

15 -ാം കേരള നിയമസഭ

13 -ാം സമ്മേളനം

നക്ഷത്ര ചിഹ്നം ഇല്ലാത്ത ചോദ്യം നം. 3898

17-03-2025 - ൽ മറുപടിയ്ക്ക്

തീരദേശ റെഗുലേഷൻ സോൺ

ചോദ്യം		ഉത്തരം	
ശ്രീ എച്ച് സലാം		ശ്രീ പിണറായി വിജയൻ (മുഖ്യമന്ത്രി)	
(എ)	സംസ്ഥാനത്തെ ഏതൊക്കെ പഞ്ചായത്തുകൾക്കാണ് തീരദേശ റെഗുലേഷൻ സോൺ മൂന്നിൽ നിന്ന് രണ്ടിലേക്ക് അനുമതി ലഭിച്ചിട്ടുള്ളത്;	(എ)	സംസ്ഥാനത്തെ 66 ഗ്രാമ പഞ്ചായത്തുകൾക്കാണ് തീരദേശ റെഗുലേഷൻ സോൺ മൂന്നിൽ നിന്ന് രണ്ടിലേക്ക് അനുമതി ലഭിച്ചിട്ടുള്ളത്. പ്രസ്തുത പഞ്ചായത്തുകളുടെ പട്ടിക അനുബന്ധം 1 ആയി ചേർക്കുന്നു.
(ബി)	അറ്റോമിക് മിനറൽസിന്റെ സാന്നിധ്യമുള്ള ആലപ്പുഴ ജില്ലയിലെ അമ്പലപ്പുഴ തെക്ക് പഞ്ചായത്തിലെ പ്രദേശങ്ങളെ തീരദേശ റെഗുലേഷൻ സോൺ മൂന്ന്-എ-യിലും, അമ്പലപ്പുഴ വടക്ക് പഞ്ചായത്തിലെ പ്രദേശങ്ങളെ തീരദേശ റെഗുലേഷൻ സോൺ മൂന്ന്-ബി-യിലും ഉൾപ്പെടുത്തിയിട്ടുണ്ടോ;	(ബി)	ഉണ്ട്.
(സി)	ഇതിന് അടിസ്ഥാനമായ അറ്റോമിക് മിനറൽസിന്റെ സാന്നിധ്യം പ്രസ്തുത പ്രദേശങ്ങളിൽ കണ്ടെത്തിയത് എപ്പോഴാണെന്നും ആര് തയ്യാറാക്കിയ റിപ്പോർട്ടിന്റെ അടിസ്ഥാനത്തിലാണെന്നും വ്യക്തമാക്കുമോ; ടി റിപ്പോർട്ടിന്റെ പകർപ്പ് ലഭ്യമാക്കുമോ?	(സി)	സി.ആർ.ഇസഡ് II-ൽ ഉൾപ്പെടുന്ന ചില പ്രദേശങ്ങളിൽ അറ്റോമിക് മിനറൽസിന്റെ സാന്നിധ്യമുള്ളതായി ഡയറക്ടർ, അറ്റോമിക് മിനറൽസ് ഡയറക്ടറേറ്റ് ഫോർ എക്സ്പ്ലോറേഷൻ ആന്റ് റിസർച്ച് റിപ്പോർട്ട് നൽകിയതിന്റെ അടിസ്ഥാനത്തിൽ Indian Rare Earth Ltd (IREL) അറ്റോമിക് മിനറൽസിന്റെ സാന്നിധ്യമുള്ള പ്രദേശങ്ങളുടെ വിശദാംശങ്ങൾ തയ്യാറാക്കി സമർപ്പിച്ചിരുന്നു. ആയതിന്റെ പകർപ്പ് അനുബന്ധം II ആയി ചേർക്കുന്നു.

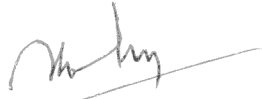
സെക്ഷൻ ഓഫീസർ

CRZ II ആയി തരം തിരിച്ച 66 ഗ്രാമപഞ്ചായത്തുകൾ

കാസർകോഡ്	
1	അജാനൂർ
2	ചെങ്കള
3	മൊഗ്രാൽ - പുത്തൂർ
4	പള്ളിക്കര
5	പുല്ലൂർ - പെരിയ
6	തൃക്കരിപ്പൂർ
7	ഉദുമ
കണ്ണൂർ	
1	അഴീക്കോട്
2	ചെറുകുന്ന്
3	ചിറക്കൽ
4	ചൊക്ലി
5	കല്ലിശ്ശേരി
6	കണ്ണപുരം
7	മാറ്റുൽ
8	ന്യൂ മാഹി
9	പാപ്പിനിശ്ശേരി
10	രാമന്താളി
11	വളപട്ടണം
കോഴിക്കോട് ജില്ല	
1	അത്തോളി
2	അഴിയൂർ
3	ബാലുശ്ശേരി
4	ചേളന്നൂർ
5	ചേമഞ്ചേരി
6	ചെങ്ങോട്ട്കാവ്
7	ചോറോട്
8	എടച്ചേരി
9	ഏറാമല

