ANGLE POINT NO.	DEVIATION ANGLE	SEC. LENGTH (m)	LATITUDE (D.M.S)	LONGITUDE (D.M.S)	ANGLE POINT NO.	DEVIATION ANGLE	SEC. LENGTH (m)	LATITUDE (D.M.S)	LONGITUDE (D.M.S)
Gua(Km 0.08)	44°49'20"	0	22,55,59.751	85,58,51.158	AP49	12°20'50"L/TR	645	22,18,54.591	85,8'.35.8
AP	1° 00' 52"L/B	92	22,55,59.276	85,58,50.729	AP50	1°5'55"R/B	629	22,18,1.839	85,8'.50.845
AP0	17°00' 18"L/B	41	22,55,58.32	85,58,29.749	AP51	1°8'20"B	1629	22,17,24.840	85,8'.1.528
AP1	00°00' 00"	23	22,55,57.556	85,58,28.613	AP51A	12°44'21"B	1053	22,16,41.147	85,8'.48.211
AP2	00°00' 00"	27	22,55,56.617	85,58,26.648	AP52	4°15'24"B	584	22,16,11.90	85,8'.10.211
AP3	50°50' 00"B	53	22,55,55.693	85,58,26.515	AP53	5°04'46"B	1204	22,16,1.845	85,58,58.799
AP3	58°04' 24"RB	132	22,55,52.848	85,58,23.237	AP53A	5°10'08"B	1866	22,15,55.640	85,58,9.58
AP3A	00°00' 00"	44	22,55,52.865	85,58,22.488	AP53B	4°18'13"B	293	22,15,52.65	85,58,18.109
AP3B	00°00' 00"	50	22,55,52.495	85,58,24.484	AP54	1°50'54"B	671	22,15,33.58	85,58,42.285
AP3C	00°00' 00"RB	111	22,55,51.8	85,58,20.875	AP55	15°55'57"RB	1214	22,14,53.155	85,58,22.157
AP4	48°-06' 56"RB	698	22,55,47.651	85,58,56.005	AP56	12°07'01"RB	1665	22,14,35.1	85,57,58.953
AP5	00°00' 00"	1,0	22,55,47.839	85,58,52.714	AP57	12°42'40"RB	1657	22,14,24.221	85,56,42.280
AP6	00°00' 00"	92	22,55,48.029	85,58,51.498	AP58	21°04'-4"RB	872	22,14,24.4	85,56,16.1 .804
AP7	14°-34' 56"-R	1,0	22,55,48.1	85,58,49.419	AP59	15°57'06"-R	1,0	22,14,1.199	85,56,14.1 .0
AP7	13°-27' 21"-R	200	22,55,47.396	85,58,40.217	AP60	1°10'13"-R	1609	22,14,12.389	85,54,42.837
AP8	20°-00' 00"-R	578	22,55,45.5	85,58,21.122	AP61	12°25'50"-R	2626	22,14,58.193	85,53,12.1 .28
AP9	00°00' 00"	105	22,55,37.267	85,58,20.028	AP61A	15°04'13"-R	314	22,14,24.063	85,53,3.741
AP10	00°00' 00"	50	22,55,35.618	85,58,18.404	AP61B	15°04'13"-R	1,0	22,14,5.101	85,53,50.947
AP11	05°-00' 14"R	1,5	22,55,33.368	85,58,16.148	AP62	12°28'50"-R	671	22,14,27.804	85,53,37.668
