



Annex 6: Impact Assessment

The impact of each activity on each receptor was assessed according to magnitude on a scale of -10 to 10, where negative values indicate a negative influence on the receptor, and importance on a scale of 0 to 10, which encompasses the probability of occurrence, frequency of the impact etc. The numbering system is used as a relative measure, where more negative numbers correspond to impacts having a higher negative magnitude. Susceptible receptors and corresponding activity are deduced and addressed if both magnitude and importance are of minor severity. Results of the impact assessment based on the Leopold method are presented in the table below.



The Buroz Relevant Integrated Criteria and is used to determine the Impact Significance, I, of the impact for each activity on all receptors and of the project overall. On the basis of the value of the importance of impact, I, obtained, the severity of the impact of an activity is assessed.

Criterion	Definition	Scoring Scale
Intensity (IN)	Degree of destruction of activity on receptor	1 (lowest)-12 (highest)
Extension (EX)	Theoretical area of influence of the impact	1 (localized) – 8 (widespread)
Momentum (MO)	Period of time for manifestation of the impact	4 (immediate: <1 year) – 2 (medium: 1-5 years)- 1 (long term: > 5 years)
Persistence (PE)	Duration of the effect of the impact	1 (fleeting, < 1 year), 2 (temporary, 1-5 years), 4 (permanent, >5 years)
Reversibility (RV)	Possibility of returning to pre-activity initial conditions by rebuilding or natural means	1 (short term, < 1 year)- 2 (medium term, 1-5 years) – 4 (long term, > 5 years or irreversible)
Recoverability (MC)	Possibility of reconstruction with corrective measures	1 -2 (full and immediate recovery)- 4 (partial recovery and medium term)- 8 (unrecoverable)
Synergy (SI)	Reinforcement ability of manifested effects	1(No synergy of actions on a receptor) -2 (moderate synergism)-4 (high synergy)
Accumulation (Ac)	Progressive increase of the effect	1 (no cumulative effect)-4(cumulative effect)
Effect (EF)	Directionality of impact-the cause (action)-effect (impact)	4 (direct)- 1 (indirect)
Frequency (PR)	Regularity of manifestation of the effect	4 (continuous) – 2 (irregular)-1 (periodic)
Impact Significance (I)	$I = \pm (3 \times IN + 2 \times EX + MO + PE + RV + SI + AC + EF + PR + MC)$	
Impact score	Impact rating	
0-25	None or irrelevant (no impact);	
26-50	Minor severity (minimal impact; restricted to the work site and immediate surroundings)	
51-75	Medium severity (larger scale impacts: local or regional; appropriate mitigation measures readily available);	
76-300	Major severity (Severe/long-term local/regional/global impacts; for negative impacts mitigation significant).	

The table below presents impact assessment results based on the Buroz’s Relevant Integrated Criteria



Activities	Construction												Operation and maintenance				
	Transport of equipment and machinery	Temporary storage/unloading of equipment and materials	Site preparation area delineation and fencing	Working in outdoor environment	Building construction of control room	Installation of mechanical equipment	Placement wiring and electrical connections	Waste generation	Excavation: high pressure network	Welding	Pipe laying	Backfilling	Leakage testing:Hydrostatic	PRS operation	High pressure pipeline	Odorant unit	Routine inspection and maintenance
Criteria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Type of impact	1	1	1	9	1	6	12	6	9	9	9	5	12	6	6	6	8
Intensity (IN)/12	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	2	4
Extension (EX)/8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Momentum (MO)/4	1	1	1	1	1	1	2	4	4	4	4	1	1	1	1	1	1
Persistence (PE)/5	1	1	1	1	1	1	4	1	4	4	1	1	1	1	1	4	1
Reversibility (RV)/4	1	1	1	2	1	1	1	4	1	1	1	1	1	1	1	1	2
Sinergy (SI)/4	1	1	1	2	1	1	1	4	1	1	1	1	1	1	1	2	1
Accumulation (AC)/4	1	1	1	4	1	1	1	4	4	4	4	4	1	1	4	4	4
Effect (EF)/4	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1
Frequency (PR)/4	1	1	1	4	1	1	4	1	4	4	1	4	1	1	4	1	1
Recoverability (MC)/8	16	16	16	48	16	31	56	46	52	52	52	31	61	31	31	43	47
Importance of impact (I)	37.9												38.0				
	38.0																