

**Detail Project Report**

**JIO DIGITAL FIBRE PRIVATE**  
**LIMITED**

**OFC Network**

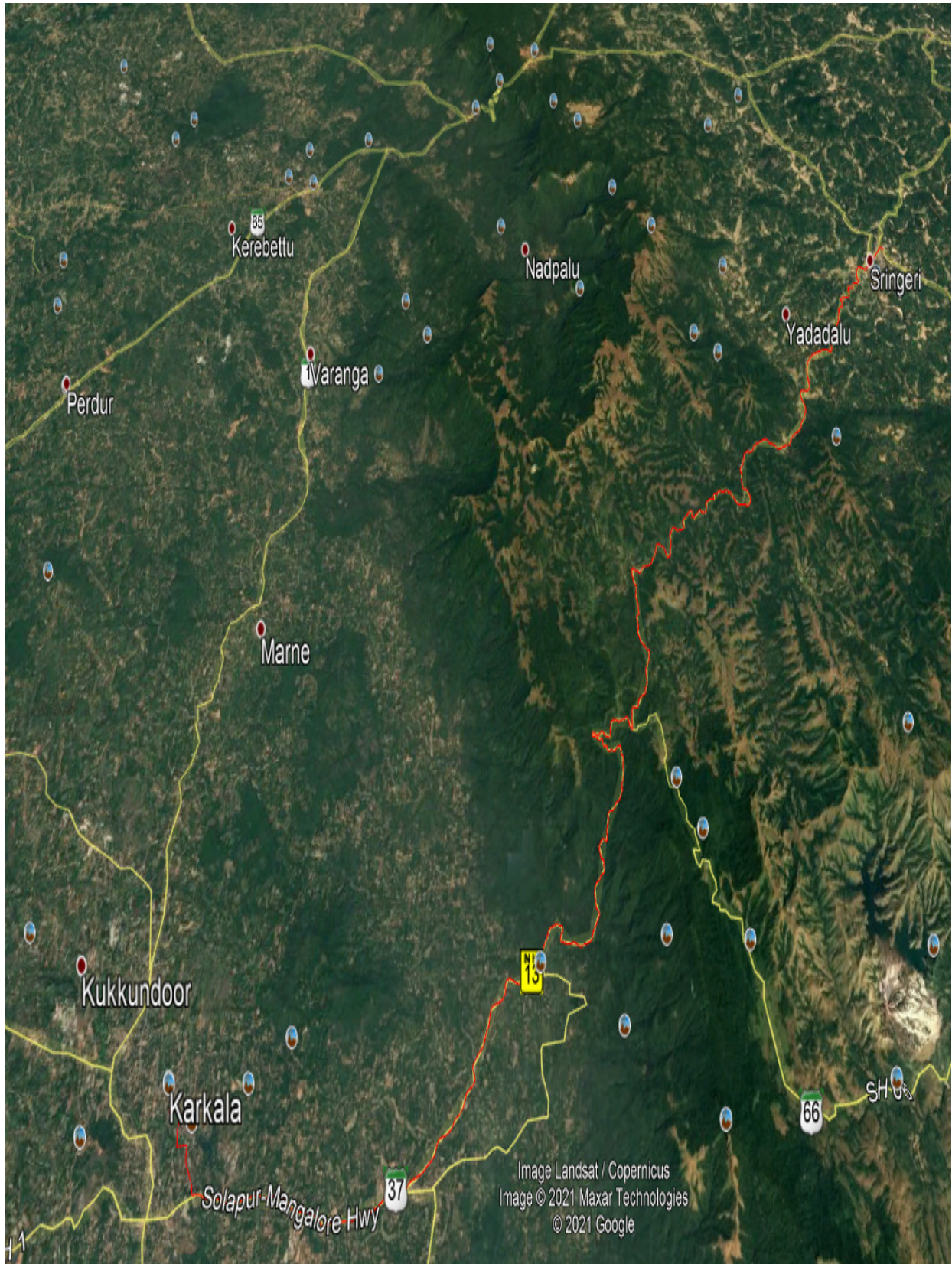
**DGPS Survey report for Forest Diversion of**  
**proposed OFC Cable Route from Karkala to**  
**Sringeri total length of 33.652km**

1.1 Background Reliance Jio Infocomm Limited is setting up 4G Optical Fiber Cable network across the country. In the state of Karnataka, the company plans to set up the telecom network (including laying of OFC cable) along the NHAI/PWD Road corridor. Reliance Jio Infocomm is granted license by Ministry of Communications & IT, Dept. of Telecommunications, and Govt. Of India, to establish Optical Fiber Cable network. The OFC Cable is laid under the ground at approx. depth of 1.65m and the trench width is 0.5m. In most of the places the cable trench line on National Highways is approx. at a distance of 14.5m from the road centerline and for State/District highways it is approx. 7m from the road center line.

1.2 Location and Communication The proposed OFC Cable route from Karkala to Sringeri total length of 33.652km (Tehsil: Karkala & Sringeri District: Udupi & Chikkamagaluru) is on the National Highway corridor NH-13. The route length is approx. 33.652 km. The National Highway 13 links the town Karkala to Sringeri. OFC cable route falls in two tehsils: Karkala and Sringeri of the Udupi and Chikkamagaluru district. The survey site passes through two forest ranges – Palli and Katghora of Katghora forest division. The cable route's proposed starting point is Palli Village Latitude 22°22'35.3551"N and Longitude 82°19'39.7134"E and the end location is Katghora at Latitude 22°33'16.76" N and Longitude 82°32'49.29" E. The OFC Cable route is covered under Survey of India Toposheet 48 O/3 and 48 O/4 on RF 1:50000.

1.3 Objective As per directives of Ministry of Environment & Forests (MoEF) dated 8th July 2011; all applications for Forest Diversion, under Forest Conservation Act, 1980 must be accompanied with Geo-referenced shape file, showing the boundary of the proposed area (both soft copy and hard copy maps), prepared using Differential GPS (DGPS) and the same should be uploaded to MoEF website along with the online application. To meet this requirement of MoEF, Reliance Jio Infocomm Limited, entrusted the DGPS survey work and submitting online application through MOEF website as required.

1.4 Google Picture of proposed OFC route:



1.5

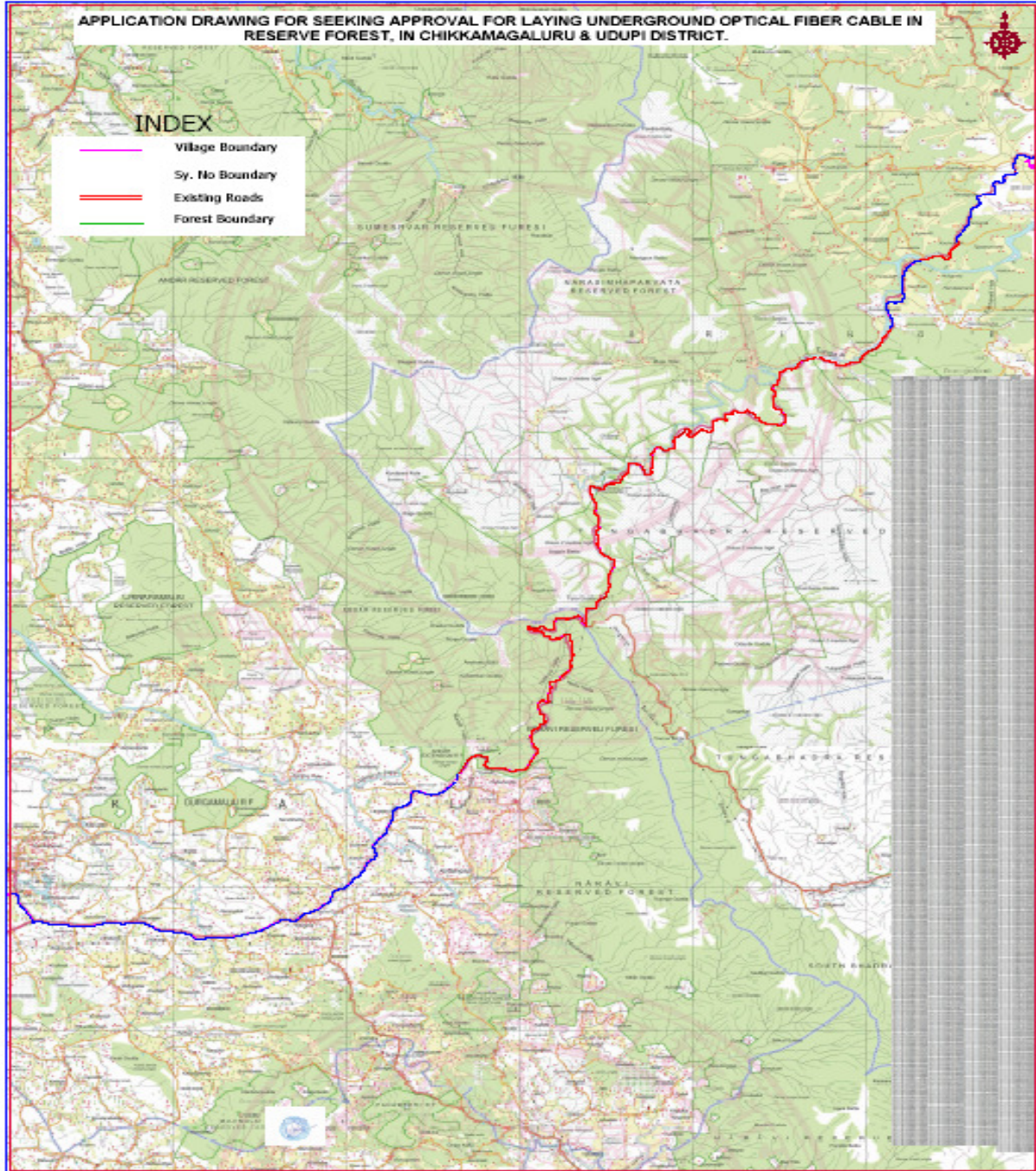
1.4 TOPO Sheet Showing Proposed OFC route:



APPLICATION DRAWING FOR SEEKING APPROVAL FOR LAYING UNDERGROUND OPTICAL FIBER CABLE IN  
RESERVE FOREST, IN CHIKKAMAGALURU & UDUPI DISTRICT.

