SSS Calculation a	S Calculation at NSR SS11a			Mitig	ated	Bai	rier height (m)=	5.5											
		Ground					3 (*)						1						
NSR	No. of	Level	Hr	ASR															
SS11a																			
3311a	Storey 2	mPD 15	m 4.5	В															
		13	4.5																
Loco launch / Arrive	NIGHT				Remark: p	lus 10loa(2) is for converting	a of Lea(30min)	to Leg(1	hr).									
						At NSR,	,		10 10 4(,.								At NSR, incl fa	
					for 30min	no shield												çade	
	_												_	_			Wheel		
	Segment	Hor D	Angle		SEL	Leq	Shield	Track Level	Hb	Dsb	Dbr	Hs	D	Р	A barrier	IL barrier	Squeal	Leq, night	Shadow zone?
1	4	m	Deg	15m 85	NSR	NSR	IMPD DId-	mPD	m	m 40	m	m	m 50.0	m 1.8	45.0	45.0	dB 0	05.0	
Loco	1	50	10	85	70.2	37.6	IMPD Bldg	15 15	9.35	42 28	8	3	50.0	0.1	15.0 8.7	15.0 8.7	0	25.6 30.3	Yes Yes
	2a 2b	50 59	6.9 9	85	68.6 69.1	36.0 36.5	Barrier Barrier	15 15	5.5 5.5	37	22	3	50.0 59.0	0.1	7.7	7.7	6	30.3	Yes
	20 2c	85	33.9	85	73.2	40.6	Barrier	15	5.5 5.5	55	22 30	3	85.0	0.1	6.3	6.3	6	43.4	Yes
	3a	85	65.2	85	76.1	43.5	Loco Shed	15	9.45	53	32	3	85.0	0.1	15.0	15.0	0	31.5	Yes
	3b	_ 85	8.9	85	67.4	34.8	Loco Shed	15	9.45	53	32	3	85.0	0.8	15.0	15.0	6	28.8	Yes
	36	00	0.5				eters and remark					-			15.0	13.0		20.0	163
				Roman	. i oi iogoni	or parame	ters and remain	l lor equations, j	10000 10		DOMOIII (эг эргоо	doneer o						
	At NSR, incl fa	ncade																	
		Night time Noise criteria																	
	J	Leq,																	
	Leq	ASR	night	Status		Lmax		Lmax											
	Total					15m	Hor D	NSR											
	44.9	В	50	OK		86	48	70.2	near trad	ck									
						86	85			with curv	/e								
								73.7	Total										
									1	-			+					+	
	Legend:							Domark for E	unation -				+					+	
								Remark for Equations:											
	Hr: Height of highest floor at receiver Hor D: Horizontal distance							(1): distance attenuation and angle of view adjustment. plus 10log(2) is for one set of works train having a loco car at two						t two ends					
	Angle: Angle of View						(2): SEL conversion to Leq: Leq = SEL + 10 log V -35.6 ref: FTA 0							Manual Table	5-2 Rail vehicle	a ·	+		
	Hb: Height of barrier or shield						plus 10log(2) is to convert Leq(30min) to Leq(1hr).					. IA Guidance	ivianual rable	J-Z IVAII VEHICIE	,	1			
	Dsb: Horizontal distance from noise source to				o barrier			(3): Barrier effect, ref: FTA Guidance Manual, Table 6-9.											
			om barrier to receiver					(- /		the direct path ray is under shadow zone of sh					of shielding.			1	
	Hs: Height of noise source						(5): Loco distance adjustment: 20 log (D1/D2) adjusted to point source.							,-					
	D: Direct path						(6): Direction correction factor for angle between shed exit direction to N							R or direction c	orrection for roc	of louvre to N	SR.		
	P: Path differe	nce=Shielde	ed path -	D					uation for calculating sound pressure from so										
	A barrier: Barrier attenuation (dB)						, , ,												
	IL barrier: Barrier loss (dB)						İ												