

Calculation of Forest Land (Bawal)

Block Section	Village	Structure	Pocket Name	Shape Considered	Length (m) L1 L2	Height (m) H	Area (sqm) $A = 0.5 \cdot H \cdot (L1 + L2)$	Area(ha)	Area(acres)	
Rewari-Bawal	Asahwas	Viaduct	I	Trapezium	8.0	10.0	90.00	0.091	0.22	
Rewari-Bawal	Asahwas	Viaduct	II	Trapezium	10.0	9.6	116.20	0.114	0.28	
Rewari-Bawal	Asahwas	Viaduct	III	Trapezium	9.6	9.7	95.1	0.092	0.23	
Rewari-Bawal	Asahwas	Viaduct	IV	Trapezium	9.7	7.0	74.6	0.053	0.16	
Rewari-Bawal	Asahwas	Viaduct	V	Trapezium	7.0	10.0	261	0.222	0.56	
Rewari-Bawal	Asahwas	Viaduct	VI	Trapezium	10.0	8.0	49.3	0.045	0.11	
Rewari-Bawal	Asahwas	Viaduct	VII	Trapezium	11.4	11.2	135.3	0.153	0.38	
Rewari-Bawal	Asahwas	Viaduct	VIII	Trapezium	11.2	10.0	105.5	0.112	0.28	
Rewari-Bawal	Asahwas	Viaduct	IX	Trapezium	45.4	32.8	10	0.040	0.10	
Rewari-Bawal	Asahwas	Viaduct	X	Trapezium	121.1	108.8	9.6	0.111	0.27	
Rewari-Bawal	Suthama	Viaduct	XI	Trapezium	115.1	104.7	9.5	0.105	0.26	
Rewari-Bawal	Jallawas	Viaduct	XII	Trapezium	161.1	171.1	10	0.057	0.41	
Rewari-Bawal	Jallawas	Viaduct	XIII	Trapezium	10.0	10.9	190.7	0.200	0.40	
Rewari-Bawal	Jallawas	Viaduct	XIV	Trapezium	148	127.9	10.9	0.151	0.37	
Rewari-Bawal	Jallawas	Viaduct	XV	Rectangle	141.1	11.1		0.157	0.39	
Rewari-Bawal	Jallawas	Viaduct	XVI	Trapezium	11.1	10.3	26.5	0.029	0.07	
Rewari-Bawal	Jallawas	Viaduct	XVII	Rectangle	10.3	326.1		0.335	0.83	
Rewari-Bawal	Jallawas	Viaduct	XVIII	Trapezium	10.3	9.9	175.9	0.178	0.44	
Rewari-Bawal	Jallawas	Viaduct	XIX	Trapezium	10.3	9.9	175.3	0.178	0.44	
Rewari-Bawal	Jallawas	Viaduct	XX	Trapezium	328	351	10.3	0.356	0.90	
Rewari-Bawal	Chirhara	Viaduct	XXI	Trapezium	62.4	54.8	9.1	0.054	0.13	
Rewari-Bawal	Chirhara	Viaduct	XXII	Trapezium	9.1	7.6	47.1	0.040	0.10	
Rewari-Bawal	Chirhara	Viaduct	XXIII	Trapezium	12.7	7.6	66.8	0.068	0.17	
Bawal Station	Chirhara	Station	XXIV	Trapezium	12.7	16.1	129.8	0.187	0.46	
Bawal Station	Chirhara	Station	XXV	Rectangle	12.7	123.5		0.157	0.39	
Bawal Station	Chirhara	Station	XXVI	Trapezium	12.7	14.1	215.5	0.289	0.71	
Bawal Station	Chirhara	Station	XXVII	Trapezium	7.3	8.9	112.6	0.092	0.23	
Bawal Station	Chirhara	Station	XXVIII	Rectangle	53.7	10.6		0.057	0.14	
Bawal Station	Chirhara	Station	XXIX	Rectangle	30	43.6		0.131	0.32	
Bawal Station	Chirhara	Station	XXX	Trapezium	30	5.8	32.2	0.058	0.14	
Bawal Station	Chirhara	Station	XXXI	Trapezium	122	102.6	14.5	0.163	0.40	
Bawal Station	Chirhara	Station	XXXII	Rectangle	428.5	20.2		0.865	2.14	
Bawal-Rewari	Chirhara	Viaduct	XXXIII	Trapezium	18.1	17.7	151.8	0.272	0.67	
Bawal-Rewari	Chirhara	Viaduct	XXXIV	Trapezium	17.7	17	41.9	0.073	0.18	
Bawal-Rewari	Chirhara	Viaduct	XXXV	Trapezium	11.3	17	93.7	0.133	0.33	
Bawal-Rewari	Chirhara	Viaduct	XXXVI	Trapezium	91.6	82	11.3	0.090	0.24	
Bawal-Rewari	Rudh	Viaduct	XXXVII	Trapezium	148	158	12.1	0.186	0.46	
Bawal-Rewari	Rudh	Viaduct	XXXVIII	Trapezium	8.1	12.1	188.6	0.191	0.47	
Bawal-Rewari	Rudh	Viaduct	XXXIX	Trapezium	8.1	6.8	79	0.059	0.15	
Bawal-Rewari	Rudh	Viaduct	XI	Trapezium	7.3	6.8	131.4	0.093	0.23	
Bawal-Rewari	Rudh	Viaduct	XII	Trapezium	32.3	26.1	8.6	0.026	0.06	
Bawal-Rewari	Rudh	Viaduct	XIII	Trapezium	8.6	11	21.2	0.021	0.05	
Bawal-Rewari	Rudh	Viaduct	XIIII	Trapezium	11	14	13.4	0.017	0.04	
Bawal-Rewari	Rudh	Viaduct	XLIIV	Trapezium	582	599.1	14	0.827	2.04	
Total							7.07	17.47		