INDEX

- Village Boundary
- Sy. No Boundary
- Existing Roads
- Forest Boundary



## 1.6 Coordinates of the Proposed route:

DATUM-WGS84				DATUM-WGS84				DATUM-WGS84				DATUM-WGS84			
P.NO	COADING	LATITUDE	LONGITUDE	P.NO	COADING	LATITUDE	LONGITUDE	P.NO	COADING	LATITUDE	LONGITUDE	P.NO	COADING	LATITUDE	LONGITUDE
1	A001	13.24112869	75.11011086	418	A418	13.2807827	75.13412431	835	A835	13.32281366	75.14204172	1252	A1252	13.34361699	75.18335425
2	A002	13.24127985	75.1102122	419	A419	13.28086655	75.13396079	836	A836	13.32298617	75.14198629	1253	A1253	13.34353683	75.1835198
3	A003	13.24143133	75.11031304	420	A420	13.2809385	75.13379938	837	A837	13.32315868	75.14193087	1254	A1254	13.34344237	75.18367669
4	A004	13.24158524	75.11040998	421	A421	13.28091364	75.1336165	838	A838	13.3233312	75.14187544	1255	A1255	13.34333851	75.18382789
5	A005	13.24173915	75.11050692	422	A422	13.28088466	75.13343435	839	A839	13.32350371	75.14182002	1256	A1256	13.34327507	75.18399677
6	A006	13.24189306	75.11060386	423	A423	13.28082074	75.13326166	840	A840	13.32367622	75.1417646	1257	A1257	13.34323946	75.18417785
7	A007	13.2420468	75.11070109	424	A424	13.28075426	75.13309006	841	A841	13.3238559	75.14175081	1258	A1258	13.34321914	75.18436011
8	A008	13.24220025	75.11079879	425	A425	13.28070449	75.13291255	842	A842	13.32403658	75.14174285	1259	A1259	13.3432275	75.1845446
9	A009	13.2423537	75.11089649	426	A426	13.28066858	75.13273165	843	A843	13.32421726	75.1417349	1260	A1260	13.34323341	75.18472912
10	A010	13.24250715	75.1109942	427	A427	13.28065158	75.13255017	844	A844	13.32439482	75.14171138	1261	A1261	13.34322933	75.18491376
11	A011	13.24266059	75.1110919	428	A428	13.2806864	75.13236918	845	A845	13.32456401	75.14164614	1262	A1262	13.34322307	75.18509832
12	A012	13.24281404	75.1111896	429	A429	13.28080512	75.13224421	846	A846	13.32473319	75.14158089	1263	A1263	13.34321468	75.18528281
13	A013	13.24296749	75.11128731	430	A430	13.28097194	75.13217467	847	A847	13.3249132	75.14158345	1264	A1264	13.34320629	75.1854673
14	A014	13.24312093	75.11138501	431	A431	13.28114657	75.13212747	848	A848	13.3250768	75.14162966	1265	A1265	13.34322399	75.1856508
15	A015	13.24327228	75.11148605	432	A432	13.28132441	75.13209476	849	A849	13.32520271	75.14176224	1266	A1266	13.34324571	75.18583415
16	A016	13.2434222	75.11158929	433	A433	13.28149831	75.13204515	850	A850	13.32532861	75.14189481	1267	A1267	13.34322024	75.18601559
17	A017	13.24357181	75.11169301	434	A434	13.28163422	75.13193277	851	A851	13.32545452	75.14202738	1268	A1268	13.34318436	75.18619661
18	A018	13.24372141	75.11179674	435	A435	13.28171897	75.13177445	852	A852	13.32558042	75.14215995	1269	A1269	13.34314869	75.18637655
19	A019	13.24387695	75.11189063	436	A436	13.28172941	75.13159389	853	A853	13.32553138	75.14230793	1270	A1270	13.34311627	75.18655936
20	A020	13.244035	75.11198036	437	A437	13.28170955	75.13141042	854	A854	13.32542957	75.14246057	1271	A1271	13.34308403	75.18674109
21	A021	13.24420409	75.11204515	438	A438	13.28168787	75.13122727	855	A855	13.3253158	75.14260268	1272	A1272	13.34298843	75.18689591
22	A022	13.24437455	75.11210683	439	A439	13.28167784	75.13104294	856	A856	13.32518313	75.14272818	1273	A1273	13.342885	75.18704741
23	A023	13.244545	75.11216851	440	A440	13.28171404	75.13086793	857	A857	13.32505045	75.14285368	1274	A1274	13.34278184	75.18719903
24	A024	13.24471546	75.11223018	441	A441	13.28182035	75.13071891	858	A858	13.32493165	75.14299241	1275	A1275	13.34275008	75.18738084
25	A025	13.24488592	75.11229186	442	A442	13.28195767	75.13060499	859	A859	13.32484462	75.14314787	1276	A1276	13.34271832	75.18756266
26	A026	13.24505638	75.11235354	443	A443	13.28211687	75.13051942	860	A860	13.32481948	75.14333075	1277	A1277	13.34276694	75.18773451
27	A027	13.24522684	75.11241522	444	A444	13.28229223	75.13047996	861	A861	13.32479434	75.14351363	1278	A1278	13.3428717	75.18787561
28	A028	13.2453973	75.11247689	445	A445	13.2824713	75.13046066	862	A862	13.3247692	75.14369651	1279	A1279	13.34300952	75.18799357
29	A029	13.24556636	75.11254235	446	A446	13.28265129	75.13044273	863	A863	13.32472177	75.14387184	1280	A1280	13.34313796	75.1881236
30	A030	13.2457342	75.1126111	447	A447	13.28282537	75.13039733	864	A864	13.32463491	75.14403382	1281	A1281	13.34326639	75.18825362
31	A031	13.24589447	75.11269022	448	A448	13.28298249	75.13030711	865	A865	13.32454804	75.14419579	1282	A1282	13.34339965	75.18837836
32	A032	13.24600679	75.11283491	449	A449	13.28310266	75.13017909	866	A866	13.32445532	75.14435397	1283	A1283	13.34353561	75.18850015
33	A033	13.2461092	75.11298608	450	A450	13.28306352	75.13000057	867	A867	13.32434841	75.14450292	1284	A1284	13.34365911	75.18863437
34	A034	13.24619088	75.11315079	451	A451	13.28299911	75.1298288	868	A868	13.3242415	75.14465186	1285	A1285	13.34377527	75.18877593
35	A035	13.24625262	75.11332425	452	A452	13.28293127	75.12965851	869	A869	13.32421347	75.14481669	1286	A1286	13.34391558	75.18884938
36	A036	13.24631338	75.11349813	453	A453	13.28288998	75.12947885	870	A870	13.32431163	75.14495936	1287	A1287	13.34409356	75.18881662
37	A037	13.24637415	75.11367201	454	A454	13.28284929	75.12929946	871	A871	13.32445526	75.14507158	1288	A1288	13.34427154	75.18878386
38	A038	13.24643491	75.11384589	455	A455	13.28284886	75.12911622	872	A872	13.32460955	75.14516774	1289	A1289	13.34444562	75.18873646
39	A039	13.24649585	75.11401971	456	A456	13.28291485	75.12894509	873	A873	13.32476482	75.14526243	1290	A1290	13.34461529	75.18867254