AP12	56°-18' 00"RB	555	22,55,32.1	85,58,15.851	AP63	12°46'50"RB	1557	22,13,53.141	85,51,18.175
AP13	00°-42' 00"-R	238	22,55,30.561	85,58,54.642	AP63A	13°04'18"-R	2523	22,12,57.6	85,50,16.178
AP14	15°-22' 00"-R	1,193	22,55,11.26	85,58,24.1	AP63B	13°04'18"RB	951	22,13,11.9	85,50,44.1
AP15	39°-00' 00"-R	428	22,55,0.0.7	85,57,45.231	AP64	29°30' 51"R	825	22,12,24.41	85,28,6.1 .432
AP16	28°-13' 07"RB	508	22,54,54.67	85,57,26.522	AP65	12°-0.1' 00"RB	2542	22,11,3.149	85,25,1.1 .896
AP17	33°-02' 41"-R	303	22,54,49.734	85,57,2.181	AP66	15°-16' 18"-R	1,509	22,10,9.807	85,17,36.644
AP18	00°-00' 00"-R	178	22,54,31.1.6	85,56,42.31	AP67	30°-16' 40"-R	1,365	22,1,8.899	85,16,1.1 .0
AP19	15°-10' 21"-R	526	22,54,20.677	85,56,28.497	AP68	9°-34' 43"-RB	87	22,1,7.878	85,24,27.863
AP20	38°-51' 21"RB	1,553	22,54,0.199	85,56,1.855	AP69	38°-4.' 50"-L	1,1	22,1,1.2.1	85,24,1.1 .21.5
AP21	2°-30' 41"-R	3,1.5	22,53,15.087	85,51,42.166	AP70	28°-25' 13"RB	912	22,1,43.791	85,24,2.1 .647
AP22	23°-01' 41"-R	2222	22,52,46.818	85,49,40.1	AP71	27°-1.' 47"-R	298	22,1,39.35	85,24,2.1 .526
AP23	15°-00' 00"-R	1,1	22,52,36.4	85,49,26.738	AP72	18°-00' 14"RB	688	22,1,29.651	85,24,5.1 .63
AP24	39°-47' 47"RB	549	22,52,3.189	85,49,2.9	AP73	10°-08' 21"RB	1,1	22,1,1.4.9	85,24,5.1 .914
AP25	6°-00' 00"-R	1875	22,5.,0.8.1	85,45,53.625	AP74	9°-04' 51"RB	91	22,1,1.8.8	85,24,40.24.
AP26	08°-04' 14"RB	1,0.8	22,50,37.87	85,43,53.146	AP75	19°-35' 42"RB	1,025	22,1,0.2.260	85,25,1.1 .40
AP27	17°-0' 00"-R	672	22,50,1.1.904	85,43,40.2.4	AP76	2°-40' 00"-L	1,0.0	22,0,49.6.9	85,24,38.1 .189
AP27A	62°5.' 17"-R	1,0.2	22,49,43.818	85,43,55.612	AP77	48°-21' 37"-L	344	22,0,43.334	85,24,28.221.
AP28	36°-50' 09"-R	2,661	22,49,.8.1.8	85,44,.4.107	AP78	10°-08' 21"-R	503	22,0,32.843	85,24,4.1 .189
AP29	24°-08' 57"-R	2,676	22,7,2.776	85,43,54.407	AP79	0°-1.' 21"RB	265	22,0,27.181	85,24,17.499
