WWTP	The leachate is transferred to the adjacent WWTP, knowing that the leachate quantity is very small including the water which is used for washing everyday.
	Regular sampling and testing of groundwater	Groundwater quality is tested every six months, the last sample was taken in March 2021, and the next sample will be taken in soon All chemical and biological parameters are below the standard limit of drinking water except Chloride which has slightly high concentration, and nitrates which has high concentration. Historically, these two parameters are high in the area (before the construction of TS due to the old random dumpsite which was evacuated and closed, and the adjacent wastewater lagoons.
	Storm water should be drained by gravity or pumping to an empty area.	Storm water is drained by gravity to an adjacent open area.
Risks to Occupational Health and Hygiene	The Safety Plan of the operation of the transfer station should be followed, as well the emergency response plan.	The Safety Plan is followed, no injuries at the site during the reporting period.
	More specific training program shall be conducted to the workers about safe working methods and good hygiene practices. Updating the program in accordance to the workers performance is necessary.	There is no specific program, but supervisors conduct periodic trainings / instructions for the workers.
	Prevention of unauthorized admission to the TS specially the waste pickers due to safety purposes.	No waste pickers are allowed to access to the site. The site is fully secured and closed. Only authorized people access to the TS.
	Vaccination of all workers against Tetanus	All of JSC workers were vaccinated against Tetanus



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	Smoking is not allowed at the TS site	Smoking is not allowed at the site
	Follow the health and safety plans instruction during the operation.	Workers are following the safety procedures.
	All workers in the TS should be provided with anti-puncture gloves, Safety shoes, overalls and masks.	All workers are provided by PPE; JSC-KRM workers and municipality workers.
	First aid Boxes and fire extinguishers should be provided at the site	First aid box and fire extinguishers are distributed at the site.
	All of injuries should be documented, as well a report should be written after any of accident	A form for incidents is provided at the site, but no accidents were registered during the reporting period.
Noise Impacts	Limiting operation works to daytime.	The TS is working from 7:00 am to 1:00 pm only.
	Key noisy equipment (such as generators, trommels, conveyor belts ... etc.) should be selected with minimum noise.	No noise is noticed at the site or around the site.
	Optimize the use of machines and noisy equipment (i.e. switching off when idle).	No noise is noticed at the site or around the site.
	Planting of a wind break trees where appropriate to act as a noise buffer.	The adjacent Japanese park is a buffer area and it is planted by tens of trees. As well, the TS areas has different types of trees especially at the parameter.
Disruption of traffic movement on the main roads by the coming and outgoing solid waste vehicles and increase the	Schedule the movement of vehicles carefully.	<ul style="list-style-type: none"> - JSC trips are only two - three trips per day and they are not making any traffic. - Municipality trucks and donkey carts were not noticed making traffic on the main roads.
	Monitor and Control the speed of Waste Vehicles.	The allowed max speed limit of vehicles inside the TS is 20Km/hr.



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probability of accidents		The allowed max speed limit of vehicles outside the TS is 30 km/hr. No complaints were received regarding to the speed limit, and no accidents were recorded.
	Schedule the movement of vehicles and carts carefully; restrict transport trucks travel to the hours outside the rush hours	Municipality of Rafah is scheduling the vehicles and carts.
Visual Impacts and Aesthetics	Provide adequate buffer area, such as trees, or fences, between the facility and potential receptors	The adjacent Japanese park is a buffer area and it is planted by tens of trees. As well, the TS areas has different types of trees especially at the parameter.
Pests impacts	Follow the pest management plan instruction during the operation	Municipality plan is to use the pesticides in the summer time (April - November). They spray the pesticides twice a week around the transfer station.
	Apply pesticides as needed through an application plan that would give preference to biological pesticides, then to other pesticides with negligible impact on humans and minimum impact on untargeted species and the environment.	No complaints were received to JSC or Municipality regarding to flies from the surrounding neighborhoods.
Inconvenience to local community	Grievance uptake Channels to be created in the site for any coming complaints during operation	Grievance uptake Channels were provided, and complaints about waste management were recorded. Most of complaints are requesting new waste containers, whereas there is no complaints associated with the TS.
	Conduct periodic consultation sessions with the local community in Al-Fukhari to share information about the operational activities and the implementation of the mitigation measures, in	No consultation was conducted during the reporting period due to the COVID-19 restrictions.