40	A040	13.24655723	75.11419337	457	A457	13.28302497	75.12879875	874	A874	13.32492009	75.14535712	1291	A1291	13.34478497	75.18860863
41	A041	13.24661861	75.11436703	458	A458	13.28312401	75.12864446	875	A875	13.32507535	75.14545181	1292	A1292	13.34495894	75.18855824
42	A042	13.24667999	75.11454068	459	A459	13.28323147	75.12849841	876	A876	13.3252291	75.14554904	1293	A1293	13.34513396	75.18857561
43	A043	13.24674905	75.11471045	460	A460	13.28332647	75.12834148	877	A877	13.32538223	75.14564729	1294	A1294	13.3453106	75.18860344
44	A044	13.24684732	75.11486543	461	A461	13.28338562	75.12816703	878	A878	13.3255007	75.14577961	1295	A1295	13.34549057	75.18858519
45	A045	13.2469456	75.11502041	462	A462	13.28344453	75.12799246	879	A879	13.32559103	75.1459396	1296	A1296	13.34566627	75.18854534
46	A046	13.24701973	75.11518471	463	A463	13.28349225	75.12781526	880	A880	13.32568135	75.14609959	1297	A1297	13.3458391	75.18849098
47	A047	13.24703419	75.11536668	464	A464	13.28351389	75.12763194	881	A881	13.32574936	75.1462696	1298	A1298	13.3459987	75.1884057
48	A048	13.24697525	75.11554121	465	A465	13.28353554	75.12744863	882	A882	13.32580374	75.14644573	1299	A1299	13.34615509	75.18831297
49	A049	13.24685595	75.1156795	466	A466	13.28354836	75.12726475	883	A883	13.32585811	75.14662186	1300	A1300	13.34630751	75.18821397
50	A050	13.24673105	75.11581245	467	A467	13.28354935	75.12708011	884	A884	13.3258804	75.14680365	1301	A1301	13.34645415	75.18810587
51	A051	13.24663301	75.11596624	468	A468	13.28357664	75.12689807	885	A885	13.32588706	75.1469882	1302	A1302	13.34660271	75.18800069
52	A052	13.24656828	75.11613812	469	A469	13.28366429	75.12674595	886	A886	13.32588528	75.1471724	1303	A1303	13.34675587	75.18790248
53	A053	13.24651888	75.11631388	470	A470	13.28382021	75.12665241	887	A887	13.32586375	75.14735576	1304	A1304	13.34690955	75.18780512
54	A054	13.24654056	75.11649702	471	A471	13.28399377	75.12663961	888	A888	13.3258461	75.14753931	1305	A1305	13.34706386	75.1877088
55	A055	13.24655489	75.11668089	472	A472	13.284151	75.12671963	889	A889	13.32585009	75.14772394	1306	A1306	13.34721817	75.18761249
56	A056	13.24649572	75.11684408	473	A473	13.28426444	75.12686038	890	A890	13.32585976	75.14790809	1307	A1307	13.34734965	75.18748739
57	A057	13.24635221	75.11695467	474	A474	13.28432223	75.12703408	891	A891	13.32588573	75.14809085	1308	A1308	13.34744351	75.18733562
58	A058	13.24618611	75.11702683	475	A475	13.28433156	75.12721715	892	A892	13.32591171	75.14827361	1309	A1309	13.34746065	75.18715784
59	A059	13.24601385	75.11708305	476	A476	13.28428967	75.12739607	893	A893	13.32593768	75.14845637	1310	A1310	13.34740959	75.18698744
60	A060	13.24583905	75.11713025	477	A477	13.28419134	75.12755102	894	A894	13.325984	75.14863412	1311	A1311	13.34737906	75.1868054
61	A061	13.24566223	75.11716613	478	A478	13.28410665	75.12771389	895	A895	13.32604242	75.1488089	1312	A1312	13.34736484	75.18662131
62	A062	13.24548191	75.11718023	479	A479	13.28402994	75.12788109	896	A896	13.32612239	75.1489708	1313	A1313	13.34747802	75.18650397
63	A063	13.24530972	75.11713654	480	A480	13.28395104	75.12804721	897	A897	13.32624295	75.14910845	1314	A1314	13.34763289	75.1864086
64	A064	13.24518459	75.11700591	481	A481	13.2838921	75.12822105	898	A898	13.32637423	75.14922437	1315	A1315	13.34777619	75.18629631
65	A065	13.24506654	75.11686649	482	A482	13.28384189	75.12839843	899	A899	13.32655432	75.14924126	1316	A1316	13.34791711	75.18618056
66	A066	13.24495631	75.11672043	483	A483	13.28378848	75.12857483	900	A900	13.32673377	75.14926075	1317	A1317	13.34806612	75.18607621
67	A067	13.24482023	75.11660385	484	A484	13.28373354	75.12875074	901	A901	13.32689982	75.14933391	1318	A1318	13.34824357	75.18604613
68	A068	13.24466012	75.11651997	485	A485	13.28367004	75.12892248	902	A902	13.32706587	75.14940707	1319	A1319	13.34842294	75.18602265
69	A069	13.24448357	75.11648057	486	A486	13.28369125	75.1291038	903	A903	13.32723906	75.14945794	1320	A1320	13.34860244	75.18601222
70	A070	13.24430631	75.11644397	487	A487	13.28378832	75.12925547	904	A904	13.32741607	75.14949575	1321	A1321	13.34878169	75.18603678
71	A071	13.24412662	75.11642971	488	A488	13.28392953	75.12937077	905	A905	13.32759309	75.14953356	1322	A1322	13.34896093	75.18606133
72	A072	13.24394581	75.11642571	489	A489	13.2840635	75.12949424	906	A906	13.32777011	75.14957138	1323	A1323	13.34912343	75.18602809
73	A073	13.24376907	75.11644164	490	A490	13.28416367	75.12964663	907	A907	13.32794713	75.14960919	1324	A1324	13.34926073	75.18590789
74	A074	13.24361382	75.11653398	491	A491	13.28423927	75.12981333	908	A908	13.32804593	75.14969757	1325	A1325	13.34939803	75.18578768
75	A075	13.24351656	75.11668268	492	A492	13.28429655	75.12998846	909	A909	13.32800368	75.14987714	1326	A1326	13.3495437	75.18567898
76	A076	13.2434408	75.11684897	493	A493	13.2843359	75.13016864	910	A910	13.32796143	75.1500567	1327	A1327	13.34970806	75.18561071
77	A077	13.24340445	75.11702982	494	A494	13.28436378	75.13035087	911	A911	13.32811924	75.15014128	1328	A1328	13.34988603	75.18557783
78	A078	13.24336873	75.11721079	495	A495	13.28435019	75.13052762	912	A912	13.32828092	75.15022402	1329	A1329	13.35006495	75.1855789
79	A079	13.24332169	75.11738882	496	A496	13.28424325	75.13067611	913	A913	13.32844261	75.15030674	1330	A1330	13.3502385	75.18562937
80	A080	13.24327239	75.11756631	497	A497	13.28412154	75.13081158	914	A914	13.32860436	75.15038934	1331	A1331	13.35038184	75.18573116

81	A081	13.2432319	75.11774616	498	A498	13.28398545	75.13093298	915	A915	13.32876612	75.15047194	1332	A1332	13.35049739	75.18587323
82	A082	13.24317804	75.11792239	499	A499	13.28385686	75.13106065	916	A916	13.32892787	75.15055454	1333	A1333	13.35065201	75.18596299
83	A083	13.24313935	75.11810242	500	A500	13.28374435	75.13120471	917	A917	13.32901931	75.15071136	1334	A1334	13.35081673	75.18603923
84	A084	13.24309775	75.11828207	501	A501	13.28362734	75.13134464	918	A918	13.32914904	75.15082117	1335	A1335	13.35098144	75.18611548
85	A085	13.24306793	75.11846398	502	A502	13.28354592	75.13150951	919	A919	13.32932224	75.15086809	1336	A1336	13.35114616	75.18619173
86	A086	13.24303519	75.11864516	503	A503	13.28348704	75.13168245	920	A920	13.32950309	75.15086804	1337	A1337	13.3513233	75.18620676
87	A087	13.24300272	75.11882544	504	A504	13.28345522	75.1318638	921	A921	13.32968393	75.15086799	1338	A1338	13.3515035	75.18619854
88	A088	13.24299148	75.11900945	505	A505	13.2834434	75.13204775	922	A922	13.32986436	75.15087056	1339	A1339	13.35167948	75.186156
89	A089	13.2429651	75.11919205	506	A506	13.28339817	75.13222525	923	A923	13.33003556	75.15093006	1340	A1340	13.35185278	75.18613809
90	A090	13.24294215	75.11937507	507	A507	13.28333945	75.13239915	924	A924	13.33020677	75.15098957	1341	A1341	13.35202489	75.18619484
91	A091	13.24293641	75.11955832	508	A508	13.28328335	75.13257423	925	A925	13.33037891	75.15104486	1342	A1342	13.35219699	75.18625158
92	A092	13.24296241	75.11974043	509	A509	13.28329508	75.13275824	926	A926	13.3305585	75.15106657	1343	A1343	13.35237043	75.18624113
93	A093	13.243	75.11992096	510	A510	13.28337669	75.13291919	927	A927	13.3307381	75.15108829	1344	A1344	13.35253821	75.18617935
94	A094	13.24301696	75.12010476	511	A511	13.28349401	75.1330586	928	A928	13.33091769	75.15111	1345	A1345	13.35267481	75.18605832
95	A095	13.24303014	75.12028881	512	A512	13.28365511	75.13312956	929	A929	13.33109672	75.15113512	1346	A1346	13.35281142	75.18593729
96	A096	13.24303705	75.12047329	513	A513	13.28383343	75.13315959	930	A930	13.33127327	75.15117516	1347	A1347	13.35293308	75.18580129
97	A097	13.24304396	75.12065777	514	A514	13.28401311	75.13316441	931	A931	13.33144981	75.1512152	1348	A1348	13.35304886	75.18565941
98	A098	13.24305816	75.12084143	515	A515	13.28419348	75.13315097	932	A932	13.33161141	75.15128359	1349	A1349	13.35320971	75.18563087
99	A099	13.24306652	75.12102344	516	A516	13.28437379	75.13315891	933	A933	13.33174127	75.15141211	1350	A1350	13.35338957	75.18565014
100	A100	13.24300548	75.12119486	517	A517	13.28455408	75.13317342	934	A934	13.33183886	75.15155871	1351	A1351	13.35356943	75.18566941
101	A101	13.24292349	75.12135941	518	A518	13.2847346	75.13318444	935	A935	13.33187474	75.1517397	1352	A1352	13.35374324	75.18571838
102	A102	13.2428597	75.12153318	519	A519	13.28491516	75.13319485	936	A936	13.33189064	75.15192366	1353	A1353	13.35391566	75.1857741
103	A103	13.24276958	75.12169179	520	A520	13.28509468	75.13321601	937	A937	13.33194681	75.15209654	1354	A1354	13.35408231	75.18583987
104	A104	13.24269237	75.12185847	521	A521	13.28527298	75.13324612	938	A938	13.33199718	75.15226707	1355	A1355	13.35421416	75.18596628
105	A105	13.24261467	75.12202467	522	A522	13.28544833	75.13328991	939	A939	13.33196054	75.15244766	1356	A1356	13.35432343	75.18611192
106	A106	13.24251289	75.12217726	523	A523	13.28561657	75.13335637	940	A940	13.3318808	75.15261342	1357	A1357	13.35442139	75.18626717
107	A107	13.24240718	75.12232705	524	A524	13.28579739	75.13335976	941	A941	13.33178537	75.15276876	1358	A1358	13.35452174	75.18642082
108	A108	13.24232738	75.12249181	525	A525	13.28597736	75.13335319	942	A942	13.3316693	75.15291038	1359	A1359	13.35462268	75.18657407
109	A109	13.24227255	75.12266694	526	A526	13.28615561	75.13333474	943	A943	13.3315563	75.153054	1360	A1360	13.35478919	75.18662798
110	A110	13.24221813	75.12284222	527	A527	13.28633312	75.13336462	944	A944	13.33149283	75.15322335	1361	A1361	13.35496616	75.18666607
111	A111	13.24214765	75.12301218	528	A528	13.28649822	75.13343862	945	A945	13.33151584	75.15340652	1362	A1362	13.35514505	75.18668488
112	A112	13.24210091	75.12319052	529	A529	13.28662235	75.13356901	946	A946	13.33153746	75.15358988	1363	A1363	13.35532089	75.18670103
113	A113	13.24209926	75.12337148	530	A530	13.28667122	75.13374497	947	A947	13.33147601	75.15371546	1364	A1364	13.35547061	75.18680462
114	A114	13.24213062	75.12355314	531	A531	13.28670785	75.13392547	948	A948	13.33130103	75.1537621	1365	A1365	13.35562034	75.18690821
115	A115	13.24216737	75.12372865	532	A532	13.28675657	75.13410321	949	A949	13.33123677	75.15391567	1366	A1366	13.35577006	75.18701181
116	A116	13.24229002	75.12386354	533	A533	13.28679538	75.13428349	950	A950	13.33120094	75.15409669	1367	A1367	13.35591978	75.1871154
117	A117	13.24241938	75.12399232	534	A534	13.28682583	75.1344655	951	A951	13.33105562	75.15418229	1368	A1368	13.35606951	75.18721899
118	A118	13.24251899	75.12413863	535	A535	13.28685874	75.13464706	952	A952	13.33088619	75.15424686	1369	A1369	13.35623232	75.18729181
119	A119	13.24252449	75.12431622	536	A536	13.28686382	75.13483156	953	A953	13.33071685	75.15431167	1370	A1370	13.35640864	75.18733291
120	A120	13.24252359	75.12449954	537	A537	13.28685773	75.13501541	954	A954	13.33055234	75.15438836	1371	A1371	13.35658495	75.187374
121	A121	13.24254346	75.12468303	538	A538	13.28681234	75.13519357	955	A955	13.33038782	75.15446505	1372	A1372	13.35676372	75.18739877