10	കടലുണ്ടി
11	കക്കോടി
12	കോട്ടൂർ
13	മാവൂർ
14	മുടാടി
15	നടുവണ്ണൂർ
16	ഒളവണ്ണ
17	പെരുമണ്ണ
18	പെരുവയൽ
19	തലക്കുളത്തൂർ
20	തിക്കോടി
21	തിരുവള്ളൂർ
22	ഉള്ളിയേരി
മലപ്പുറം ജില്ല	
1	ചേലേമ്പ്ര
2	തേഞ്ഞിപ്പാലം
3	വാഴക്കാട്
4	വാഴയൂർ
തൃശ്ശൂർ ജില്ല	
1	പാവറട്ടി
എറണാകുളം ജില്ല	
1	ചെല്ലാനം
2	ചേരനല്ലൂർ
3	ഏളങ്കുന്നപ്പുഴ
4	കടമക്കുടി
5	കുമ്പളം
6	കുമ്പളങ്ങി
7	മുളവുക്കാട്
8	നായരമ്പലം
9	ഞാറയ്ക്കൽ
10	വാരാപ്പുഴ

കോട്ടയം ജില്ല ഇല്ല	
ആലപ്പുഴ ജില്ല	
1	അമ്പലപ്പുഴ തെക്ക്
2	അമ്പലപ്പുഴ വടക്ക്
തിരുവനന്തപുരം ജില്ല	
1	അണ്ടൂർക്കോണം
2	ചെങ്കൽ
3	ചിറയിൻകീഴ്
4	കടയ്ക്കാവൂർ
5	കരുംകുളം
6	കോട്ടുകാൽ
7	മംഗലാപുരം
8	വക്കം
9	വെങ്ങാനൂർ


 സെക്ഷൻ ഓഫീസർ.



आई आर ई एल (इंडिया) लिमिटेड
IREL (India) Limited
 (Formerly Indian Rare Earths Limited)
 (भारत सरकार का उपक्रम)
 (A Govt. of India undertaking)

CIN : U15100MH1950GOI008187 Website : www.irel.co.in

ISO 9001:2015 & ISO 14001:2015 & ISO 45001:2018 Company



CH/MNG/CRZ/2022
 04-04-2022

The Member Secretary,
 Kerala Coastal Zone Management Authority,
 Thiruvananthapuram.

Sir,

Sub:- Conservation and extraction of atomic mineral resources in the coastal stretches of Kerala State – Reg

Ref:- E- mail from KCZMA dated 04-04-2022

Reference is invited to the following letters from the Chairman, AEC & Secretary, DAE, Government of India to the Chief Secretary, Government of Kerala.

- (1) Letter No.3/10(17)/2018/PSU/7415 dated 12-6-2018 requesting to initiate measures to retain the land use pattern until the minerals are extracted from the deposits, with a view to conserve the minerals of strategic importance.
- (2) The DO letter No. 3/10(17)/2018-PSU/5899 dated 8-5-2019 requesting to issue directions to include a clause in the CZMP that CRZ-III A area having Atomic Minerals as per AMCR-2016 are required to take NOC from DAE in event of any construction/tourism/infrastructure developmental activities.
- (3) Letter No.65/2021 dated 16-4-2021 to consider the recategorization of certain number of coastal panchayaths from CRZ-III to CRZ-II in a phased manner, subsequent to completion of mining of atomic minerals by IREL.