AP30	1°-00' 00"-R	1,089	22,0,8.776	85,43,44.1.8	AP80	50°-50' 40"-R	80	22,0,26.2	85,24,14.1 .5
AP31	53°-39' 47"RB	553	21,59,57.776	85,43,36.791	AP81	48°-08' 54"-L	47	22,0,24.8	85,24,5.971
AP32	64°-20' 00"RB	1,028	21,59,24.12	85,43,23.724	AP82	37°-10' 20"-R	208	22,0,22.149	85,23,57.789
AP33	18°-24' 57"-R	10.9	22,58,56.148	85,43,8.431	AP83	36°-20' 50"-L	336	22,0,12.759	85,23,5.1 .866
AP34	38°-00' 51"-R	1,1.1	22,58,23.51	85,43,36.1.8	AP84	67°-16' 21"RB	335	22,0,1.8.7	85,23,2.1 .39
AP35	56°-28' 40"-R	572	22,57,58.8	85,43,50.215	AP85	42°-03' 49"RB	608	22,8,54.697	85,23,27.8.9
AP36	19°-50' 40"RB	498	22,57,45.104	85,43,34.1.5	AP86	34°-14' 49"RB	278	22,8,41.0.1	85,23,18.4.28
AP37	00°-00' 00"RB	1,925	22,57,2.558	85,43,18.248	AP87	30°-06' 16"RB	614	22,8,.5.2.8	85,23,2.623
AP38	06°-4.' 40"-R	242	22,56,48.83	85,43,16.277	AP88	50°-00' 16"R	185	22,0,28.889	85,23,37.782
AP39	82°-52' 56"-R	108	22,57,47.77	85,43,1.708	AP89	39°-8' 40"RB	285	22,1,8.657	85,22,68.68
AP40	50°-50' 13"RB	888	22,57,3.518	85,42,38.183	AP90	60°-50' 33"RB	5.5	22,1,8.428	85,22,3.1 .464
AP41	2°-.8' 38"-R	13.5	22,2,42.5.2	85,42,1.058	AP91	22°-1' 45"-R	367	22,1,28.863	85,22,68.58
AP42	15°54' 40"RB	1,535	22,59,58.517	85,41,.5.1	AP92	50°-18' 40"-R	398	22,1,38.069	85,21,98.893
AP42A	15°58' 29"-R	140	22,59,48.514	85,41,4.768	AP93	9°-18' 1"-R	380	22,1,47.18	85,22,52.587
AP43	42°-1.' 47"RB	665	22,59,35.516	85,40,8.1.4	AP94	38°-18' 54"-R	185	22,1,.5.5.8	85,22,68.588
AP44	01°57' 48"RB	682	22,20.1.665	85,4.,40.971	AP95	20°-2' 28"RB	225	22,1,18.881	85,22,8.1 .12
AP45	50°22' 24"-R	212	22,20.8.914	85,4.,31.779	AP96	50°-1.' 50"RB	268	22,1,8.179	85,22,82.25
AP46	37°54' 46"-R	323	22,19,59.648	85,4.,35.08	AP96	50°-06' 1"RB	81	22,1,2.4.81	85,22,82.935
AP47	50°6.' 17"RB	140	22,19,49.248	85,4.,37.687	AP97	2°-1' 14"RB	255	22,1,2.0.97	85,22,8.1 .1.5
AP48	61°50' 00"-L	1045	22,18,.1.49	85,4.,35.762	SF-GLA	60°-00' 00"	52	22,13,25.756	85,17,68.806