122	A122	13.24255801	75.12486697	539	A539	13.2867732	75.13537188	956	A956	13.3302233	75.15454174	1373	A1373	13.35694399	75.18741348
123	A123	13.24256929	75.12505106	540	A540	13.28672838	75.1355506	957	A957	13.33005745	75.15461532	1374	A1374	13.35712427	75.18742818
124	A124	13.24261835	75.12522875	541	A541	13.28667901	75.13572823	958	A958	13.32989059	75.15468655	1375	A1375	13.35730454	75.18744289
125	A125	13.24266742	75.12540644	542	A542	13.28662887	75.1359056	959	A959	13.32972374	75.15475779	1376	A1376	13.35748481	75.1874576
126	A126	13.24271758	75.1255838	543	A543	13.28656302	75.13607757	960	A960	13.32955674	75.15482861	1377	A1377	13.35766392	75.18748199
127	A127	13.24277043	75.12576021	544	A544	13.28651964	75.13625574	961	A961	13.32938392	75.15488301	1378	A1378	13.35784229	75.18751246
128	A128	13.24284377	75.12592896	545	A545	13.28653324	75.13643661	962	A962	13.32921109	75.15493742	1379	A1379	13.35784229	75.18751246
129	A129	13.24292097	75.12609568	546	A546	13.28659273	75.13660941	963	A963	13.32903827	75.15499182	1380	A1380	13.35802066	75.18754293
130	A130	13.24301308	75.12625455	547	A547	13.28667797	75.13677182	964	A964	13.32886658	75.15504915	1381	A1381	13.35819903	75.18757339
131	A131	13.2431052	75.12641342	548	A548	13.28676566	75.13693301	965	A965	13.32870424	75.15513054	1382	A1382	13.3583222	75.18768875
132	A132	13.24317806	75.12658288	549	A549	13.28685701	75.13709237	966	A966	13.32853888	75.15520381	1383	A1383	13.35840842	75.18784963
133	A133	13.24329939	75.12666345	550	A550	13.28692421	75.13726164	967	A967	13.32838652	75.15528903	1384	A1384	13.35845819	75.1880272
134	A134	13.24346893	75.12672528	551	A551	13.28694471	75.13744509	968	A968	13.32834013	75.15545216	1385	A1385	13.35850796	75.18820477
135	A135	13.24364116	75.12678161	552	A552	13.28698605	75.13762373	969	A969	13.32834928	75.15563467	1386	A1386	13.35855773	75.18838233
136	A136	13.24380002	75.12686959	553	A553	13.28702332	75.13780327	970	A970	13.32841829	75.15580537	1387	A1387	13.35866309	75.18850868
137	A137	13.24395992	75.12695543	554	A554	13.28705873	75.13798351	971	A971	13.32849056	75.15597409	1388	A1388	13.35883094	75.18857745
138	A138	13.24412781	75.12702406	555	A555	13.28712698	75.13815332	972	A972	13.32860489	75.15611718	1389	A1389	13.35899878	75.18864622
139	A139	13.2443007	75.12707217	556	A556	13.28721891	75.13831209	973	A973	13.32871922	75.15626027	1390	A1390	13.35915174	75.18873733
140	A140	13.24447208	75.12713016	557	A557	13.2873223	75.13846153	974	A974	13.32883355	75.15640336	1391	A1391	13.35926359	75.18887603
141	A141	13.24463508	75.12721012	558	A558	13.28744286	75.13859873	975	A975	13.32894788	75.15654646	1392	A1392	13.35924974	75.18906019
142	A142	13.24479809	75.12729008	559	A559	13.28753497	75.13875318	976	A976	13.32906221	75.15668955	1393	A1393	13.35923589	75.18924435
143	A143	13.24495643	75.12737862	560	A560	13.28753027	75.13893709	977	A977	13.32919039	75.15679468	1394	A1394	13.35922204	75.1894285
144	A144	13.24511036	75.12747553	561	A561	13.28749275	75.13911527	978	A978	13.32936854	75.15676289	1395	A1395	13.35920111	75.18961174
145	A145	13.24526213	75.12757574	562	A562	13.28736934	75.13925024	979	A979	13.329455	75.15660388	1396	A1396	13.35916924	75.18979355
146	A146	13.24540888	75.12768363	563	A563	13.28722833	75.13935698	980	A980	13.32957022	75.1564724	1397	A1397	13.35913737	75.18997536
147	A147	13.24555563	75.12779153	564	A564	13.28706341	75.13943256	981	A981	13.32971934	75.15636793	1398	A1398	13.35912476	75.19015941
148	A148	13.24570238	75.12789942	565	A565	13.28690115	75.13951394	982	A982	13.32988368	75.15629657	1399	A1399	13.35911568	75.19034388
149	A149	13.24584914	75.12800731	566	A566	13.28674567	75.13960825	983	A983	13.33004191	75.15634549	1400	A1400	13.35912297	75.19052788
150	A150	13.24600319	75.12810392	567	A567	13.28659019	75.13970256	984	A984	13.33018619	75.15645685	1401	A1401	13.359142	75.19071156
151	A151	13.24615787	75.12819958	568	A568	13.2864244	75.1397751	985	A985	13.33033056	75.15656806	1402	A1402	13.35917007	75.19089239
152	A152	13.24631609	75.12828882	569	A569	13.28624722	75.1398111	986	A986	13.33048743	75.15665985	1403	A1403	13.35925561	75.19105512
153	A153	13.24647656	75.12837395	570	A570	13.28606941	75.1398448	987	A987	13.33066357	75.15669491	1404	A1404	13.35934114	75.19121786
154	A154	13.24663966	75.12845222	571	A571	13.28589112	75.13987531	988	A988	13.33084254	75.15672147	1405	A1405	13.35942668	75.19138059
155	A155	13.24680066	75.12853632	572	A572	13.28571554	75.13991072	989	A989	13.3310215	75.15674804	1406	A1406	13.35959205	75.19144512
156	A156	13.24696012	75.12862326	573	A573	13.28555606	75.13999644	990	A990	13.33120047	75.1567746	1407	A1407	13.35976441	75.19150105
157	A157	13.24711581	75.1287172	574	A574	13.2854217	75.14012003	991	A991	13.33137944	75.15680117	1408	A1408	13.35993697	75.19155633
158	A158	13.24727149	75.12881115	575	A575	13.28528733	75.14024362	992	A992	13.33155841	75.15682773	1409	A1409	13.36010989	75.1916104
159	A159	13.24740771	75.12893235	576	A576	13.28515481	75.14036921	993	A993	13.33173738	75.1568543	1410	A1410	13.36028281	75.19166447
160	A160	13.24753653	75.12906192	577	A577	13.2850258	75.14049861	994	A994	13.33191667	75.15687725	1411	A1411	13.36042271	75.19177775
161	A161	13.24768994	75.12915915	578	A578	13.28489679	75.14062801	995	A995	13.33209738	75.15688452	1412	A1412	13.36056696	75.19188874
162	A162	13.2478448	75.12925333	579	A579	13.28476911	75.14075872	996	A996	13.33227809	75.1568918	1413	A1413	13.36071448	75.19199558



