## **Environmental and Social Compliance Summary Sheet**

| Potential<br>Impact                        | Proposed Mitigation<br>Measures  | Summary of Progress   |
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| General<br>Impacts                         | Standard Operation<br>Procedures (SOPs) and<br>operation manual should be<br>followed  | SOPs were followed except SOPs related to<br>Leachate treatment and pumping   |
| Odor Impacts                               | Upgrade the rates of<br>compaction and application of<br>soil cover  | Compaction and soil cover were applied on a daily basis   |
|  | <ul> <li>Apply the daily cover to<br/>prevent any of waste self-<br/>burning at the site</li> </ul>  | Daily cover were applied at the end of each day. The<br>source of soil is the near stockpile which was<br>resulted from the landfill excavations.   |
| a  | <ul> <li>Reject any burnt waste to be<br/>received at the disposal cell to<br/>prevent the distribution of<br/>fires</li> </ul>  | Burnt Waste received were rejected to access to the disposal cell   |
| Deterioration of air quality by Dust/smoke | • Ensure the waste filling schedule is followed as per the operation plan, as well the daily and final cover to be applied. The gas collection system will be installed at the landfill closure phase.   | Waste filling schedule were followed as detailed in<br>the operational manual   |
|  | <ul> <li>All vehicles and heavy<br/>equipment working in the site<br/>should be maintained<br/>according to the maintenance<br/>schedule recommended by<br/>the manufacturer/supplier.<br/>Any vehicle that has high<br/>smoke emissions visibility<br/>detected should be promptly<br/>repaired.</li> </ul> | All vehicles were maintained according to the maintenance schedule  |
|  | • Water spraying especially in the dry days when dust is noticed.  | Water spraying were used when dust noticed in some<br>of dry days. The source of water is the stormwater<br>lagoon, and the tool of water spraying is getter "one<br>of landfill equipment" |
|  | • Keep stable slopes of the  | Slopes of the stockpile is stable, and it was taken   |

## Environmental and Social Management Matrix for Al-Fukhary (Sofa) Landfill Site During Operation Phase

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|--|---|---|
|  | stockpile   | into consideration once taking the daily cover not to affect the slope stability.   |
|  | <ul> <li>Distribute safety signs around<br/>the stockpile site</li> </ul>   | Safety signs were distributed.  |
| Impacts on groundwater and soil              | • The leachate pond should be regularly de-sludged and the removed sludge should be transferred back to the landfill.   | No sludge was noticed yet   |
|  | <ul> <li>The leachate collection<br/>pumping station and<br/>correspondent piping network<br/>should be adequately<br/>maintained to ensure smooth<br/>operation.</li> </ul>  | Adequately maintenance done for collection pumping station and piping network   |
|  | <ul> <li>Regular testing of the<br/>groundwater quality at the<br/>downstream and upstream<br/>areas</li> </ul>   | Every six month there is an inspection for ground<br>water quality. The results were compared with the<br>Palestinian regulatory standards and baseline results<br>and no changes were noticed of the groundwater<br>quality. |
|  | <ul> <li>Regular maintenance shall<br/>always be planned during the<br/>non-rainy period. Spare<br/>pumps shall be available at<br/>the site to be used in the<br/>event of accidental<br/>breakdown of the operating<br/>pumps.</li> </ul> | Spare pumps are available at the site   |
|  | <ul> <li>Secure the site by fence and<br/>monitor the site by CCTV to<br/>prevent leachate stealing</li> </ul>  | The site are secure by a fence and monitor by CCTV  |
| Risks of<br>receiving<br>hazardous<br>wastes | • Workers of the landfill should<br>receive adequate training on<br>the permitted and prohibited<br>list of waste to be<br>received/rejected at the<br>landfill site based on the JSC-<br>KRM bylaws.                                       | ALL workers in the landfill had adequate training<br>and signed the Code of Conduct   |