Reference is also invited to the meeting held on 18.10.2021, on VC mode, between CMD, IREL and Addl. Chief Secretary, Dept of Environment, Government of Kerala on the issues pertaining to conservation of Atomic Minerals available in the costal stretches of Kerala State highlighting the concerns in the event of re-categorization from CRZ-III to CRZ-II. While concluding, Govt. of Kerala agreed for submitting a proposal to MoEF & CC for issuing necessary amendment to CRZ-II norms under CRZ-2019 notification thereby permitting mechanized mining for extraction of atomic minerals through the agencies duly authorized by Department of Atomic Energy.

amms
 11/4/22

आई आर ई एल (इंडिया) लिमिटेड, चवरा, कोल्लम, केरल राज्य, भारत-691 583
 IREL (India) Limited, Chavara, Kollam, Kerala State, India-691 583
 फोन / Tel. : 0476-2680701 - 5 फेक्स / Fax : 0476-2680141

पंजीकृत कार्यालय : प्लॉट नं 1207, वीर सावरकर मार्ग, सिद्धिविनायक मंदिर के पास, प्रभादेवी, मुंबई-400 028
 Regd. Office: Plot No.1207, Veer Savarkar Marg, Near Siddhivinayak Temple, Prabhadevi, Mumbai – 400 028
 फोन / Tel. : 022 - 2421 1630 / 2438 2042 फेक्स / Fax : 022 - 2422 0236

As you are aware, IREL (India) Ltd, a CPSU under the DAE and Kerala Minerals and Metals Ltd, Kerala State PSU are carrying out mining of atomic minerals presently in panchayaths in Kollam district viz; Neendakara, Chavara, Panmana and Alappad. It may please be noted that the Ilmenite feed stock requirements of state PSUs KMML, TTPL and other industries in Kerala i.e CMRL are being met by IREL.

Subsequently, KCZMA, Govt. of Kerala requested IREL to submit a list of panchayaths which need to be considered during the recategorization from CRZ-III to CRZ-II.

In this connection it is submitted that Atomic Minerals Directorate for Exploration and Research (AMD) an exploration organization under Department of Atomic Energy carried out exploration in other coastal panchayath zones of the State and availability of atomic minerals are proven. Based on the AMD exploration details, it is noted that coastal panchayath areas stretching in Thiruvananthapuram, Kollam and Alappuzha districts have sizeable concentration of atomic mineral reserves. Further, Karode, Kulathur, Poovar, Karumkulam, Kottukkal, Venganoor, Kadinamkulam, Azhoor, Chirayinkeezhu, Anchuthengu, Vettoor, Edava, Poothakkulam, Mayyanad, Neendakara, Chavara, Panmana, Alappad, Kulasekharapuram, Clappana, Arattupuzha, Thrikkunnappuzha, Purakkad, Ambalapuzha South and Ambalapuzha North are few among the total coastal Panchayaths, where AMD has proven the sizeable concentration of Atomic Minerals. Department of Atomic Energy, Government of India is in the process of nominating prospective government companies under AMCR-2016 after receiving precise areas details from State Govt.towards undertaking mining activities for extraction of Atomic Minerals. The atomic mineral from these potential coastal areas need to be extracted on priority basis.

Therefore, it is submitted that the proposed recategorization of coastal areas in the above cited coastal panchayaths from CRZ -III to CRZ-II under CRZ-2019 notification may be taken up keeping in view the sustainable mining / extraction activities of atomic minerals by IREL and KMML in such panchayath areas, so that the atomic minerals are mined / extracted from these deposits to the maximum extent possible before they are sterilized due to various development/construction activities.

Thanking you,

For IREL (India) Limited,


General Manager & Unit Head 4/4/22



आईआरईएल (इंडिया) लिमिटेड
IREL (India) Limited
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(भारत सरकार का उपक्रम)
(A Govt. of India Undertaking)

CIN : U15100MH1950GOI008187 Website : www.irel.co.in

ISO 9001:2015 & ISO 14001:2015 Company



15.10.2022

To

Additional Chief Secretary
Home, Vigilance and Environment Depts.
Government Secretariat
Govt. of Kerala
Thiruvananthapuram : 695 001.

Sir,

Sub: Re-Categorization of coastal lands from CRZ-III to CRZ-II notification in 66 Panchayats proposed by Govt. of Kerala. Geo-coordinates details of atomic mineral (BSM) deposits requested by ACS, Department of Environment, Govt. of Kerala for conservation – reg.

Ref: Letter Ref.D.O.No.B3/102/2019/Envnt dated 14.09.2022

Further to the above cited letter, the details of contiguous area with atomic minerals (BSM) deposits along with geo-coordinates as received from the Director, AMDER, Hyderabad is attached for kind reference.

With regards,

For IREL (India) Limited

General Manager and Head

cc to : Director, Dept. of Environment, Govt. of Kerala.