245	A245	13.26009144	75.12947189	662	A662	13.29596187	75.14657119	1079	A1079	13.34060969	75.16392435	1496	A1496	13.3612911	75.20571828
246	A246	13.26026119	75.1294082	663	A663	13.29614174	75.14659042	1080	A1080	13.34077632	75.16399607	1497	A1497	13.36130419	75.20589961
247	A247	13.26043291	75.12935111	664	A664	13.29632119	75.14657497	1081	A1081	13.34090907	75.16409343	1498	A1498	13.36134111	75.20608042
248	A248	13.26060752	75.129303	665	A665	13.29649981	75.14654752	1082	A1082	13.34091929	75.16427782	1499	A1499	13.36138476	75.20625916
249	A249	13.26078467	75.12926715	666	A666	13.29667434	75.14649912	1083	A1083	13.34105166	75.16436782	1500	A1500	13.36145212	75.20643057
250	A250	13.26096334	75.12923854	667	A667	13.29683776	75.14642221	1084	A1084	13.34122265	75.16442799	1501	A1501	13.36154912	75.20658349
251	A251	13.26114265	75.12921564	668	A668	13.29699761	75.14633621	1085	A1085	13.34138275	75.16450714	1502	A1502	13.36169108	75.20669089
252	A252	13.26132305	75.12920267	669	A669	13.29715451	75.14624488	1086	A1086	13.34151782	75.16462995	1503	A1503	13.36185584	75.20676703
253	A253	13.26150274	75.12922104	670	A670	13.29731738	75.14620461	1087	A1087	13.34165068	75.16475443	1504	A1504	13.36202061	75.20684317
254	A254	13.26166858	75.12928852	671	A671	13.29749267	75.14625005	1088	A1088	13.34172663	75.16492204	1505	A1505	13.36218574	75.20691848
255	A255	13.26182056	75.12938663	672	A672	13.29766853	75.14629311	1089	A1089	13.34177568	75.16509161	1506	A1506	13.36235136	75.20699268
256	A256	13.26198834	75.12945548	673	A673	13.29784797	75.14629607	1090	A1090	13.34172378	75.16526853	1507	A1507	13.36251631	75.20706837
257	A257	13.26215178	75.12953344	674	A674	13.29802752	75.1462785	1091	A1091	13.34165479	75.16543868	1508	A1508	13.36268086	75.207145
258	A258	13.26231358	75.12961482	675	A675	13.2981971	75.14621603	1092	A1092	13.34157529	75.16560407	1509	A1509	13.36284713	75.20721755
259	A259	13.26247924	75.1296871	676	A676	13.29836766	75.14615661	1093	A1093	13.34141142	75.16568216	1510	A1510	13.36301469	75.20728704
260	A260	13.26261845	75.12980403	677	A677	13.29854684	75.14613529	1094	A1094	13.34124576	75.16575608	1511	A1511	13.36317978	75.20736078
261	A261	13.26273508	75.12994435	678	A678	13.29872762	75.14614027	1095	A1095	13.34107284	75.16581039	1512	A1512	13.36331957	75.20747796
262	A262	13.2628223	75.13010588	679	A679	13.29890819	75.14614824	1096	A1096	13.34089348	75.16582701	1513	A1513	13.36345937	75.20759514
263	A263	13.262916	75.13026297	680	A680	13.29908356	75.14619244	1097	A1097	13.34071438	75.16582128	1514	A1514	13.36359916	75.20771232
264	A264	13.2629665	75.13044014	681	A681	13.29925689	75.14624508	1098	A1098	13.34053394	75.16577459	1515	A1515	13.36373459	75.20783471
265	A265	13.26301847	75.13060164	682	A682	13.29942943	75.1463	1099	A1099	13.34039198	75.16568673	1516	A1516	13.36386965	75.20795754
266	A266	13.26302694	75.13078532	683	A683	13.29957695	75.14640682	1100	A1100	13.34028578	75.16553724	1517	A1517	13.36400472	75.20808037
267	A267	13.26291305	75.1309013	684	A684	13.29972839	75.14650749	1101	A1101	13.34014951	75.16541838	1518	A1518	13.36413978	75.2082032
268	A268	13.26274117	75.13095218	685	A685	13.29988343	75.14660257	1102	A1102	13.33998778	75.16537422	1519	A1519	13.36425526	75.20834487
269	A269	13.26258812	75.13105054	686	A686	13.30003846	75.14669765	1103	A1103	13.3398569	75.16550167	1520	A1520	13.3643579	75.20849539
270	A270	13.2624355	75.13114714	687	A687	13.30019293	75.14679366	1104	A1104	13.33977398	75.1656657	1521	A1521	13.36442438	75.20866716
271	A271	13.26234093	75.13129971	688	A688	13.30034602	75.14689198	1105	A1105	13.33965459	75.16580367	1522	A1522	13.36449087	75.20883893
272	A272	13.26230349	75.1314797	689	A689	13.3004991	75.14699029	1106	A1106	13.33955218	75.16595589	1523	A1523	13.3645624	75.20900855
273	A273	13.2623424	75.1316563	690	A690	13.30062228	75.14712392	1107	A1107	13.33941249	75.16607154	1524	A1524	13.36463528	75.20917759
274	A274	13.26241587	75.13182207	691	A691	13.30075063	75.1472499	1108	A1108	13.33928652	75.16620268	1525	A1525	13.36470817	75.20934663
275	A275	13.26255201	75.13193982	692	A692	13.30092195	75.14730905	1109	A1109	13.3394196	75.16631425	1526	A1526	13.36478764	75.20951229
276	A276	13.26273088	75.13193679	693	A693	13.3010971	75.14735261	1110	A1110	13.33959061	75.16637068	1527	A1527	13.36487682	75.20967297
277	A277	13.2629099	75.13192508	694	A694	13.30127353	75.14738025	1111	A1111	13.33973538	75.16648101	1528	A1528	13.36496601	75.20983366
278	A278	13.26309005	75.13190886	695	A695	13.30145276	75.14740011	1112	A1112	13.33987644	75.16659658	1529	A1529	13.36505165	75.20999564
279	A279	13.26326824	75.13188324	696	A696	13.30163044	75.14743343	1113	A1113	13.3400175	75.16671216	1530	A1530	13.36508341	75.21017748
280	A280	13.26344635	75.13185254	697	A697	13.30180629	75.14747657	1114	A1114	13.34015856	75.16682773	1531	A1531	13.36511835	75.21035832
281	A281	13.26362566	75.13183041	698	A698	13.30198603	75.14749318	1115	A1115	13.34029197	75.1669519	1532	A1532	13.36519116	75.2105274
282	A282	13.26380649	75.13182762	699	A699	13.30216654	75.14750147	1116	A1116	13.3404181	75.16708426	1533	A1533	13.36529387	75.21067571
283	A283	13.26398732	75.13182484	700	A700	13.30234715	75.14749203	1117	A1117	13.34053145	75.16722768	1534	A1534	13.36542103	75.21080704
284	A284	13.26416813	75.13182729	701	A701	13.30252782	75.14748838	1118	A1118	13.34063876	75.16737634	1535	A1535	13.36554819	75.21093838
285	A285	13.26434893	75.13183139	702	A702	13.30270849	75.14747557	1119	A1119	13.34074607	75.167525	1536	A1536	13.36568247	75.21106193

204	A204	13.25439146	75.12873685	621	A621	13.28996248	75.1430119	1038	A1038	13.33576361	75.16024862	1455	A1455	13.36165955	75.19896744
205	A205	13.25444908	75.12891155	622	A622	13.29013651	75.14305757	1039	A1039	13.33580956	75.16042023	1456	A1456	13.36159755	75.19914094
206	A206	13.2544954	75.12908837	623	A623	13.29031491	75.14308787	1040	A1040	13.33580432	75.16060483	1457	A1457	13.36153411	75.19931386
207	A207	13.25456746	75.12925716	624	A624	13.29049383	75.1431147	1041	A1041	13.33582971	75.16078145	1458	A1458	13.36146143	75.19948299
208	A208	13.25467942	75.12940014	625	A625	13.29067293	75.14314033	1042	A1042	13.33592103	75.16094085	1459	A1459	13.36138876	75.19965212
209	A209	13.25483514	75.12949083	626	A626	13.29085009	75.14317683	1043	A1043	13.33594937	75.16111954	1460	A1460	13.36131609	75.19982126
210	A210	13.25500637	75.12954974	627	A627	13.29102586	75.14321992	1044	A1044	13.33595898	75.16130396	1461	A1461	13.36124181	75.19998965
211	A211	13.25518413	75.12957829	628	A628	13.29118499	75.14320259	1045	A1045	13.33598052	75.16148731	1462	A1462	13.36116548	75.20015709
212	A212	13.25536292	75.12959938	629	A629	13.29133201	75.14341012	1046	A1046	13.33600265	75.1616706	1463	A1463	13.36108916	75.20032454
213	A213	13.25552911	75.12966467	630	A630	13.29147399	75.1435243	1047	A1047	13.33605879	75.16184377	1464	A1464	13.36101823	75.2004935
214	A214	13.2556711	75.12977836	631	A631	13.29161283	75.14364263	1048	A1048	13.33613658	75.1620105	1465	A1465	13.36099991	75.20067725
215	A215	13.25578587	75.12991975	632	A632	13.29175166	75.14376095	1049	A1049	13.33625021	75.16215011	1466	A1466	13.36095598	75.20084015
216	A216	13.25586464	75.13008415	633	A633	13.29188609	75.14388398	1050	A1050	13.33638373	75.16227467	1467	A1467	13.36078468	75.20089937
217	A217	13.25596021	75.13023809	634	A634	13.29200801	75.14402037	1051	A1051	13.33655072	75.16233254	1468	A1468	13.36062103	75.20097736
218	A218	13.25603529	75.13040468	635	A635	13.29212992	75.14415676	1052	A1052	13.33671988	75.16228459	1469	A1469	13.36045922	75.20105984
219	A219	13.25610903	75.13057316	636	A636	13.29223636	75.14430293	1053	A1053	13.33688698	75.16221395	1470	A1470	13.36032225	75.20117889
220	A220	13.25620434	75.13072907	637	A637	13.29230164	75.14447513	1054	A1054	13.33705408	75.16214331	1471	A1471	13.36022565	75.20132302
221	A221	13.25630642	75.13088137	638	A638	13.2923776	75.14464261	1055	A1055	13.33722117	75.16207267	1472	A1472	13.36020669	75.2015067
222	A222	13.25644003	75.13100181	639	A639	13.29245597	75.14480902	1056	A1056	13.33739177	75.16201177	1473	A1473	13.36020175	75.20168926
223	A223	13.25661105	75.1310559	640	A640	13.29254074	75.14497192	1057	A1057	13.33756397	75.16195536	1474	A1474	13.36024851	75.20186769
224	A224	13.25679048	75.13103283	641	A641	13.29263349	75.14513043	1058	A1058	13.33773618	75.16189895	1475	A1475	13.36027479	75.20204993
225	A225	13.25695832	75.13096947	642	A642	13.29272361	75.14529048	1059	A1059	13.33790839	75.16184254	1476	A1476	13.36029353	75.20223364
226	A226	13.25712839	75.13090776	643	A643	13.29281008	75.14545266	1060	A1060	13.33808059	75.16178613	1477	A1477	13.36031334	75.20241723
227	A227	13.25729692	75.13084107	644	A644	13.29292193	75.14559346	1061	A1061	13.33826119	75.16179317	1478	A1478	13.36033422	75.20260065
228	A228	13.2574708	75.13079028	645	A645	13.29308487	75.14565964	1062	A1062	13.33843618	75.16182329	1479	A1479	13.36036881	75.20278194
229	A229	13.25764467	75.13073949	646	A646	13.29326284	75.14569193	1063	A1063	13.33859766	75.16190645	1480	A1480	13.36040339	75.20296323
230	A230	13.25782493	75.13072937	647	A647	13.29344364	75.1456962	1064	A1064	13.33872001	75.16202389	1481	A1481	13.36047974	75.20312866
231	A231	13.25800346	75.13074654	648	A648	13.29362444	75.14570047	1065	A1065	13.33877596	75.16219951	1482	A1482	13.36056956	75.20328897
232	A232	13.25817014	75.13081779	649	A649	13.29380512	75.14570821	1066	A1066	13.33891353	75.16230995	1483	A1483	13.36065638	75.20345067
233	A233	13.25834653	75.13083443	650	A650	13.29398577	75.1457168	1067	A1067	13.33906726	75.16240723	1484	A1484	13.36071521	75.20362532
234	A234	13.25851878	75.13078574	651	A651	13.29415843	75.14574875	1068	A1068	13.33922011	75.16250495	1485	A1485	13.36077405	75.20379998
235	A235	13.2586391	75.13065448	652	A652	13.29431156	75.14584693	1069	A1069	13.339338	75.162645	1486	A1486	13.36083443	75.20397407
236	A236	13.25871708	75.1304879	653	A653	13.29446601	75.145943	1070	A1070	13.33945616	75.16278479	1487	A1487	13.36089644	75.20414757
237	A237	13.25881951	75.13033701	654	A654	13.29463172	75.14601438	1071	A1071	13.33958413	75.16291529	1488	A1488	13.36095845	75.20432108
238	A238	13.25888521	75.13016823	655	A655	13.29480313	75.14607325	1072	A1072	13.33971011	75.16304779	1489	A1489	13.3610283	75.2044914
239	A239	13.25899417	75.130022	656	A656	13.29497194	75.14613917	1073	A1073	13.33983549	75.16318088	1490	A1490	13.36109985	75.20466103
240	A240	13.25909192	75.12986877	657	A657	13.29513883	75.14621032	1074	A1074	13.33996088	75.16331398	1491	A1491	13.36118224	75.20482544
241	A241	13.25923829	75.12976112	658	A658	13.29529698	75.14629913	1075	A1075	13.34007697	75.16345553	1492	A1492	13.36125549	75.20499418
242	A242	13.2593972	75.12967764	659	A659	13.29545218	75.14639392	1076	A1076	13.34019224	75.16359784	1493	A1493	13.36130849	75.20517048
243	A243	13.25957108	75.12962687	660	A660	13.2956153	75.1464712	1077	A1077	13.3403075	75.16374016	1494	A1494	13.36133021	75.2053519
244	A244	13.25991815	75.12952341	661	A661	13.29578665	75.14653026	1078	A1078	13.34044172	75.16385591	1495	A1495	13.36132041	75.20553602