RRTS Elevated Alignment RoW

FOREST LAND REQUIREMENT

TOTAL (Bawal) 7.07 Ha

Note: All Dimensions in meters

ncrtc NATIONAL CAPITAL REGION TRANSPORT CORPORATION

PROJECT: IMPLEMENTATION OF SKK-SNB REGIONAL RAPID TRANSIT SYSTEM (RRTS) CORRIDOR

DRAWING TITLE: PROPOSED FOREST AREA AT BAWAL

DRAWING NUMBER: REV R0

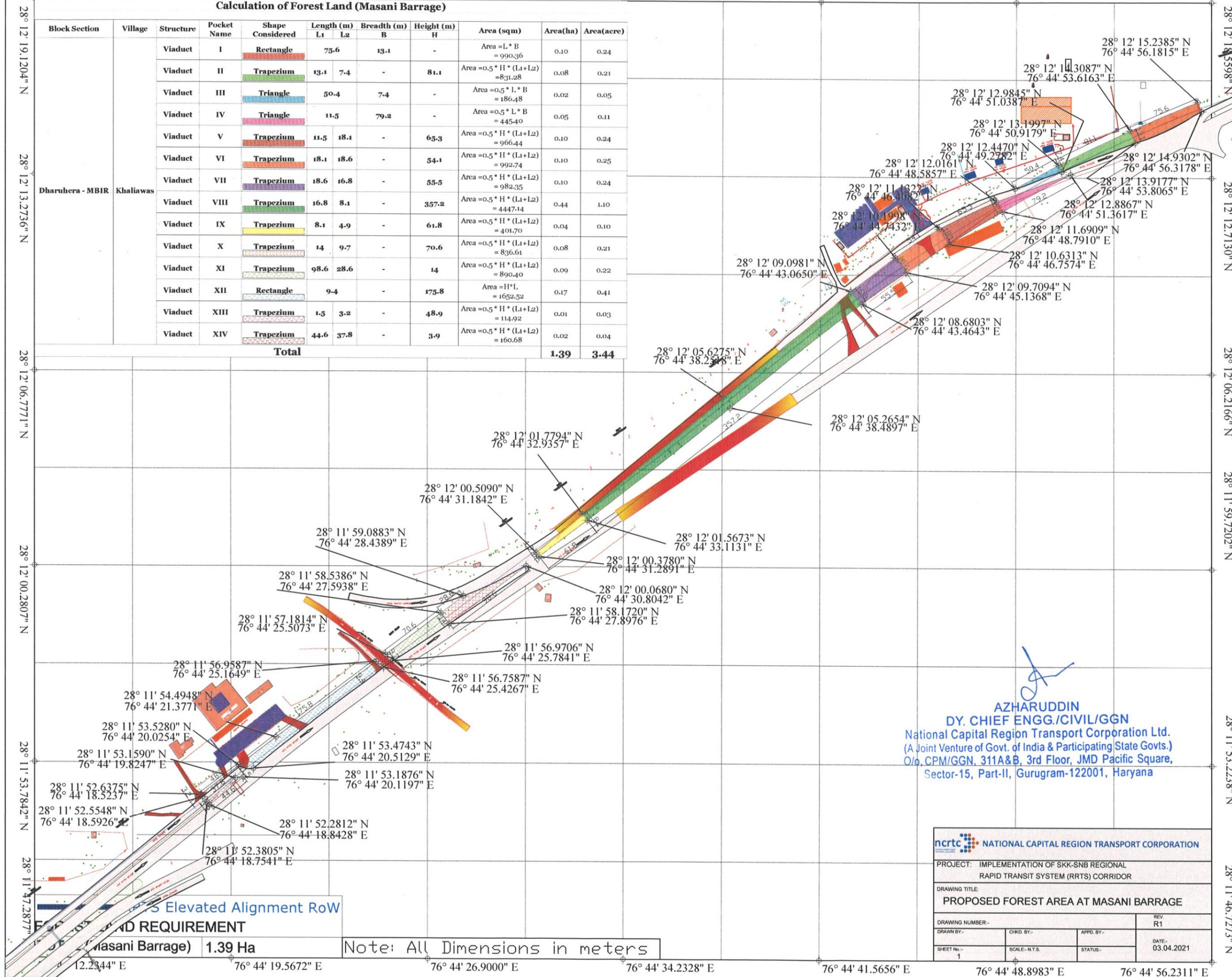
DRAWN BY:-	CHKD. BY:-	APPD. BY:-	DATE:- 16.01.2021
SHEET NO:- 1	SCALE:- N.T.S.	STATUS:-	

