



ENVIRONMENTAL IMPACT ASSESSMENT - EIA

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP
ENVIRONMENTAL SPECIALIST COURSE





STATEMENT OF COMMITMENTS FOR ENVIRONMENTAL PROFESSIONALS

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP
ENVIRONMENTAL SPECIALIST CURRICULUM



WHAT SHOULD YOU LEARN



This section outlines and reiterates the commitments to mitigate the environmental and social impacts associated with the project Master Plan. It also outlines the state of the commitments required from different stakeholders for the functioning and sustainability of project.

Conclusions and Next steps



STATEMENT OF COMMITMENTS

Client is committed to develop the Environmental Management Framework or EMPs within 6 months after the starting of project development. This EMF includes details about mitigation, monitoring and reporting processes to ensure that the environmental and social impacts identified and summarised at Table 5-52 are addressed.

The Table 7-1 below presents a summary of these major utilities or services, the associated stakeholder / service provider and the current status of commitment.

STAKEHOLDER COMMITMENT SUMMARY

Utilities / Services	Relevant Stakeholder / Service Provider	Current Status of Commitment
Electricity	Kahramaa	Discussions have been held with relevant Kahramaa officials and Kahramaa has in principal agreed to meet the demands for electricity during construction and operations phases of the project. The relevant minutes of the meetings / discussion records are included in Appendix 7.1.
Potable Water	Kahramaa	Discussions are currently ongoing with Kahramaa officials.
Sewage Network	ASHGHAL	The sewage network within QE23 will be connected to the New Doha South Treatment Works through Inner Doha Re-sewerage Implementation Strategy (IDRS) currently being developed by ASHGHAL. Discussions have been held with relevant ASHGHAL personnel wherein they indicated that all necessary infrastructure will be made available for QE23 to connect the sewage network with IDRS. The relevant minutes of the meetings / discussion records are included in Appendix 7.1. IDRS is however expected to be operational after 2019. In the interim, QE23 will install a packaged Sewage Treatment Plant (STP) as a part of Phase 1 which will continue to operate on site until IDRS is fully operational.
TSE	ASHGHAL	Discussions have been held with relevant ASHGHAL wherein they indicated that all necessary infrastructure related to supply of TSE will be made available for QE23. The relevant minutes of the meetings / discussion records are included in Appendix 7.1. However, New Doha South Treatment Works and IDRS are expected to be operational after 2019. Until then, the TSE

STAKEHOLDER COMMITMENT SUMMARY

Utilities / Services	Relevant Stakeholder / Service Provider	Current Status of Commitment
Make-up water for DCP1 and DCP4	Facility D	Discussions will be met through the onsite packaged STD. Facility D is expected to have sewerage make channels for cooling towers. It is currently intended to take the make-up water for DCP1 and DCP4 from Facility D through their sewerage make channels. Discussions are currently ongoing with Kahramaa and Facility D in this regard. A meeting was held on 20/10/2015 involving Kahramaa, WATCO, Wastephonix, and the client. Further, Kahramaa is further discuss the issue. Kahramaa agreed to provide with the proposal to connect obtain the make-up water for DCP1 and DCP4 from Facility D sewerage make channels. Kahramaa indicated that further follow-up meetings will be required with the client and WATCO to be able to finalise all the technical, logistical, and coordination issues associated with this issue. A copy of the Minutes of the meeting held on 20/10/2015 was forwarded to the client for their review and for their comments are provided in Appendix 7.1. DCP1 is expected to be operational before Facility D becomes operational. It is hence intended to obtain the make-up water for DCP1 from TSE supplied by ASHGHAL or onsite STP. DCP4 expected to become operational after 2022 when Facility D will be fully operational, hence alternative sources to source make-up water are not envisaged.
Make-up water for DCP2 and DCP3	ASHGHAL	DCP2 and DCP3 will be using TSE as make-up water. DCP 2 and DCP3 will be part of Phase 2 and 3 expected to be operational after 2020, when the New Doha South Treatment Works is also expected to be operational which will supply TSE. ASHGHAL has indicated that indicated that all necessary infrastructure related to supply of TSE will be made available for QE23. The relevant minutes of the meetings / discussion records are included in Appendix 7.1.

Discharge of blowdown from DCP1 and DCP4	Facility D	Facility D is expected to have sewerage outfall as a part of their cooling water channels. It is currently intended to discharge the blowdown from DCP1 and DCP4 through the sewerage outfall of Facility D. Discussions are currently ongoing with Kahramaa and Facility D in this regard. DCP1 is expected to be operational before Facility D becomes operational. It is hence intended to take the blowdown from DCP1 with TSE to meet MCE specifications and use for irrigation within QE23. DCP4 expected to become operational after 2022 when Facility D will be fully operational, hence alternative sources to source make-up water are not envisaged.
Disposal of Hazardous Waste	QIP MIC	The hazardous waste generated within QE23 will be sent to HWTC in Muscat for further treatment and disposal. Discussions with QIP MIC are ongoing. The HWTC will be able to receive, treat and dispose hazardous waste.
Non-hazardous	MMUP and	The letter from QIP indicating this approval is included in Appendix 7.1. The construction waste is expected to be disposed at landfill at

STAKEHOLDER COMMITMENT SUMMARY		
Utilities / Services	Relevant Stakeholder / Service Provider	Current Status of Commitment
Waste	General Cleaning Project (GCP)	Rawdat Rasheed. The operations waste is expected to be disposed at Domestic Waste Centre in Mesaieed. Discussions MMUP and GCP were initiated and it was indicated that most contractors are expected to maximise the reuse and recycle their waste through MOE mandate. MMUP and GCP are currently exploring options for the estimated waste quantities from QEZ3 during construction and operations phases. The discussions are currently ongoing with these authorities. The relevant minutes of the meetings / discussion records are included in Appendix 7.1.
Relocation of Archaeological Artefacts	Qatar Museums	Archaeological artefacts were identified at "Qasr al-Malayhat" (70 m²) and "Um Al Hou" (1,000 m²). Qatar Museum Authority has indicated that these artefacts at Qasr al-Malayhat will be placed at the Nature Interpretation and Heritage Centre. The archaeological site at Um Al Hou will be integrated within water front master plan. The relevant minutes of the meetings / discussion records are included in Appendix 7.1. These will be undertaken as a part of Phase 4 development expected after 2022.

CONCLUSIONS AND NEXT STEPS
<p>The purpose of this EIA is to ensure that information on the significant environmental impacts of project Development is gathered, assessed and made available to decision-makers. Therefore, this EIA constitutes a key component which focuses on protecting the environment and, at the same time, provides the opportunity to incorporate the participation of stakeholders into the decision making process.</p> <p>As a result of the EIA process a number of potential negative impacts have been identified for the Construction, Operation and Decommissioning phases of the project development. However, if mitigation measures proposed within the EIA are adopted and the EMF OR EMPs is implemented, impacts will be significantly reduced. Moreover, positive impacts have also been identified including benefits to economic activities due to staffing and the purchase of supplies and services that will translate in significant economic opportunities in the area.</p>



BEYOND
SMART CITIES

THANK YOU

THE WORLD'S 1ST GREEN TECHNOLOGY
MARKETPLACE

ENVIRONMENTAL SPECIALIST
BEYOND SMART CITIES