163	A163	13.24802006	75.12929802	580	A580	13.28472163	75.14089746	997	A997	13.3324588	75.15689907	1414	A1414	13.36085164	75.19211293
164	A164	13.24819605	75.12926535	581	A581	13.28485432	75.14099012	998	A998	13.33263952	75.15690578	1415	A1415	13.36095527	75.1922643
165	A165	13.24837195	75.12923146	582	A582	13.2850337	75.14096665	999	A999	13.33263952	75.15690578	1416	A1416	13.36106491	75.19241087
166	A166	13.24852207	75.1291288	583	A583	13.28521316	75.14094384	1000	A1000	13.33282035	75.15690846	1417	A1417	13.36130329	75.19268869
167	A167	13.24864944	75.12899905	584	A584	13.28539339	75.1409286	1001	A1001	13.33299978	75.15689582	1418	A1418	13.36141423	75.1928341
168	A168	13.24878175	75.12887346	585	A585	13.2855728	75.14090683	1002	A1002	13.333177	75.15685902	1419	A1419	13.3615157	75.19298699
169	A169	13.24889204	75.12872832	586	A586	13.28575092	75.14087487	1003	A1003	13.3333868	75.15677982	1420	A1420	13.36161718	75.19313988
170	A170	13.24901755	75.12859826	587	A587	13.28592941	75.14084522	1004	A1004	13.33349599	75.1566887	1421	A1421	13.36169596	75.19330435
171	A171	13.24915018	75.1284748	588	A588	13.28610819	75.14081735	1005	A1005	13.33365329	75.15659759	1422	A1422	13.36176186	75.19347587
172	A172	13.24929268	75.12836165	589	A589	13.28628696	75.14078948	1006	A1006	13.33382181	75.15658398	1423	A1423	13.36184674	75.19363897
173	A173	13.24943325	75.12824549	590	A590	13.28646574	75.14076162	1007	A1007	13.33400256	75.15659023	1424	A1424	13.36193162	75.19380206
174	A174	13.24958193	75.12814044	591	A591	13.28664637	75.14076404	1008	A1008	13.3341833	75.15659648	1425	A1425	13.36196793	75.19398194
175	A175	13.24974082	75.12805873	592	A592	13.28682715	75.14076906	1009	A1009	13.33436406	75.1565988	1426	A1426	13.36199745	75.19416417
176	A176	13.24991865	75.12803959	593	A593	13.28700793	75.14077408	1010	A1010	13.33452761	75.15666409	1427	A1427	13.36207898	75.19432864
177	A177	13.25009935	75.12803288	594	A594	13.28718872	75.14077911	1011	A1011	13.33468488	75.15675526	1428	A1428	13.36215856	75.19449371
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179	A179	13.25046086	75.12802117	596	A596	13.28754947	75.14079732	1013	A1013	13.33499943	75.15693762	1430	A1430	13.36220755	75.19485971
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181	A181	13.2508165	75.12795886	598	A598	13.28790572	75.14086121	1015	A1015	13.33531557	75.15711701	1432	A1432	13.36232036	75.19521037
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183	A183	13.25116089	75.12785183	600	A600	13.28826311	75.14081953	1017	A1017	13.33563457	75.15729111	1434	A1434	13.36244705	75.19555636
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185	A185	13.25150437	75.12774095	602	A602	13.28862065	75.14076371	1019	A1019	13.33595357	75.15746521	1436	A1436	13.36259146	75.19589482
186	A186	13.25168237	75.12770833	603	A603	13.28879942	75.1407358	1020	A1020	13.33611307	75.15755226	1437	A1437	13.36266737	75.19606246
187	A187	13.25185977	75.12767296	604	A604	13.2889782	75.14070789	1021	A1021	13.33626546	75.15765039	1438	A1438	13.36273182	75.19623278
188	A188	13.25203434	75.12762472	605	A605	13.28915697	75.14067998	1022	A1022	13.33640746	75.15776476	1439	A1439	13.36273464	75.19641746
189	A189	13.25220944	75.12757892	606	A606	13.28933614	75.14066622	1023	A1023	13.33650602	75.15790652	1440	A1440	13.36273701	75.19660214
190	A190	13.25238756	75.12754712	607	A607	13.28951618	75.1406836	1024	A1024	13.33654251	75.1580874	1441	A1441	13.36273914	75.19678683
191	A191	13.25256613	75.12756135	608	A608	13.28956285	75.14084795	1025	A1025	13.33657453	75.15826777	1442	A1442	13.36267339	75.19714742
192	A192	13.25274063	75.12760961	609	A609	13.28959353	75.14102992	1026	A1026	13.33649946	75.15843579	1443	A1443	13.36261947	75.19732372
193	A193	13.25291307	75.12766507	610	A610	13.28962258	75.14121217	1027	A1027	13.33642439	75.15860381	1444	A1444	13.36254502	75.19748824
194	A194	13.2530841	75.12772476	611	A611	13.28965132	75.14139447	1028	A1028	13.33631022	75.15873965	1445	A1445	13.36242555	75.19762689
195	A195	13.25325479	75.12778459	612	A612	13.28966229	75.14157764	1029	A1029	13.33616539	75.15885025	1446	A1446	13.36231669	75.19777325
196	A196	13.25342644	75.12784242	613	A613	13.2896507	75.14176191	1030	A1030	13.33603404	75.15897565	1447	A1447	13.362228	75.19793421
197	A197	13.25359163	75.12791713	614	A614	13.28963911	75.14194618	1031	A1031	13.33591553	75.15911516	1448	A1448	13.36211304	75.19806128
198	A198	13.25375984	75.12798478	615	A615	13.28961874	75.1421295	1032	A1032	13.33579702	75.15925466	1449	A1449	13.36193927	75.19811246
199	A199	13.25392524	75.12805938	616	A616	13.28959228	75.14231216	1033	A1033	13.33571754	75.15941773	1450	A1450	13.3617752	75.19818848
200	A200	13.25408853	75.12813856	617	A617	13.28957359	75.1424957	1034	A1034	13.33563718	75.15958317	1451	A1451	13.36162944	75.19829245
201	A201	13.25424094	75.1282352	618	A618	13.28956505	75.14267867	1035	A1035	13.33557879	75.15975758	1452	A1452	13.3615553	75.19845007
202	A202	13.25435478	75.12837736	619	A619	13.28965468	75.14283904	1036	A1036	13.33558501	75.15992743	1453	A1453	13.36157124	75.19863017
203	A203	13.25436917	75.12855805	620	A620	13.28979586	75.14294011	1037	A1037	13.33567431	75.16008803	1454	A1454	13.36164823	75.1987973