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	addition to record their new concerns.	
	Develop and Implement a strong communication plan to share information with the community.	As an output of the communication plan, JSC-KRM is tendering and will contract with a company to provide awareness materials.
	Use the multimedia and the social media to share photos and videos about the daily work to share it with the community.	JSC-KRM is tendering and will contract with a company to provide awareness materials including multimedia and social media materials.
	Following up and managing the complaint system in JSC-KRM day by day.	The system is under development, and it received and follow up complaints on a daily basis.
	Invite the stakeholders to visit the facility to strengthen the relationship with JSC-KRM and exchange the knowledge with the related parties.	Some site visits were carried out to the TS.
	Limit the communication between workers and the surrounding local community	No communication between workers and community.
Labor Rights	Ensure that all the workers in JSC-KRM are covered by the insurance	All workers are covered by insurance.
	Ensure that all the workers took the required Vaccinations according to the MoH recommendations.	All fixed municipal and JSC workers took the COVID-19 vaccination. Temporary workers (3 months of work) are changeable, and some of them took the vaccination.
	that all the workers can get the allowance according to the Palestinian Labor Law.	Fixed municipal workers has risk allowance.
	Review the code of conduct of the workers in the facility and update it when it needed according to the registered accidents,	JSC-KRM signed the COC, whereas signing of the COC of the municipality workers is the responsibility of Rafah Municipality.



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	behaviors and concerns and ensure that all the workers are aware about it.	
	Sexual exploitation and abuse and sexual harassment should be controlled	No cases were recorded.
	Provide all the required hygiene and cleaning materials for the workers and enforce them to use it specially before taking their meals inside the facility.	All personal sanitizers and PPE were provided to workers.
	Provide all the required first aid tools and store it in suitable and easily accessible place.	First aid box was provided.
	Conduct periodic meetings with the workers to listen to their concerns and encourage them to use the complaint system.	Done
	Prevent any child under the legal age to work at the site. Age verification should be conducted when engaging project workers and it should be monitored to be not less than 18 years old.	No children were allowed to work at the site.



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ANNEX I: Groundwater Quality Results – Rafah Transfer station

Date of Results: 15-04-2021

Date of sampling: 28-03-2021

Table of Results – Groundwater quality in Rafah Transfer station

Parameters	Unit	Results
pH	-	7.25
EC	µS/cm	4600
TDS	mg/l	2900
TSS	mg/l	Nil
BOD	mg/l	<10
COD	mg/l	30
TKN	mg/l	Nil
NH ₄ -N	mg/l	Nil
NO ₃	mg/l	450
Total N	mg/l	100
PO ₄ -P	mg/l	1
SO ₄	mg/l	80
K	mg/l	7
Na	mg/l	360
Cl	mg/l	880
FC	mg/l	Nil
Alkalinity	mg/l	500
Cd	mg/l	< 0.002
Zn	mg/l	<0.001
Pb	mg/l	< 0.005
Cu	mg/l	<0.0006
Hg	mg/l	ND
Cr	mg/l	< 0.001
As	mg/l	ND
Al	mg/l	0.002
Fe	mg/l	0.01
Ni	mg/l	< 0.002
Mn	mg/l	< 0.002
CN	mg/l	ND

ANNEX II: IMAGES



Training / daily instructions including the health and safety instructions



Cleaning of the transfer station entrance



Cleaning and washing of the tipping area at the end of each working day.



Coverage of outgoing trucks which transfer the waste from Rafah transfer station to the landfill (15 km)



Workers including temporary waste collection workers were provided by PPE