# **Appendix 4-7C**

Calculation of Industrial Noise Levels (Operational Noise

Due to Warehouse and Godown During

Nighttime Period)

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor		Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.		Noise	Comply with Noise Criteria or not
1/F	N-ind1	S1-1	Operating noise	94	1	94	252	252	-56	3	41	45	Yes
	N-ind1		Loading and unloading using forklift	91	2	94	321	321	-58	3	39	45	Yes
•	Total								Cumulat	ive Total <sup>@</sup> :	43	45	Yes

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

<sup>@</sup> The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor	NSR	Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.		Noise	Comply with Noise Criteria or not
1/F	N-ind2	S1-1	Operating noise	94	1	94	261	261	-56	3	41	45	Yes
			Loading and unloading using forklift	91	2	94	316	316	-58	3	39	45	Yes
•	Total		_						Cumulat	ive Total <sup>@</sup> :	43	45	Yes

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

<sup>@</sup> The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor	NSR	Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.		Noise	Comply with Noise Criteria or not
1/F	N-ind2A	S1-1	Operating noise	94	1	94	285	285	-57	3	40	45	Yes
	N-ind2A		Loading and unloading using forklift	91	2	94	343	343	-59	3	38	45	Yes
•	Total								Cumulat	ive Total <sup>@</sup> :	42	45	Yes

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

<sup>@</sup> The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor	NSR	Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.		Noise	Comply with Noise Criteria or not
1/F	N-ind2B	S1-1	Operating noise	94	1	94	251	251	-56	3	41	45	Yes
	N-ind2B		Loading and unloading using forklift	91	2	94	302	302	-58	3	39	45	Yes
•	Total								Cumulat	ive Total <sup>@</sup> :	43	45	Yes

Only NSR locations that are within 300m radius from the identified industrial noise sources are included in the noise assessment as per Project Study Brief requirements.

@ The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor	NSR	Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.		Noise	Comply with Noise Criteria or not
1/F	N-ind3	S1-1	Operating noise	94	1	94	273	273	-57	3	40	45	Yes
	N-ind3		Loading and unloading using forklift	91	2	94	308	308	-58	3	39	45	Yes
•	Total								Cumulat	ive Total <sup>@</sup> :	43	45	Yes

Only NSR locations that are within 300m radius from the identified industrial noise sources are included in the noise assessment as per Project Study Brief requirements.

@ The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor	NSR	Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.	,	Noise	Comply with Noise Criteria or not
1/F	N-ind3A	S1-1	Operating noise	94	1	94	331	331	-58	3	39	45	Yes
	N-ind3A		Loading and unloading using forklift	91	2	94	349	349	-59	3	38	45	Yes
	Total					·			Cumulat	ive Total <sup>@</sup> :	42	45	Yes

Only NSR locations that are within 300m radius from the identified industrial noise sources are included in the noise assessment as per Project Study Brief requirements.

@ The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

Appendix 4-7C - Sensitivity Test on Fixed Noise Sources (Worst Case Scenario) (Nighttime)

Floor		Noise Source ID			No. of Equipment	Total SWL,			Dist. Corr.,	Corr.		Noise	Comply with Noise Criteria or not
1/F	N-ind9	S1-1	Operating noise	94	1	94	268	268	-57	3	40	45	Yes
	N-ind9		Loading and unloading using forklift	91	2	94	341	341	-59	3	38	45	Yes
•	Total								Cumulat	ive Total <sup>@</sup> :	42	45	Yes

<sup>#</sup> Sound Power Level is based on site measurement during the operation of the concerned industrial plant.

<sup>@</sup> The cumulative noise level at the receiver point. Calculation is based on general acoustic principle using the equation = 10 x log ((L1/10)+(L2/10)+(L3/10)...+(Ln/10)); where, L1, L2, L3, Ln are the respective noise level at the receiver due to individual noise source.