286	A286	13.26452974	75.1318355	703	A703	13.3028716	75.14754861	1120	A1120	13.34086452	75.16766423	1537	A1537	13.36582214	75.21117901
287	A287	13.2647083	75.1318615	704	A704	13.30305009	75.14757418	1121	A1121	13.34098771	75.16779944	1538	A1538	13.36596959	75.21128596
288	A288	13.26488589	75.13189635	705	A705	13.30322909	75.14759878	1122	A1122	13.34111128	75.16793429	1539	A1539	13.36611704	75.21139291
289	A289	13.26506281	75.13193464	706	A706	13.3034009	75.14765645	1123	A1123	13.34123564	75.16806838	1540	A1540	13.36626449	75.21149985
290	A290	13.26523973	75.13197292	707	A707	13.3035727	75.14771411	1124	A1124	13.34136	75.16820248	1541	A1541	13.36641194	75.2116068
291	A291	13.26541949	75.13198955	708	A708	13.30371362	75.14762398	1125	A1125	13.34149468	75.16832552	1542	A1542	13.36656475	75.21170503
292	A292	13.26559927	75.13200535	709	A709	13.30371362	75.14762398	1126	A1126	13.34163162	75.16844615	1543	A1543	13.366723	75.21179443
293	A293	13.26577485	75.13204958	710	A710	13.30378434	75.14745745	1127	A1127	13.34174846	75.16858552	1544	A1544	13.36688126	75.21188383
294	A294	13.26594959	75.13209683	711	A711	13.30384279	75.14728271	1128	A1128	13.34181818	75.16873392	1545	A1545	13.36703951	75.21197323
295	A295	13.26612283	75.13214967	712	A712	13.30389686	75.14710714	1129	A1129	13.34169835	75.16887225	1546	A1546	13.36721983	75.21198177
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297	A297	13.26642648	75.13234301	714	A714	13.30390024	75.14673827	1131	A1131	13.34145225	75.16914239	1548	A1548	13.36758126	75.21199595
298	A298	13.26659744	75.13239892	715	A715	13.30394709	75.14658802	1132	A1132	13.34131792	75.16926604	1549	A1549	13.36775582	75.21204364
299	A299	13.26677319	75.13238502	716	A716	13.30410597	75.14649979	1133	A1133	13.34122474	75.16942303	1550	A1550	13.36793018	75.21209267
300	A300	13.2669476	75.13233619	717	A717	13.30426428	75.14641085	1134	A1134	13.34113739	75.16958474	1551	A1551	13.36810455	75.21214169
301	A301	13.26712208	75.13228847	718	A718	13.30438275	75.14627133	1135	A1135	13.3410716	75.16975667	1552	A1552	13.36825314	75.2122421
302	A302	13.26729515	75.13223528	719	A719	13.30450123	75.14613181	1136	A1136	13.34100725	75.16992926	1553	A1553	13.368394	75.21235794
303	A303	13.26747268	75.13220078	720	A720	13.3046197	75.1459923	1137	A1137	13.34096335	75.17010842	1554	A1554	13.36852789	75.21248192
304	A304	13.2676523	75.13218157	721	A721	13.30473033	75.14584635	1138	A1138	13.34098753	75.17028651	1555	A1555	13.36865892	75.21260923
305	A305	13.26783236	75.13219595	722	A722	13.304838	75.14569799	1139	A1139	13.34103683	75.1704642	1556	A1556	13.36878994	75.21273654
306	A306	13.26801112	75.13222336	723	A723	13.30494568	75.14554963	1140	A1140	13.34106254	75.17064427	1557	A1557	13.36893414	75.21284608
307	A307	13.26817176	75.13230388	724	A724	13.30505367	75.14540152	1141	A1141	13.34108023	75.17082205	1558	A1558	13.3690897	75.21294027
308	A308	13.26827378	75.1324529	725	A725	13.30516695	75.14525757	1142	A1142	13.34116055	75.17098752	1559	A1559	13.36924677	75.2130318
309	A309	13.26839051	75.13259108	726	A726	13.30528022	75.14511361	1143	A1143	13.34124835	75.17114839	1560	A1560	13.36940467	75.21312184
310	A310	13.26846017	75.13276069	727	A727	13.30539349	75.14496966	1144	A1144	13.34136517	75.17127187	1561	A1561	13.36955653	75.21322182
311	A311	13.26850029	75.13294065	728	A728	13.30550676	75.14482571	1145	A1145	13.34154447	75.17124771	1562	A1562	13.36970555	75.21332648
312	A312	13.26855219	75.13311703	729	A729	13.30562004	75.14468176	1146	A1146	13.34172258	75.17125516	1563	A1563	13.36986433	75.21341459
313	A313	13.26859222	75.13329605	730	A730	13.30574946	75.14455324	1147	A1147	13.34189955	75.17129322	1564	A1564	13.37002451	75.21350034
314	A314	13.26862741	75.13347715	731	A731	13.30588261	75.14442827	1148	A1148	13.34207836	75.17129643	1565	A1565	13.37017747	75.21359771
315	A315	13.26866259	75.13365825	732	A732	13.30602848	75.14432779	1149	A1149	13.34225832	75.17127814	1566	A1566	13.37032163	75.21370923
316	A316	13.26870127	75.13383859	733	A733	13.30620447	75.14428529	1150	A1150	13.342438	75.17125731	1567	A1567	13.37047053	75.21381373
317	A317	13.26874259	75.13401833	734	A734	13.30637759	75.1442323	1151	A1151	13.34261764	75.17123602	1568	A1568	13.3706278	75.21390053
318	A318	13.2687837	75.13419697	735	A735	13.30654884	75.14417293	1152	A1152	13.34279728	75.17121473	1569	A1569	13.37080737	75.21392243
319	A319	13.26887433	75.13433794	736	A736	13.30671685	75.14410462	1153	A1153	13.34297685	75.17119283	1570	A1570	13.37098399	75.21395778
320	A320	13.26903476	75.13444229	737	A737	13.3068848	75.14403614	1154	A1154	13.34315622	75.17116925	1571	A1571	13.37114442	75.21403734
321	A321	13.26919621	75.13450611	738	A738	13.30705276	75.14396766	1155	A1155	13.34333479	75.17117417	1572	A1572	13.37128762	75.21415011
322	A322	13.26935765	75.13458931	739	A739	13.30722004	75.14389782	1156	A1156	13.34351255	75.17120817	1573	A1573	13.3714347	75.21425759
323	A323	13.26952167	75.13466625	740	A740	13.3073739	75.14380078	1157	A1157	13.34367795	75.17127349	1574	A1574	13.37157683	75.21437178
324	A324	13.26969086	75.13473146	741	A741	13.30752777	75.14370373	1158	A1158	13.34382911	75.17137488	1575	A1575	13.37171928	75.21448487
325	A325	13.26985938	75.13479824	742	A742	13.30768163	75.14360669	1159	A1159	13.34393716	75.1715089	1576	A1576	13.37188485	75.21455918
326	A326	13.27003007	75.13485926	743	A743	13.30784711	75.14353359	1160	A1160	13.34398818	75.17168608	1577	A1577	13.37205906	75.21459423

327	A327	13.27018219	75.1349526	744	A744	13.30801598	75.1434675	1161	A1161	13.34403898	75.17186332	1578	A1578	13.37222834	75.21452922
328	A328	13.27029174	75.13509198	745	A745	13.30819366	75.14343527	1162	A1162	13.34406949	75.17204536	1579	A1579	13.37239761	75.21446422
329	A329	13.27039668	75.13524217	746	A746	13.30837239	75.14340705	1163	A1163	13.34414757	75.17220795	1580	A1580	13.37257531	75.21443005
330	A330	13.27045347	75.13541062	747	A747	13.30855028	75.14338477	1164	A1164	13.34424856	75.17236115	1581	A1581	13.37275324	75.21446187
331	A331	13.27051722	75.1355832	748	A748	13.30870505	75.1434803	1165	A1165	13.34433837	75.17252113	1582	A1582	13.37293165	75.21449184
332	A332	13.27058624	75.13575385	749	A749	13.30885824	75.14357836	1166	A1166	13.34450302	75.17285	1583	A1583	13.37311183	75.21449589
333	A333	13.27065	75.13592656	750	A750	13.30900881	75.14368066	1167	A1167	13.34458287	75.17301571	1584	A1584	13.37329203	75.21448141
334	A334	13.27074852	75.13607173	751	A751	13.30915937	75.14378296	1168	A1168	13.34466271	75.17318143	1585	A1585	13.37346894	75.21444413
335	A335	13.27088763	75.13618939	752	A752	13.30933586	75.14378094	1169	A1169	13.34472951	75.17335293	1586	A1586	13.37362672	75.21435707
336	A336	13.27103082	75.136296	753	A753	13.30951598	75.14376435	1170	A1170	13.34465362	75.17349382	1587	A1587	13.37378004	75.21425912
337	A337	13.27118666	75.13638969	754	A754	13.30969376	75.14373257	1171	A1171	13.34452385	75.17362245	1588	A1588	13.37394992	75.21419814
338	A338	13.2713425	75.13648337	755	A755	13.30987017	75.14369189	1172	A1172	13.34441726	75.17376187	1589	A1589	13.37412275	75.21414375
339	A339	13.27149864	75.13657653	756	A756	13.3100347	75.14362031	1173	A1173	13.34440732	75.17394655	1590	A1590	13.37429442	75.21408662
340	A340	13.27165538	75.13666865	757	A757	13.31020995	75.14358947	1174	A1174	13.34439577	75.17413059	1591	A1591	13.37446057	75.2140137
341	A341	13.27181193	75.13676109	758	A758	13.31039026	75.14357532	1175	A1175	13.34438421	75.1743149	1592	A1592	13.37462673	75.21394077
342	A342	13.27196792	75.13685451	759	A759	13.31057058	75.14356116	1176	A1176	13.34437264	75.17449921	1593	A1593	13.37479288	75.21386784
343	A343	13.27212358	75.1369485	760	A760	13.31075079	75.14354637	1177	A1177	13.34451004	75.174546	1594	A1594	13.37495664	75.21378968
344	A344	13.27227801	75.13704453	761	A761	13.31092467	75.14349561	1178	A1178	13.34468609	75.17452066	1595	A1595	13.37511769	75.21370567
345	A345	13.27243075	75.13714341	762	A762	13.31109855	75.14344485	1179	A1179	13.34485709	75.17446054	1596	A1596	13.37527875	75.21362165
346	A346	13.27258977	75.13723057	763	A763	13.31126254	75.1433728	1180	A1180	13.34502809	75.17440042	1597	A1597	13.37543981	75.21353764
347	A347	13.27276517	75.13726285	764	A764	13.31141105	75.14326741	1181	A1181	13.34519922	75.17434092	1598	A1598	13.37560111	75.21345411
348	A348	13.27294358	75.13723832	765	A765	13.31156514	75.14317185	1182	A1182	13.3453795	75.17432634	1599	A1599	13.39072915	75.22117612
349	A349	13.27312021	75.13719901	766	A766	13.31172846	75.14309255	1183	A1183	13.34555965	75.17431429	1600	A1600	13.39079802	75.22134623
350	A350	13.2732911	75.13713893	767	A767	13.31189683	75.14306936	1184	A1184	13.34573726	75.17434908	1601	A1601	13.39083656	75.22152671
351	A351	13.27345798	75.13706882	768	A768	13.31207156	75.143117	1185	A1185	13.34589579	75.17443309	1602	A1602	13.39090247	75.22169818
352	A352	13.27362316	75.13700391	769	A769	13.31223199	75.14319475	1186	A1186	13.34602512	75.17455882	1603	A1603	13.39097339	75.22186794
353	A353	13.27380039	75.13700008	770	A770	13.31237686	75.14330529	1187	A1187	13.34609836	75.17472536	1604	A1604	13.39102599	75.22204467
354	A354	13.27397535	75.13704619	771	A771	13.31252382	75.14341284	1188	A1188	13.34613477	75.17490395	1605	A1605	13.3910811	75.22222055
355	A355	13.27413426	75.13713429	772	A772	13.31265395	75.14352855	1189	A1189	13.34613306	75.17508826	1606	A1606	13.39114412	75.22239369
356	A356	13.27428796	75.1372315	773	A773	13.31267168	75.14371232	1190	A1190	13.34609799	75.17526938	1607	A1607	13.39120714	75.22256684
357	A357	13.274441	75.13732988	774	A774	13.31274621	75.14386891	1191	A1191	13.34602317	75.17543752	1608	A1608	13.391261	75.22274311
358	A358	13.27457808	75.13744914	775	A775	13.31287646	75.1439966	1192	A1192	13.3459488	75.17560586	1609	A1609	13.39131237	75.22292022
359	A359	13.27472798	75.13754811	776	A776	13.31302332	75.14409347	1193	A1193	13.34588219	75.17577757	1610	A1610	13.39137226	75.22309441
360	A360	13.27490145	75.13760033	777	A777	13.31319742	75.14404349	1194	A1194	13.34596057	75.17592332	1611	A1611	13.39141915	75.22327235
361	A361	13.27507657	75.13764603	778	A778	13.31337152	75.1439935	1195	A1195	13.34612953	75.17596432	1612	A1612	13.39146498	75.22345056
362	A362	13.27525305	75.13768636	779	A779	13.31354422	75.14393891	1196	A1196	13.3463089	75.17594164	1613	A1613	13.39153355	75.22362128
363	A363	13.27542657	75.13773831	780	A780	13.31371537	75.14387926	1197	A1197	13.34646346	75.17600682	1614	A1614	13.39161936	75.22378388
364	A364	13.27560147	75.13777179	781	A781	13.31388652	75.1438196	1198	A1198	13.3466039	75.17612319	1615	A1615	13.39170952	75.22394397
365	A365	13.27578115	75.13775087	782	A782	13.31405767	75.14375994	1199	A1199	13.34672136	75.1762579	1616	A1616	13.39180216	75.22410218
366	A366	13.27596143	75.13773664	783	A783	13.31423555	75.14375393	1200	A1200	13.34679802	75.17642518	1617	A1617	13.39186669	75.22427514
367	A367	13.27614188	75.13772437	784	A784	13.31441591	75.14376761	1201	A1201	13.34687432	75.17659262	1618	A1618	13.39191363	75.22445337