LEGEND

PROPOSE ROUTE-1	
ROUTE-2	
ROUTE-3	
FOREST AS PFC	
BEE LINE	
Power Line (132KV & Above)	
AIRPORT AREA- 5KM.	

ROUTE NO.	LENGTH (Km)	FOREST (Km)
ROUTE-1	84.165	11.290
ROUTE-2	88.074	40.824
ROUTE-3	93.002	17.308

Scale = 1:50,000 | DWG NO.:CG-01/1

Title :

ROUTE DRAWING FOR 220kV D/C CHAIBASA-GUA T/L

Client :

JHARKHAND URJA SANCHARAN NIGAM LTD.

Contractor:

A2Z INFRA ENGINEERING LTD.
(Previously Known as A2Z Ma Intenance & Eng. Services Ltd.)

Checked By:

Approved By:

Surveyed By:

AKSHAT SURVEY & ENGINEERING CONSULTANTS
H.NO. 21A, Gali No. 23, (Near Kamal Hospital)
Molarband Extn., Badarpur
New Delhi - 110044, Tel.: 011-65393729, 9868033972
email: akshat_survey@rediffmail.com

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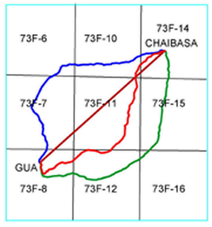
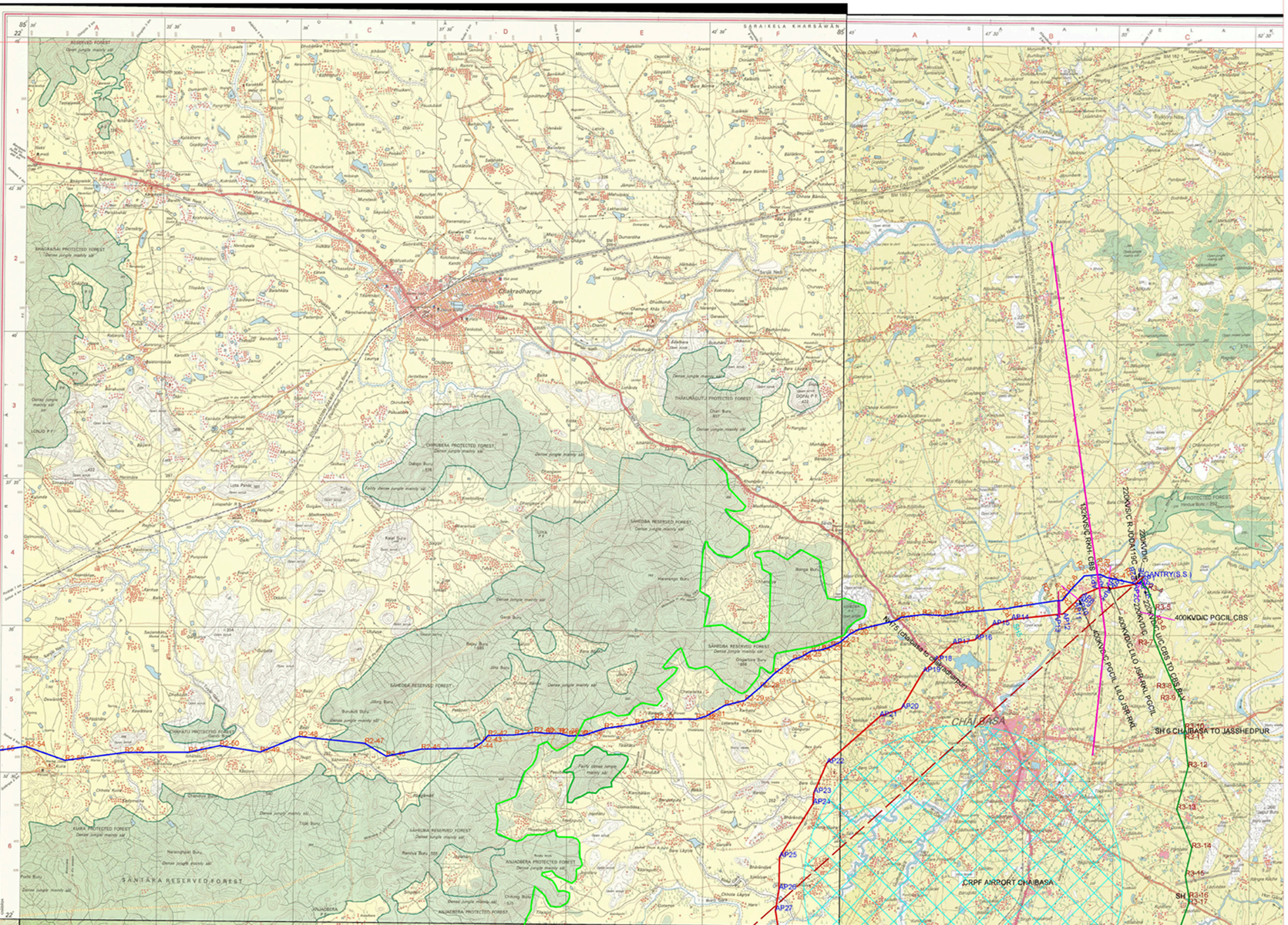
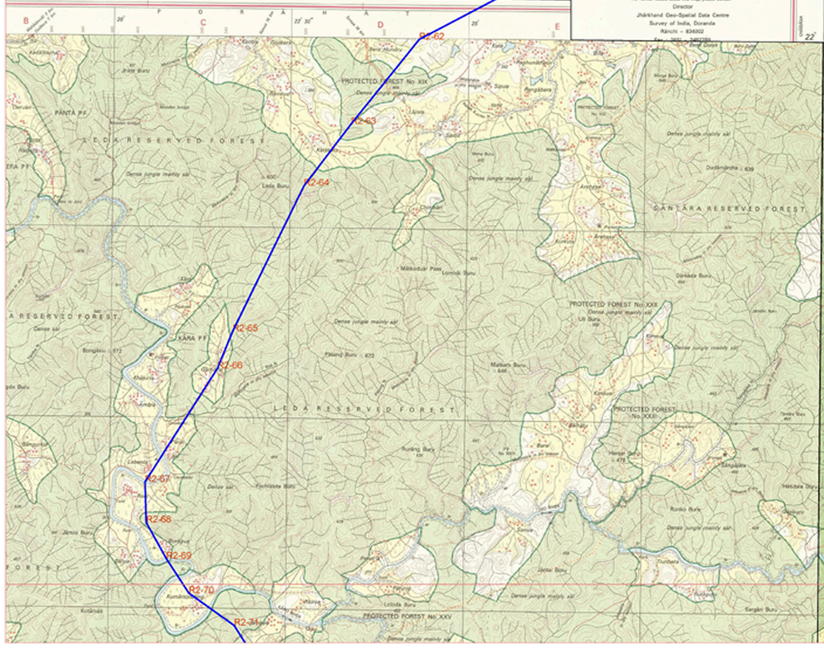
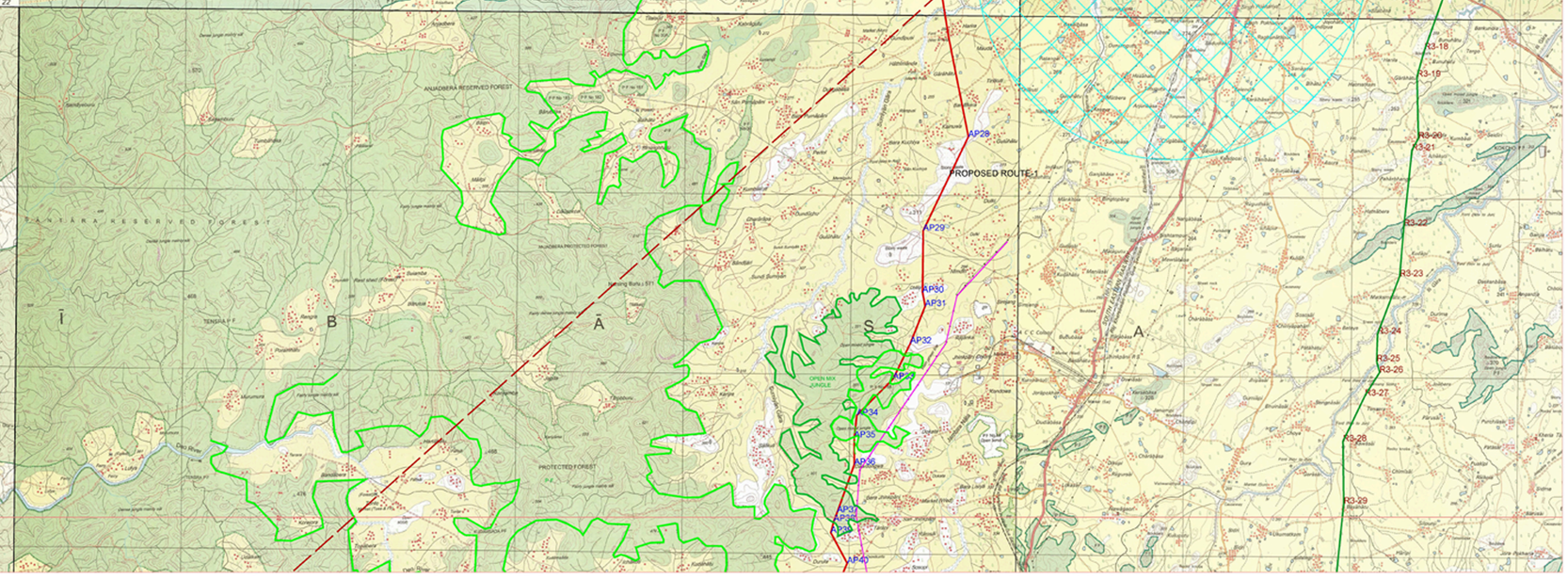
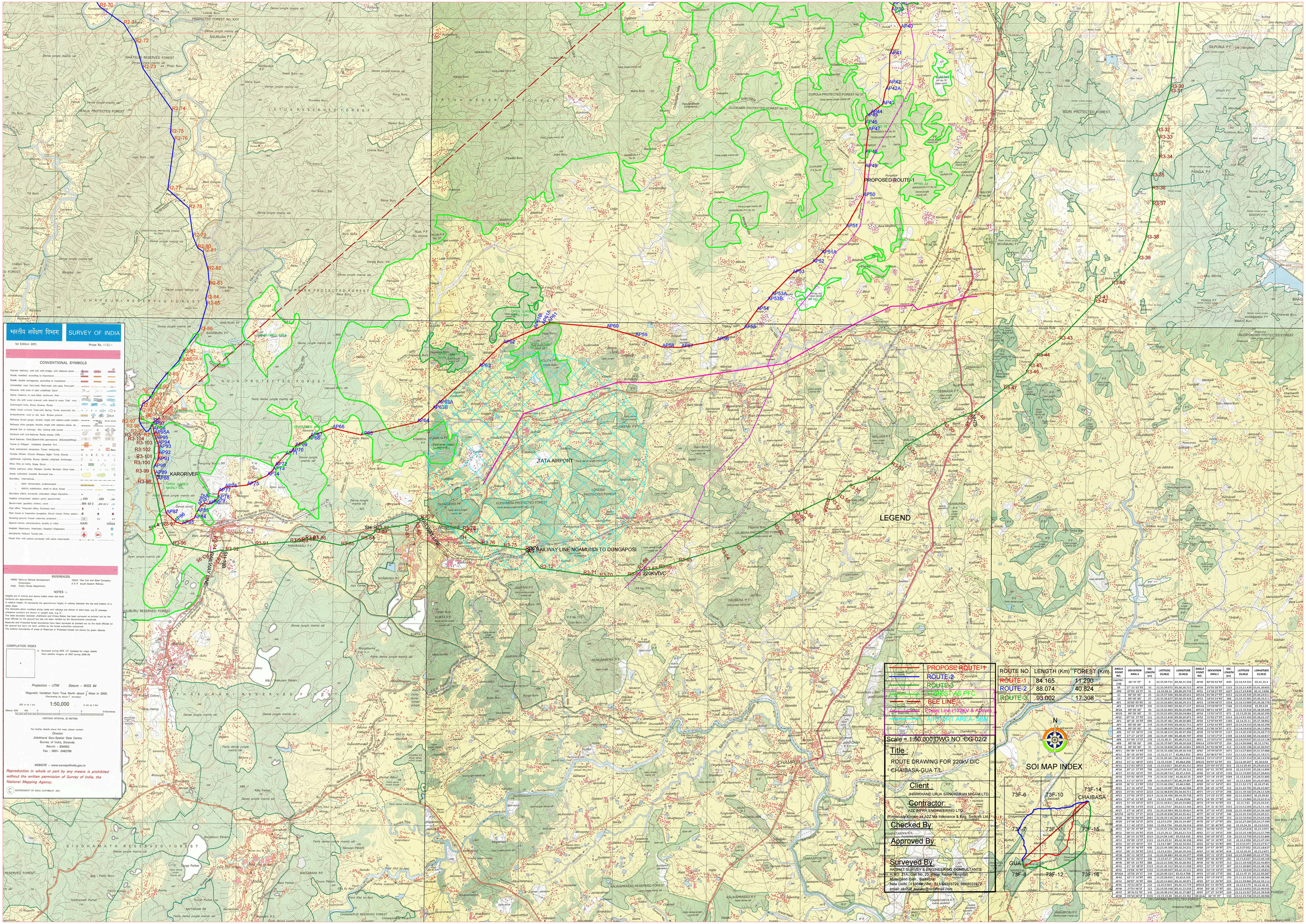
SOI MAP INDEX











