

**Appendix 4-7B**  
Calculation of Industrial Noise Levels (Worst Case  
Scenario) (Daytime)

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

Floor	NSR	Noise Source ID	Industrial Activities	Sound Power Level (SWL), dB(A) #	No. of Equipment	Total SWL, dB(A)	Horizontal Distance from Source to Receiver (m)	Slant Dist. from Source to Receiver, m	Dist. Corr., dB(A)	Façade Corr. dB(A)	Un-mitigated Noise level, dB(A)	Noise Criteria	Comply with Noise Criteria or not
1/F	N-ind1	S1-1	Operating noise	94	1	94	252	252	-56	3	41	55	Yes
	N-ind1	S2-3	Loading and unloading using forklift	91	1	91	252	252	-56	3	38	55	Yes
	N-ind1	S2-1	Movement of Lorry	99	2	102	252	252	-56	3	49	55	Yes
	N-ind1	S2-2	Lifting of container by a mobile crane	97	1	97	252	252	-56	3	44	55	Yes
	N-ind1	S10-1	Loading and unloading using forklift	91	2	94	321	321	-58	3	39	55	Yes
	N-ind1	S10-2	Movement of lorry	99	3	104	321	321	-58	3	49	55	Yes
	<b>Total</b>									<b>Cumulative Total ®:</b>	<b>53</b>	55	Yes

**Note:**

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.

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

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

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Floor	NSR	Noise Source ID	Industrial Activities	Sound Power Level (SWL), dB(A) #	No. of Equipment	Total SWL, dB(A)	Horizontal Distance from Source to Receiver (m)	Slant Dist. from Source to Receiver, m	Dist. Corr., dB(A)	Façade Corr. dB(A)	Un-mitigated Noise level, dB(A)	Noise Criteria	Comply with Noise Criteria or not
1/F	N-ind2	S1-1	Operating noise	94	1	94	261	261	-56	3	41	55	Yes
	N-ind2	S2-3	Loading and unloading using forklift	91	1	91	261	261	-56	3	38	55	Yes
	N-ind2	S2-1	Movement of Lorry	99	2	102	261	261	-56	3	49	55	Yes
	N-ind2	S2-2	Lifting of container by a mobile crane	97	1	97	261	261	-56	3	44	55	Yes
	N-ind2	S10-1	Loading and unloading using forklift	91	2	94	316	316	-58	3	39	55	Yes
	N-ind2	S10-2	Movement of lorry	99	3	104	316	316	-58	3	49	55	Yes
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1/F	N-ind2A	S1-1	Operating noise	94	1	94	285	285	-57	3	40	55	Yes
	N-ind2A	S2-3	Loading and unloading using forklift	91	1	91	285	285	-57	3	37	55	Yes
	N-ind2A	S2-1	Movement of Lorry	99	2	102	285	285	-57	3	48	55	Yes
	N-ind2A	S2-2	Lifting of container by a mobile crane	97	1	97	285	285	-57	3	43	55	Yes
	N-ind2A	S10-1	Loading and unloading using forklift	91	2	94	343	343	-59	3	38	55	Yes
	N-ind2A	S10-2	Movement of lorry	99	3	104	343	343	-59	3	48	55	Yes
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1/F	N-ind2B	S1-1	Operating noise	94	1	94	251	251	-56	3	41	55	Yes
	N-ind2B	S2-3	Loading and unloading using forklift	91	1	91	251	251	-56	3	38	55	Yes
	N-ind2B	S2-1	Movement of Lorry	99	2	102	251	251	-56	3	49	55	Yes
	N-ind2B	S2-2	Lifting of container by a mobile crane	97	1	97	251	251	-56	3	44	55	Yes
	N-ind2B	S10-1	Loading and unloading using forklift	91	2	94	302	302	-58	3	39	55	Yes
	N-ind2B	S10-2	Movement of lorry	99	3	104	302	302	-58	3	49	55	Yes
	<b>Total</b>									<b>Cumulative Total @:</b>	<b>53</b>	55	Yes

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1/F	N-ind3	S1-1	Operating noise	94	1	94	273	273	-57	3	40	55	Yes
	N-ind3	S2-3	Loading and unloading using forklift	91	1	91	273	273	-57	3	37	55	Yes
	N-ind3	S2-1	Movement of Lorry	99	2	102	273	273	-57	3	48	55	Yes
	N-ind3	S2-2	Lifting of container by a mobile crane	97	1	97	273	273	-57	3	43	55	Yes
	N-ind3	S10-1	Loading and unloading using forklift	91	2	94	308	308	-58	3	39	55	Yes
	N-ind3	S10-2	Movement of lorry	99	3	104	308	308	-58	3	49	55	Yes
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1/F	N-ind3A	S1-1	Operating noise	94	1	94	331	331	-58	3	39	55	Yes
	N-ind3A	S2-3	Loading and unloading using forklift	91	1	91	331	331	-58	3	36	55	Yes
	N-ind3A	S2-1	Movement of Lorry	99	2	102	331	331	-58	3	47	55	Yes
	N-ind3A	S2-2	Lifting of container by a mobile crane	97	1	97	331	331	-58	3	42	55	Yes
	N-ind3A	S10-1	Loading and unloading using forklift	91	2	94	349	349	-59	3	38	55	Yes
	N-ind3A	S10-2	Movement of lorry	99	3	104	349	349	-59	3	48	55	Yes
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1/F	N-ind9	S1-1	Operating noise	94	1	94	268	268	-57	3	40	55	Yes
	N-ind9	S2-3	Loading and unloading using forklift	91	1	91	268	268	-57	3	37	55	Yes
	N-ind9	S2-1	Movement of Lorry	99	2	102	268	268	-57	3	48	55	Yes
	N-ind9	S2-2	Lifting of container by a mobile crane	97	1	97	268	268	-57	3	43	55	Yes
	N-ind9	S10-1	Loading and unloading using forklift	91	2	94	341	341	-59	3	38	55	Yes
	N-ind9	S10-2	Movement of lorry	99	3	104	341	341	-59	3	48	55	Yes
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