

Appendix-2

Alignment Layout Plan

IP Angle, Distance between IP											Coordinate of Key Points										
Line name : Design Center Line											Line Name : Design Center Line										
IP No	PI Station	Northing	Easting	Distance Between IP	Tangent Angle	Transition Curve Length 1	I A	Transition Curve Length 2	Curve Radius		No.	IP Name	Key Point Name	Chainage	Northing	Easting	Beginning Radius	Transition Curve Length	End Radius	Length of Alignment Elements	Tangent Angle
IP.45	38K271m260	931891.6052	692443.3809			0.0000	18° 06' 27.8814" (R)	0.0000	1000.0000		50	IP.45	BC	38K111m912	931885.057	692295.984	1000.0000		1000.0000	316.0400	67° 40' 04.09"
				1,540.032m	N85° 46' 31.98"E								EC	38K427m952	9318923.343	692602.296	0.0000	0.0000	1267.0260	85° 46' 31.98"	
IP.46	39K808m635	9319025.0498	693979.2292			0.0000	16° 10' 19.5960" (R)	0.0000	800.0000		51	IP.46	BC	39K694m977	9319016.677	693865.880	800.0000		800.0000	225.8050	85° 46' 31.98"
				1,130.575m	S78° 03' 08.43"E								EC	39K920m783	9319001.521	694090.425	0.0000	0.0000	984.9630	78° 03' 08.43"	
IP.47	40K937m699	9318791.0004	695085.3125			0.0000	03° 39' 37.3593" (L)	0.0000	1000.0000		52	IP.47	BC	40K905m745	9318797.615	695054.051	-1000.0000		-1000.0000	63.8860	78° 03' 08.43"
				594.119m	S81° 42' 45.79"E								EC	40K969m631	9318786.395	695116.933	0.0000	0.0000	493.7590	81° 42' 45.7872"	
IP.48	41K5331m797	9318705.3662	695673.2278			0.0000	13° 00' 30.6538" (R)	0.0000	600.0000		53	IP.48	BC	41K463m39	9318743.470	695411.629	600.0000		600.0000	136.2250	81° 42' 45.7872"
				1,303.251m	S68° 42' 15.13"E								EC	41K559m615	9318680.522	695736.963	0.0000	0.0000	1180.7620	68° 42' 15.1334"	
IP.49	42K834m460	9318232.0476	696887.4903			0.0000	24° 24' 48.0125 (L)	0.0000	250.0000		54	IP.49	BC	42K780m377	9318251.689	696837.101	250.0000		250.0000	106.5230	68° 42' 15.1334"
				184.953m	N86° 52' 56.85"E								EC	42K886m601	9318235.001	696941.712	0.0000	0.0000	91.3800	86° 52' 56.8541"	
IP.50	43K017m772	9318242.1062	697072.1699			0.0000	14° 59' 53.0930" (R)	0.0000	300.0000		55	IP.50	BC	42K978m281	9318239.959	697032.738	300.0000		300.0000	78.5300	86° 52' 56.8541"
				451.634m	S78° 07' 10.05"E								EC	43K056m811	9318233.976	697110.815	0.0000	0.0000	360.8000	78° 07' 10.05"	
IP.51	43K468m954	9318149.1275	697514.1293			0.0000	19° 25' 24.9626" (R)	0.0000	300.0000		56	IP.51	BC	43K417m610	9318159.698	697463.886	300.0000		300.0000	101.7020	78° 07' 10.05"
				165.419m	S58° 41' 45.10"E								EC	43K519m312	9318122.450	697557.998	0.0000	0.0000	60.7830	58° 41' 45.10"	
IP.52	43K633m388	9318063.1788	697655.4672			0.0000	20° 08' 46.2617" (L)	0.0000	300.0000		57	IP.52	BC	43K580m095	9318090.869	697609.933	-300.0000		-300.0000	105.4850	58° 41' 45.10"