ROUTE NO.	LENGTH (Km)	FOREST (Km)
ROUTE-1	84.165	11.290
ROUTE-2	88.074	40.824
ROUTE-3	93.002	17.308

ANGLE POINT NO.	DEVIATION ANGLE	SEC. LENGTH (m)	LATITUDE (D,M,S)	LONGITUDE (D,M,S)	ANGLE POINT NO.	DEVIATION ANGLE	SEC. LENGTH (m)	LATITUDE (D,M,S)	LONGITUDE (D,M,S)
GANTRY - CHB	XX° YY' ZZ"	0	22,35,59.731	85,50,31.558	AP49	02°20'55"RT	649	22,18,54.351	85,41,33.4
DE	17° 33' 02"RT	30	22,35,59.075	85,50,30.723	AP50	25°05'58"RT	1323	22,18,11.439	85,41,30.655
AP0	57°00' 10"LT	41	22,35,58.32	85,50,29.749	AP51	14°18'27"RT	1627	22,17,24.949	85,41,3.658
G1	00° 00' 00"	25	22,35,57.506	85,50,29.615	AP51A	01°44'27"RT	1653	22,16,45.545	85,40,24.511
G2	00° 00' 00"	27	22,35,56.627	85,50,29.448	AP52	16°55'24"RT	586	22,16,31.901	85,40,10.211
AP1	30°00' 09"RT	32	22,35,55.683	85,50,29.315	AP53	18°06'48"LT	1024	22,16,15.969	85,39,38.778
AP2	38°06' 29"RT	102	22,35,52.969	85,50,27.237	AP53A	04°58'06"LT	1388	22,15,43.048	85,39,5.59
AP2A	00° 00' 00"	44	22,35,52.665	85,50,25.698	AP53B	08°11'18"RT	293	22,15,35.516	85,38,59.269
AP2B	00° 00' 00"	30	22,35,52.495	85,50,24.684	AP54	12°02'34"LT	671	22,15,20.58	85,38,42.295
AP2C	07° 02' 37"RT	111	22,35,51.818	85,50,20.873	AP55	31°05'27"RT	1014	22,14,53.455	85,38,22.157
AP3	16° 16' 36"RT	699	22,35,47.481	85,49,56.885	AP56	12°47'04"RT	1360	22,14,35.11	85,37,38.952
AP4	00° 00' 00"	119	22,35,47.939	85,49,52.714	AP57	12°02'43"RT	1657	22,14,24.223	85,36,42.299
AP5	00° 00' 00"	30	22,35,48.029	85,49,51.698	AP58	21°06'16"RT	872	22,14,24.418	85,36,11.804
AP6	16° 29' 38"LT	118	22,35,48.519	85,49,47.596	AP59	05°32'09"LT	1327	22,14,40.239	85,35,28.719
AP7	17° 27' 22"LT	200	22,35,47.396	85,49,40.707	AP60	11°30'17"LT	1369	22,14,52.586	85,34,42.837
AP8	20° 00' 11"LT	578	22,35,40.31	85,49,23.222	AP61	25°10'53"LT	2606	22,14,59.037	85,33,12.128
AP9	00° 00' 00"	105	22,35,37.067	85,49,20.028	AP61A	05°04'07"LT	254	22,14,56.068	85,33,3.741
AP10	00° 00' 00"	30	22,35,35.658	85,49,18.604	AP61B	01°55'48"RT	412	22,14,50.198	85,32,50.947
AP11	05° 00' 14"RT	115	22,35,33.268	85,49,16.348	AP62	20°39'50"LT	1671	22,14,27.804	85,31,57.668
AP12	36° 10' 20"RT	535	22,35,21.17	85,49,2.935	AP63	02°46'07"RT	1557	22,13,52.144	85,31,19.273
AP13	00° 40' 26"LT	238	22,35,20.361	85,48,54.642	AP63A	03°44'19"LT	2503	22,12,57.414	85,30,14.578
AP14	10° 22' 48"LT	1391	22,35,15.06	85,48,6.258	AP63B	04°57'32"RT	351	22,12,49.207	85,30,6.04
AP15	23° 03' 09"LT	628	22,35,9.017	85,47,45.231	AP64	29° 00' 01"LT	925	22,12,29.44	85,29,41.632
AP16	29° 13' 37"RT	708	22,34,54.047	85,47,26.312	AP65	26° 01' 55"RT	2645	22,12,9.549	85,28,11.896
AP17	33° 02' 45"LT	707	22,34,49.734	85,47,2.049	AP66	33° 16' 18"LT	1328	22,12,19.007	85,27,26.644
AP18	00° 02' 08"LT	779	22,34,32.156	85,46,42.35	AP67	33° 16' 33"LT	1069	22,12,6.839	85,26,51.685
AP19	15° 57' 02"LT	509	22,34,20.677	85,46,29.497	AP68	26° 34' 53"RT	187	22,12,1.828	85,26,47.865
AP20	38° 51' 23"RT	1332	22,33,43.298	85,46,5.985	AP69	28° 41' 34"LT	651	22,11,52.172	85,26,27.65
