Table 1: Criteria for Assessing the Significance of Impacts

Rating	Definition of Rating	Score			
	A. EXTENT – the area in which the impact will be experienced				
Local	Confined to project or study area or part thereof (e.g. site)	1			
Regional	The region, which may be defined in various ways, e.g.	2			
	cadastral, catchment, topographic				
Inter(national)	Nationally or beyond	3			
	B. INTENSITY – the magnitude or size of the impact				
Low	Site-specific and wider natural and / or social functions and	1			
2011	processes are negligibly altered	•			
Medium	Site-specific and wider natural and / or social functions and	2			
Modiani	processes continue albeit in a modified way				
High	Site-specific and wider natural and / or social functions or	3			
i ngn	processes are severely altered	· ·			
C. DURATION – the time frame for which the impact will be experienced					
Short-term	For the duration of project activities / up to 2 years	1			
Medium-term	2 to 15 years	2			
Long-term	More than 15 years	3			

The combined score of these three criteria corresponds to a consequence rating, as set out in Table 2 (Note that the lowest possible consequence score is 3).

Table 2: Method used to determine the consequence score

Combined Score (A+B+C)	3 - 4	5	6	7	8 - 9
Consequence Rating	Very Low	Low	Medium	High	Very High

Once the consequence is derived, the probability of the impact occurring is considered, using the probability classifications presented in Table 3.

Table 3: Probability classification

Probability of impact – the likelihood of the impact occurring		
Improbable	< 40% chance of occurring	
Possible	40% - 70% chance of occurring	
Probable	> 70% - 90% chance of occurring	
Definite	> 90% chance of occurring	

The overall significance of impacts is determined by considering consequence and probability using the rating system prescribed in Table 4.

Table 4: Impact significance ratings

		Probability			
		Improbable	Possible	Probable	Definite
nce	Very Low	INSIGNIFICANT	INSIGNIFICANT	VERY LOW	VERY LOW
edne	Low	VERY LOW	VERY LOW	LOW	LOW
used	Medium	LOW	LOW	MEDIUM	MEDIUM
ပိ	High	MEDIUM	MEDIUM	HIGH	HIGH
	Very High	HIGH	HIGH	VERYHIGH	VERY HIGH

Finally the impacts are considered in terms of their status (positive or negative) and the confidence in the ascribed impact significance rating is noted. The classification for considering the status of impacts and the confidence in assessment is laid out in Table 5.

Table 5: Impact Status and Confidence Classification

Status of Impact	
Indication whether the impact is	+ ve (positive – a 'benefit')
adverse (negative) or beneficial	– ve (negative – a 'cost')
(positive)	Neutral
The degree of confidence in	Low
predictions based on available	Medium
information, the environmental	
consultant's judgment and / or	High
specialist knowledge.	

Different types of impacts were also considered in the impact ratings, as listed in Table 6.

Table 6: Types of Impact

Direct – impacts that result from the direct interaction between a project activity and the receiving environment (e.g. dust generation which affects air quality).

Indirect – impacts that result from other (non-project) activities but which are facilitated as a result of the project or impacts that occur as a result of subsequent interaction of direct project impacts within the environment (e.g. reduced water supply that affects crop production and subsequently impacts on subsistence-based livelihoods).

Cumulative – impacts that act together with current or future potential impacts of other activities or proposed activities in the area / region that affect the same resources and / or receptors (e.g. combined effects of waste water discharges from more than one project into the same water resource, which may be acceptable individually, but cumulatively result in a reduction in water quality quality).

There is no statutory definition of 'significance' and its determination is therefore necessarily partially subjective. Criteria for assessing the significance of impacts arise from the following key elements:

Status of compliance with relevant local legislation, policies and plans, any relevant or industry policies, environmental standards or guidelines and internationally accepted best practice:

- The consequence of the change to the biophysical or socio-economic environment (e.g. loss of habitats, decrease in water quality) expressed, wherever practicable, in quantitative terms. For socio-economic impacts, the consequence must be viewed from the perspective of those affected, by taking into account the likely perceived importance of the impact and the ability of people to manage and adapt to the change;
- The nature of the impact receptor (physical, biological, or human). Where the receptor is physical (e.g. a water resource) its quality, sensitivity to change and importance must be considered. Where the receptor is biological, its importance (e.g. its local, regional, national or international importance) and its sensitivity to the impact must be considered. For a human receptor, the sensitivity of the household, community or wider societal group must be considered along with their ability to adapt to and manage the effects of the impact; and
- ▶ The probability that the identified impact will occur. This is estimated based upon experience and / or evidence that such an outcome has previously occurred.

The impact significance rating also reflects the need for mitigation. While low significance impacts may not require specific mitigation measures, high significance negative impacts demand that adequate measures be put in place, to reduce the residual significance (impact significance rating, after mitigation), as described below in Table 7.

Table 7: Definitions of Impact Significance

Insignificant: the potential impact is negligible and no mitigation measures or environmental management is required.

Very Low & Low: no specific mitigation measures required, beyond normal environmental good practices.

Medium - High: specific mitigation measures should be devised, to reduce the impact significance to an acceptable level. If mitigation is not possible, compensation measures should be considered.

Very High: specific mitigation measures should be identified and implemented, to reduce the impact significance to an acceptable level. If such mitigation is not possible, very high significance negative impacts should be considered in the project's authorisation process.

Note that impact significance will be rated in the prescribed way both without and with the effective implementation of the recommended mitigation measures.