368	A368	13.27631796	75.13768808	785	A785	13.31459626	75.1437813	1202	A1202	13.34694562	75.17676235	1619	A1619	13.39195965	75.22463201
369	A369	13.27649066	75.1376333	786	A786	13.31477655	75.14379574	1203	A1203	13.34694942	75.17692634	1620	A1620	13.39197814	75.22481476
370	A370	13.27666337	75.13757852	787	A787	13.31495674	75.14381154	1204	A1204	13.34686079	75.17708665	1621	A1621	13.3919801	75.22499943
371	A371	13.27683608	75.13752375	788	A788	13.31513707	75.14382532	1205	A1205	13.34678993	75.17725657	1622	A1622	13.39197015	75.22518379
372	A372	13.27700879	75.13746897	789	A789	13.31531759	75.14383643	1206	A1206	13.34671906	75.1774265	1623	A1623	13.39196587	75.22536842
373	A373	13.27718657	75.13745149	790	A790	13.31549811	75.14384753	1207	A1207	13.3466482	75.17759642	1624	A1624	13.39199276	75.22554997
374	A374	13.27736736	75.13745614	791	A791	13.31567632	75.14383883	1208	A1208	13.34659625	75.17777307	1625	A1625	13.39200385	75.22573427
375	A375	13.27754815	75.1374608	792	A792	13.31584924	75.14378472	1209	A1209	13.3465483	75.17795115	1626	A1626	13.39199643	75.22591869
376	A376	13.27772895	75.13746545	793	A793	13.31601812	75.14371908	1210	A1210	13.34650951	75.17813116	1627	A1627	13.39198372	75.22610288
377	A377	13.27790974	75.13747011	794	A794	13.31618548	75.14364911	1211	A1211	13.34653563	75.17830742	1628	A1628	13.39197945	75.22628749
378	A378	13.27808916	75.13749163	795	A795	13.31635284	75.14357913	1212	A1212	13.34660489	75.17847803	1629	A1629	13.39195291	75.22646938
379	A379	13.27826825	75.13751737	796	A796	13.3165202	75.14350915	1213	A1213	13.34667415	75.17864864	1630	A1630	13.39188171	75.22663864
380	A380	13.27844733	75.13754312	797	A797	13.31666983	75.14341083	1214	A1214	13.34670291	75.17882996	1631	A1631	13.39179322	75.22679968
381	A381	13.27862641	75.13756886	798	A798	13.3168023	75.14328513	1215	A1215	13.3467235	75.17901345	1632	A1632	13.39169561	75.226955
382	A382	13.2788055	75.13759461	799	A799	13.31693478	75.14315942	1216	A1216	13.34676144	75.17918573	1633	A1633	13.39158176	75.22709832
383	A383	13.27898458	75.13762035	800	A800	13.31706727	75.14303371	1217	A1217	13.34692258	75.17926472	1634	A1634	13.39143323	75.22719922
384	A384	13.27916366	75.1376461	801	A801	13.31722475	75.14294299	1218	A1218	13.34709704	75.1793112	1635	A1635	13.39127562	75.22728961
385	A385	13.27934275	75.13767184	802	A802	13.31738238	75.14285247	1219	A1219	13.34724835	75.17941083	1636	A1636	13.39114789	75.22741927
386	A386	13.27952307	75.13765774	803	A803	13.31754354	75.14281687	1220	A1220	13.34725506	75.17958083	1637	A1637	13.39116429	75.22759272
387	A387	13.27969219	75.13760472	804	A804	13.31771138	75.14288562	1221	A1221	13.34719671	75.17974967	1638	A1638	13.39126699	75.22774424
388	A388	13.27982285	75.13748202	805	A805	13.31787923	75.14295438	1222	A1222	13.34706206	75.17987296	1639	A1639	13.39138983	75.22787953
389	A389	13.27989526	75.13731284	806	A806	13.318046	75.14302576	1223	A1223	13.34692741	75.17999625	1640	A1640	13.39151409	75.22801363
390	A390	13.28002402	75.13718364	807	A807	13.31821196	75.14309916	1224	A1224	13.34678982	75.18011599	1641	A1641	13.39163701	75.22814904
391	A391	13.28016332	75.1370659	808	A808	13.31838232	75.1431575	1225	A1225	13.3466486	75.18023138	1642	A1642	13.39178242	75.22825778
392	A392	13.28030763	75.13695663	809	A809	13.31856037	75.14318259	1226	A1226	13.34652513	75.18036579	1643	A1643	13.39194937	75.22832613
393	A393	13.28047763	75.1368953	810	A810	13.31873755	75.14314557	1227	A1227	13.34644156	75.18052152	1644	A1644	13.39212546	75.2283675
394	A394	13.28065391	75.13685404	811	A811	13.31891633	75.14312752	1228	A1228	13.34641474	75.18070412	1645	A1645	13.39230425	75.22837379
395	A395	13.28083073	75.13681529	812	A812	13.3190971	75.14313308	1229	A1229	13.34640901	75.18088871	1646	A1646	13.39248401	75.22835371
396	A396	13.28100716	75.13684466	813	A813	13.31927787	75.14313864	1230	A1230	13.34635992	75.18105982	1647	A1647	13.3926633	75.2283295
397	A397	13.28118415	75.13688243	814	A814	13.31945021	75.14318737	1231	A1231	13.34626387	75.1812163	1648	A1648	13.39283397	75.22826852
398	A398	13.2813636	75.136888	815	A815	13.31961926	75.14325298	1232	A1232	13.34616773	75.18137272	1649	A1649	13.39300389	75.228263
399	A399	13.28154324	75.13687267	816	A816	13.31979051	75.14331096	1233	A1233	13.34602182	75.18148183	1650	A1650	13.39314144	75.22838291
400	A400	13.28170901	75.13697887	817	A817	13.31996739	75.14334944	1234	A1234	13.34587579	75.18158714	1651	A1651	13.39328497	75.22849502
401	A401	13.28186028	75.13669994	818	A818	13.32013737	75.14334653	1235	A1235	13.34572367	75.18148726	1652	A1652	13.39344712	75.22857617
402	A402	13.28195496	75.13654441	819	A819	13.32029183	75.14325047	1236	A1236	13.34556598	75.1814072	1653	A1653	13.39360753	75.22866147
403	A403	13.28201339	75.13637093	820	A820	13.32044629	75.14315441	1237	A1237	13.34538515	75.18140948	1654	A1654	13.39375391	75.22876956
404	A404	13.28202848	75.13618916	821	A821	13.32060074	75.14305835	1238	A1238	13.34532632	75.18156937	1655	A1655	13.39390325	75.22887274
405	A405	13.28201022	75.13600546	822	A822	13.32073012	75.14292999	1239	A1239	13.34528241	75.18174854	1656	A1656	13.39406085	75.22896311
406	A406	13.2819125	75.13585187	823	A823	13.32085996	75.14280144	1240	A1240	13.34519775	75.18191071	1657	A1657	13.39419754	75.22908118
407	A407	13.281799	75.13570812	824	A824	13.32098981	75.1426729	1241	A1241	13.34509533	75.18206179	1658	A1658	13.39428806	75.22924036
408	A408	13.28167061	75.13557815	825	A825	13.32112131	75.14254654	1242	A1242	13.34497354	75.18219832	1659	A1659	13.39436838	75.22940585

409	A409	13.28154186	75.13544852	826	A826	13.32127912	75.1424565	1243	A1243	13.34485175	75.18233485	1660	A1660	13.39445813	75.22956617
410	A410	13.28142371	75.13531115	827	A827	13.32143887	75.14236992	1244	A1244	13.34470296	75.18243123	1661	A1661	13.39461944	75.22964713
411	A411	13.28130701	75.13517097	828	A828	13.32160164	75.1422886	1245	A1245	13.34453444	75.18249826	1662	A1662	13.39479227	75.22969989
412	A412	13.28116557	75.1350568	829	A829	13.32176599	75.14221254	1246	A1246	13.34441652	75.18263286	1663	A1663	13.39496657	75.22974896
413	A413	13.28102947	75.13493534	830	A830	13.32194387	75.14221144	1247	A1247	13.34429914	75.18277254	1664	A1664	13.39509644	75.22986962
414	A414	13.28090173	75.13480606	831	A831	13.32212427	75.14222447	1248	A1248	13.34416901	75.18290079	1665	A1665	13.3951785	75.23003354
415	A415	13.2808025	75.1346517	832	A832	13.3222978	75.14219715	1249	A1249	13.34401559	75.18299459	1666	A1666	13.39527317	75.23019049
416	A416	13.28074933	75.13448005	833	A833	13.32246332	75.14212274	1250	A1250	13.34385459	75.18307692	1667	A1667	13.39538672	75.23033401
417	A417	13.28073894	75.1343006	834	A834	13.32263873	75.14208555	1251	A1251	13.34373302	75.18321366	1668	A1668	13.39550709	75.2304714

## 1.6 Project Cost:

Proposed route from Karkala to Sringeri is \_34\_ km in forest area and 23 km in non-forest area. Cost of lying of optical fiber cable is 250rupees per meter and total project cost is about \_14 Cr.