				138.892m	S78° 50' 31.36"E								EC	43K685m580	9318052.866	697707.753	0.0000	0.0000	45.9740	78° 50' 31.36"	
IP.53	43K771m18	9318036.3011	697791.7338			0.0000	15° 02' 54.8327" (L)	0.0000	300.0000		58	IP.53	BC	43K731m554	9318043.969	697752.858	-300.0000		-300.0000	78.7940	78° 50' 31.36"
				1,319.436m	N86° 02' 36.99"E								EC	43K810m349	9318038.990	697831.268	0.0000	0.0000	1203.3650	86° 06' 33.81"	
IP.54	45K090m174	9318127.3386	699108.0259			0.0000	04° 51' 50.7845" (R)	0.0000	1800.232		59	IP.54	BC	45K013m713	9318120.640	699031.859	1800.232		1800.232	152.8300	86° 06' 33.81"
				566.054m	N89° 58' 44.44"E								EC	45K166m543	9318127.554	699184.487	0.0000	0.0000	466.9060	89° 59' 56.3390"	
IP.55	45K656m136	9318127.5459	699674.0797			0.0000	12° 56' 37.1892" (R)	0.0000	200.0000		60	IP.55	BC	45K633m449	9318127.546	699651.392	200.0000		200.0000	45.1820	89° 59' 56.3390"
				101.698m	S77° 03' 20.98"E								EC	45K678m631	9318122.464	699696.191	0.0000	0.0000	41.9180	77° 03' 20.9837"	
IP.56	45K757m642	9318104.7653	699773.1939			0.0000	16° 52' 44.8718" (L)	0.0000	250.0000		61	IP.56	BC	45K720m548	9318113.074	699737.043	-250.0000		-250.0000	73.6490	77° 03' 20.98"
				572.202m	N86° 03' 54.14"E								EC	45K794m198	9318107.311	699810.200	0.0000	0.0000	347.5470	86° 03' 54.14"	
IP.57	46K329m306	9318144.0321	700344.0470			0.0000	89° 15' 35.8904" (R)	0.0000	190.0000		62	IP.57	BC	46K141m745	9318131.161	700156.927	190.0000		190.0000	295.9970	86° 03' 54.14"
				700.023m	S4° 40' 29.97"E								EC	46K437m742	9317957.094	700355.334	0.0000	0.0000	429.4120	4° 40' 29.97"	
IP.58	46K950m203	9317446.3379	700401.1013			0.0000	09° 29' 41.7573" (L)	0.0000	1000.0000		63	IP.58	BC	46K686m754	9317529.111	700394.332	-1000.0000		-1000.0000	165.7180	4° 40' 29.97"
				1,075.378m	S14° 10' 11.72"E								EC	47K022m872	9317365.816	700421.432	0.0000	0.0000	844.6670	14° 10' 11.72"	
IP.59	48K025.m201	9316403.6797	700664.3520			0.0000	72° 52' 39.1969" (L)	0.0000	200.0000		64	IP.59	BC	47K877m539	9316546.849	700628.295	-200.0000		-200.0000	254.3910	14° 10' 11.72"
				253.580m	S87° 02' 50.92"E								EC	48K131m930	9316396.074	700811.818	0.0000	0.0000	44.7260	87° 02' 50.92"	
IP.60	48K237m847	9316390.6182	700917.5957			0.0000	23° 03' 26.9673" (R)	0.0000	300.0000		65	IP.60	BC	48K176m556	9316393.770	700856.485	300.0000		300.0000	120.7290	87° 02' 50.92"
				119.387m	S63° 59' 23.95"E								EC	48K257m384	9316363.784	700972.590	0.0000	0.0000	32.5090	63° 59' 23.95"	
IP.61	48K355m579	9316338.2639	701024.8905			0.0000	09° 47' 13.8425" (L)	0.0000	300.0000		66	IP.61	BC	48K329m893	9316349.528	701001.807	-300.0000		-300.0000	51.2460	63° 59' 23.95"
				559.418m	S73° 46' 37.79"E								EC	48K381m139	93163						