| Potential<br>Impact                                       | Proposed Mitigation<br>Measures   | Summary of Progress  |
|---|---|--|
| Impace  | measures  |  |
|   | <ul> <li>Awareness of hazardous<br/>waste generators regarding<br/>the sorting at source in order<br/>to avoid a mixing of hazardous<br/>and non-hazardous waste.</li> </ul>  | JSC-KRM workers are aware about the hazardous<br>waste, no hazardous waste is collected, and if any of<br>hazardous waste is discovered in front of the control<br>room or even in the cell during the dumping, then it<br>can be rejected and transferred outside the landfill. |
|   | • The list of prohibited waste should be clearly shared with municipalities   | List of prohibited waste shared with municipalities,<br>and it is printed and installed at the gate of the<br>landfill   |
| Risks to<br>occupational<br>Safety, health<br>and hygiene | • The Safety Plan of the operation of the landfill should be followed, as well the emergency response plan.   | Safety plan of the operation are followed as well as<br>emergency response plan  |
|   | <ul> <li>More specific training<br/>program shall be conducted<br/>to the workers about safe<br/>working methods and good<br/>hygiene practices. Updating<br/>the program in accordance to<br/>the workers performance is<br/>necessary.</li> </ul> | Training about COVID 19 precaution measures and<br>the Health protocol was conducted for workers. Also<br>workers had a training about Code of Conduct<br>content.   |
|   | <ul> <li>Prevention of unauthorized<br/>admission to the landfill<br/>specially the waste pickers.</li> </ul>   | Waste pickers are prevented to enter the landfill, no<br>waste pickers were noticed at the site since the<br>operation of the landfill.  |
|   | <ul> <li>Vaccination of all workers<br/>against Tetanus</li> </ul>  | All workers take vaccination against tetanus   |
|   | <ul> <li>Smoking is not allowed at the<br/>landfill site</li> </ul>   | Smoking is not allowed at the landfill   |
|   | <ul> <li>Follow the health and safety<br/>plans instruction during the<br/>operation.</li> </ul>  | Health and safety plan are followed  |
|   | <ul> <li>All workers in the landfill<br/>should be provided with anti-<br/>puncture gloves, Safety shoes,<br/>overalls and masks.</li> </ul>  | All workers were provided with anti-puncture gloves<br>,safety shoes ,overall and masks  |
|   | <ul> <li>Securing the deep areas by a<br/>fence to prevent the<br/>drowning in the storm water<br/>lagoon/leachate lagoon.</li> </ul>   | Storm water lagoon and leachate lagoon are secured with fence  |
|   | <ul> <li>All of injuries should be<br/>documented, as well a report<br/>should be written after any of<br/>accident</li> </ul>  | no injuries were reported at the landfill site   |

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| Pests Impacts                                    | <ul> <li>Follow the pest management<br/>plan instruction during the<br/>operation.</li> </ul>  | Pest management plan instruction operated during<br>the operation. PPE is committed by the workers, and<br>the used pesticide is PTI which is allowed by MoH.<br>The frequency of spraying is weekly. |
| Noise impacts                                    | <ul> <li>Key noisy equipment (such as<br/>generators, trommels,<br/>conveyor belts etc.) should<br/>be selected with minimum<br/>noise;</li> </ul>   | We keen to operate machines with minimum noise  |
|  | <ul> <li>Optimize the use of machines<br/>and noisy equipment (i.e.<br/>switching off when idle);</li> </ul>   | We keen to operate machines with minimum noise  |
|  | <ul> <li>In case the landfill manager<br/>received complaints from<br/>neighboring areas regarding<br/>noisy operations acoustic<br/>barriers should be placed<br/>between the noise source and<br/>the location of the<br/>complaining neighbor.</li> </ul> | No complaints from neighboring areas regarding<br>noisy operations  |
| Visual impacts<br>and aesthetics                 | <ul> <li>Provide adequate buffer area,<br/>such as trees, or fences,<br/>between the facility and<br/>potential receptors</li> </ul>   | There are fences between the facility and the surrounding lands   |
|  | <ul> <li>apply the daily cover to<br/>conserve the aesthetics<br/>conditions"</li> </ul>   | Daily cover were applied (3621) m3 of soil used for<br>daily and intermediate cover   |
|  | <ul> <li>Compaction of waste at the<br/>disposal cell to maximize the<br/>landfill lifespan and capacity</li> </ul>  | Compaction of waste were done by using D8 (one of landfill equipment"   |
| Impacts of the<br>incoming and<br>outgoing waste | <ul> <li>Drivers should not exceed the<br/>driving limit 20 km/hr inside<br/>the landfill site</li> </ul>  | Drivers don't exceed the limit speed 20 km/hr inside<br>the landfill, briers were also installed on the landfill<br>ring road   |
| vehicles (Traffic)                               | <ul> <li>Traffic barriers and signs<br/>should be installed to</li> </ul>  | Traffic barriers and signs were installed   |