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76° 44' 12.7493" E 76° 44' 20.3853" E 76° 44' 27.4161" E 76° 44' 34.7495" E 76° 44' 42.0828" E 76° 44' 49.4162" E 76° 44' 56.7496" E

Calculation of Forest Land (Masani Barrage)

Block Section	Village	Structure	Pocket Name	Shape Considered	Length (m) L1 L2	Breadth (m) B	Height (m) H	Area (sqm)	Area (ha)	Area (acre)
Dharuhera - MBIR	Khaliawas	Viaduct	I	Rectangle	75.6	13.1	-	Area = L * B = 990.36	0.10	0.24
		Viaduct	II	Trapezium	13.1 7.4	-	81.1	Area = 0.5 * H * (L1+L2) = 831.28	0.08	0.21
		Viaduct	III	Triangle	50.4	7.4	-	Area = 0.5 * L * B = 186.48	0.02	0.05
		Viaduct	IV	Triangle	11.5	79.2	-	Area = 0.5 * L * B = 445.40	0.05	0.11
		Viaduct	V	Trapezium	11.5 18.1	-	65.3	Area = 0.5 * H * (L1+L2) = 966.44	0.10	0.24
		Viaduct	VI	Trapezium	18.1 18.6	-	54.1	Area = 0.5 * H * (L1+L2) = 992.74	0.10	0.25
		Viaduct	VII	Trapezium	18.6 16.8	-	55.5	Area = 0.5 * H * (L1+L2) = 982.35	0.10	0.24
		Viaduct	VIII	Trapezium	16.8 8.1	-	357.2	Area = 0.5 * H * (L1+L2) = 4447.14	0.44	1.10
		Viaduct	IX	Trapezium	8.1 4.9	-	61.8	Area = 0.5 * H * (L1+L2) = 401.70	0.04	0.10
		Viaduct	X	Trapezium	14 9.7	-	70.6	Area = 0.5 * H * (L1+L2) = 836.61	0.08	0.21
		Viaduct	XI	Trapezium	98.6 28.6	-	14	Area = 0.5 * H * (L1+L2) = 890.40	0.09	0.22
		Viaduct	XII	Rectangle	9.4	-	175.8	Area = H * L = 1652.52	0.17	0.41
		Viaduct	XIII	Trapezium	1.5 3.2	-	48.9	Area = 0.5 * H * (L1+L2) = 114.92	0.01	0.03
		Viaduct	XIV	Trapezium	44.6 37.8	-	3.9	Area = 0.5 * H * (L1+L2) = 160.68	0.02	0.04
Total								1.39	3.44	



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NATIONAL CAPITAL REGION TRANSPORT CORPORATION			
PROJECT: IMPLEMENTATION OF SKK-SNB REGIONAL RAPID TRANSIT SYSTEM (RRTS) CORRIDOR			
DRAWING TITLE: PROPOSED FOREST AREA AT MASANI BARRAGE			
DRAWING NUMBER:-			REV R1
DRAWN BY:-	CHKD. BY:-	APPD. BY:-	DATE:- 03.04.2021
SHEET No:- 1	SCALE:- N.T.S.	STATUS:-	

Proposed Forest Area Requirement
 (Masani Barrage) **1.39 Ha**

Note: All Dimensions in meters

12.2344" E 76° 44' 19.5672" E 76° 44' 26.9000" E 76° 44' 34.2328" E 76° 44' 41.5656" E 76° 44' 48.8983" E 76° 44' 56.2311" E