AP21	21° 35' 44"LT	715	22,33,35.087	85,45,42.566	AP70	28° 25' 12"RT	312	22,11,43.791	85,26,21.667
AP22	25° 01' 16"LT	2222	22,32,46.839	85,44,44.711	AP71	19° 21' 57"LT	298	22,11,39.182	85,26,12.326
AP23	19° 02' 29"LT	1014	22,32,16.456	85,44,30.738	AP72	14° 20' 51"LT	689	22,11,22.603	85,25,55.82
AP24	27° 41' 53"RT	349	22,32,5.199	85,44,29.86	AP73	16° 09' 27"RT	241	22,11,15.965	85,25,51.914
AP25	31° 29' 20"LT	1973	22,31,10.611	85,43,53.605	AP74	19° 04' 32"RT	351	22,11,7.85	85,25,43.241
AP26	08° 04' 14"RT	1018	22,30,37.67	85,43,53.346	AP75	19° 35' 41"RT	1025	22,10,53.266	85,25,11.145
AP27	17° 16' 28"LT	672	22,30,15.984	85,43,49.624	AP76	27° 35' 44"LT	1006	22,10,49.609	85,24,36.169
AP27A	02° 51' 37"LT	1002	22,29,43.838	85,43,55.412	AP77	46° 25' 33"LT	346	22,10,43.334	85,24,26.221
AP28	36° 55' 08"RT	2661	22,28,19.118	85,44,14.307	AP78	38° 28' 12"RT	323	22,10,32.944	85,24,24.348
AP29	24° 58' 52"LT	2678	22,27,0.276	85,43,34.407	AP79	20° 17' 27"RT	265	22,10,27.284	85,24,17.499
AP30	11° 40' 28"LT	1588	22,26,8.736	85,43,34.318	AP80	37° 30' 40"RT	242	22,10,24.28	85,24,9.539
AP31	32° 28' 47"RT	357	22,25,57.276	85,43,36.731	AP81	48° 08' 54"LT	167	22,10,25.818	85,24,3.971
AP32	04° 03' 20"RT	1028	22,25,26.12	85,43,23.724	AP82	27° 32' 29"LT	209	22,10,22.149	85,23,57.799
AP33	18° 24' 32"RT	1019	22,24,56.148	85,43,8.435	AP83	06° 20' 50"LT	336	22,10,12.759	85,23,51.866
AP34	39° 09' 33"LT	1321	22,24,25.52	85,42,36.158	AP84	40° 34' 10"RT	330	22,10,2.958	85,23,47.194
AP35	06° 29' 40"LT	572	22,24,7.067	85,42,34.055	AP85	42° 02' 55"RT	609	22,9,54.477	85,23,27.917
AP36	19° 30' 48"RT	698	22,23,44.306	85,42,34.231	AP86	24° 57' 39"RT	274	22,9,57.052	85,23,18.637
AP37	00° 33' 59"RT	1303	22,23,4.353	85,42,19.249	AP87	33° 06' 16"RT	616	22,10,10.29	85,23,2.673
AP38	06° 41' 56"LT	242	22,22,56.883	85,42,16.277	AP88	05° 31' 19"LT	1585	22,10,59.889	85,22,47.792
AP39	42° 02' 36"LT	308	22,22,47.27	85,42,13.708	AP89	09° 18' 40"RT	285	22,11,8.437	85,22,44.168
AP40	50° 50' 15"RT	888	22,22,21.928	85,42,28.592	AP90	42° 56' 33"RT	313	22,11,18.428	85,22,41.854
AP41	21° 19' 38"LT	1315	22,21,42.312	85,42,11.058	AP91	22° 17' 35"LT	367	22,11,28.863	85,22,48.158
AP42	25°56' 45"RT	1330	22,20,59.057	85,42,10.131	AP92	04° 19' 45"LT	289	22,11,38.049	85,22,49.833
AP42A	15°58' 29"LT	340	22,20,49.324	85,42,4.768	AP93	19° 28' 17"LT	282	22,11,47.19	85,22,50.287
AP43	42°13' 14"RT	665	22,20,28.055	85,42,0.316	AP94	09° 19' 04"LT	195	22,11,53.316	85,22,48.366
AP44	00°07' 49"RT	692	22,20,14.665	85,41,40.971	AP95	07° 23' 29"RT	225	22,11,59.981	85,22,45.112
AP45	50°22'28"LT	252	22,20,9.924	85,41,33.779	AP95A	06° 11' 00"RT	269	22,12,8.179	85,22,42.26
AP46	27°54'46"LT	323	22,19,59.448	85,41,33.038	AP96	00° 28' 17"RT	181	22,12,14.051	85,22,40.935
AP47	30°41'51"RT	340	22,19,49.244	85,41,37.887	AP97	27° 27' 54"RT	220	22,12,21.027	85,22,39.528
AP48	05°30'48"LT	1045	22,19,15.49	85,41,33.762	DE-GUA	XX° YY' ZZ"	150	22,12,25.756	85,22,40.906