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|---|--|---|
|   | <ul> <li>decrease the speed of driving</li> <li>The unauthorized vehicles should be rejected to access to the landfill site</li> </ul>   | Unauthorized vehicles are rejected to access to the landfill site   |
|   | <ul> <li>Washing the waste vehicles<br/>and the place of washing<br/>should be approved by the<br/>landfill manager</li> </ul>   | The wheal cleaning is not constructed yet.  |
| Fauna and<br>Flora ex:<br>distribution of<br>dogs / birds at<br>the landfill site | Communication with<br>animal welfare societies to<br>deal with them.   | We communicate NGO "sulala" to deal with<br>animal inside the landfill, all of stray dogs<br>were transferred to Sulala land. No more<br>stary dogs were noticed at the landfill site |
|   | <ul> <li>Grievance uptake Channels to<br/>be created in the site for any<br/>coming complaints during<br/>operation</li> </ul>   | E-Complaint system of the JSC-KRM was established<br>in 2018. Other channels can be used also such as call<br>phones.   |
| Inconvenience to local community  | <ul> <li>Conduct periodic<br/>consultation sessions with the<br/>local community in Al-Fukhary<br/>to share information about<br/>the operational activities and<br/>the implementation of the<br/>mitigation measures, in<br/>addition to record their new<br/>concerns.</li> </ul> | • No meetings were carried out in the last months due to COVID-19 measures  |
|   | <ul> <li>Develop and Implement a<br/>strong communication plan to<br/>share information with the<br/>community in the service<br/>area.</li> </ul>   | • Communication plan was developed and it is under implementation   |
|   | <ul> <li>Use the multimedia and the<br/>social media to share photos<br/>and videos about the daily<br/>work to share it with the<br/>community.</li> </ul>  | <ul> <li>Information and images about the progress of work<br/>is shared on the social media (JSC-KRM Facebook<br/>page)</li> </ul>   |
|   | <ul> <li>Following up and managing<br/>the complaint system in JSC-<br/>KRM day by day.</li> </ul>   | <ul> <li>All of the received complaints were related to<br/>primary and secondary collection, and all of them<br/>were solved.</li> </ul>   |
|   | <ul> <li>Invite the stakeholders to visit<br/>the facility to strengthen the<br/>relationship with JSC-KRM and<br/>exchange the knowledge with</li> </ul>  | • Some of stakeholders visited the landfill site in the last months such as some of NGOs, mayors, youth groups, and women committee   |

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|---------------------|--|--|
|                     | the related parties.   |  |
|                     | <ul> <li>Restrict the communication<br/>between workers and the<br/>surrounding local community.</li> </ul>  | Communication between workers and the surrounding local community are prevented  |
| Labor Rights        | • Ensure that all the workers in JSC-KRM are covered by the insurance  | All workers in JSC-KRM are covered by the insurance                              |
|                     | <ul> <li>Ensure that all the workers<br/>can get the allowance<br/>according to the Palestinian<br/>Labor Law.</li> </ul>  | All workers get the allowance according to the<br>Palestinian labor law          |
|                     | <ul> <li>Sexual exploitation and abuse<br/>and sexual harassment should<br/>be controlled</li> </ul>   | No cases for Sexual exploitation and abuse and sexual harassment                 |
|                     | <ul> <li>Review the code of conduct of<br/>the workers in the facility and<br/>update it when it needed<br/>according to the registered<br/>accidents, behaviors and<br/>concerns and ensure that all<br/>the workers are aware about<br/>it.</li> </ul> | code of conduct of the workers was updated and<br>signed by each worker          |
|                     | <ul> <li>Provide all the required<br/>hygiene and cleaning<br/>materials for the workers and<br/>enforce them to use it<br/>specially before taking their<br/>meals inside the facility.</li> </ul>  | all the required hygiene and cleaning materials for<br>the workers were provided |
|                     | <ul> <li>Provide all the required first<br/>aid tools and store it in<br/>suitable and easily accessible<br/>place.</li> </ul>   | first aid tools available for the workers in suitable<br>places                  |
|                     | <ul> <li>Conduct periodic meetings<br/>with the workers to listen to<br/>their concerns and encourage<br/>them to use the complaint<br/>system.</li> </ul>   | meetings with the workers are done periodically                                  |
|                     | <ul> <li>Provide suitable rest place for<br/>all workers at the site, and<br/>assign a rest hour for all<br/>workers</li> </ul>  | suitable rest place for all workers at the site is<br>available                  |
|                     | • Prevent any child under the legal age to work at the site.   | No children are working at the site  |

| Potential<br>Impact | Proposed Mitigation<br>Measures   | Summary of Progress |
|---------------------|---|---------------------|
|                     | Age verification should be<br>conducted when engaging<br>project workers and it should<br>be monitored to be not less<br>than 18 years old. |                     |