आई आर ई एल (इंडिया) लिमिटेड, चवरा, कोल्लम, केरल राज्य, भारत-691583, फोन: 0476-2680701-5, फैक्स: 0476-2680141
IREL(India) Limited, Chavara, Kollam, Kerala State, India-691583, Tel.: 0476-2680701-5, Fax : 0476-2680141

पंजीकृत कार्यालय: प्लॉट नं. 1207, वीर सावरकर मार्ग, सिद्धिविनायक मंदिर के पास, प्रभादेवी, मुंबई - 400 028.

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**MINERAL BLOCK: NEERODI- KARIMKULAM (AREA-I & II),
THIRUVANANTHAPURAM DISTRICT, KERALA**

Area - I

Sl.No.	Latitude	Longitude	Northing	Easting
1	8° 18' 1.040" N	77° 5' 12.920" E	918100.004	729854.7493
2	8° 18' 4.650" N	77° 5' 15.720" E	918211.3862	729939.8672
3	8° 18' 8.960" N	77° 5' 19.010" E	918344.3579	730039.8689
4	8° 18' 14.060" N	77° 5' 22.970" E	918501.714	730160.2489
5	8° 18' 21.050" N	77° 5' 27.900" E	918717.3048	730310.0102
6	8° 18' 13.152" N	77° 5' 37.917" E	918476.2377	730617.8969
7	8° 18' 0.986" N	77° 5' 54.078" E	918105.0028	731114.5218
8	8° 17' 48.960" N	77° 6' 9.770" E	917737.9837	731596.7704
9	8° 17' 32.440" N	77° 6' 5.160" E	917229.5908	731458.3534
10	8° 17' 24.590" N	77° 6' 12.580" E	916989.5693	731686.7464
11	8° 17' 19.950" N	77° 6' 11.760" E	916846.853	731662.4031
12	8° 17' 18.130" N	77° 6' 10.500" E	916790.7217	731624.132
		Area - II		
1	8° 19' 1.414" N	77° 3' 53.176" E	919942.4251	727404.3358
2	8° 19' 23.900" N	77° 3' 23.623" E	920628.6721	726496.2533
3	8° 19' 36.600" N	77° 3' 10.550" E	921016.8544	726094.1109
4	8° 19' 47.760" N	77° 3' 20.010" E	921361.2865	726381.8504
5	8° 19' 35.270" N	77° 3' 35.420" E	920979.9436	726855.4703
6	8° 19' 23.310" N	77° 3' 50.910" E	920614.9027	727331.4622
7	8° 19' 23.071" N	77° 3' 50.900" E	920607.5712	727331.1905
8	8° 19' 14.180" N	77° 3' 51.710" E	920334.4793	727357.4099
9	8° 19' 7.280" N	77° 3' 54.520" E	920122.9014	727444.5175
10	8° 18' 59.350" N	77° 4' 4.950" E	919880.8905	727765.0102
11	8° 18' 54.430" N	77° 4' 6.580" E	919729.9666	727815.687
12	8° 18' 50.640" N	77° 4' 11.100" E	919614.2282	727954.636
13	8° 18' 47.108" N	77° 4' 23.532" E	919507.6925	728335.713
14	8° 18' 48.712" N	77° 4' 27.170" E	919557.5437	728446.7827
15	8° 18' 47.531" N	77° 4' 27.687" E	919521.3366	728462.8166
16	8° 18' 46.570" N	77° 4' 28.108" E	919491.8991	728475.8526
17	8° 18' 41.054" N	77° 4' 27.089" E	919322.2254	728445.5537
18	8° 18' 38.899" N	77° 4' 30.172" E	919256.5059	728540.2586
19	8° 18' 39.810" N	77° 4' 33.100" E	919284.9603	728629.7188
20	8° 18' 36.231" N	77° 4' 37.562" E	919175.7019	728766.8614
21	8° 18' 34.359" N	77° 4' 35.579" E	919117.8586	728706.4655
22	8° 18' 31.330" N	77° 4' 32.370" E	919024.2641	728608.7407

MINERAL BLOCK: VIZHINJAM-KOVALAM-PACHALLUR (AREA-I,II & III)
THIRUVANANTHAPURAM DISTRICT, KERALA

Area - I

Sl.No.	Latitude	Longitude	Northing	Easting			Area - III		
1	8° 23' 24.870" N	76° 58' 25.520" E	927986.4706	717335.8474	1	8° 24' 9.140" N	76° 58' 15.890" E	929345.2692	717034.3474
2	8° 23' 26.270" N	76° 58' 25.670" E	928029.5114	717340.2201	2	8° 24' 14.497" N	76° 58' 14.705" E	929509.6824	716997.2638
3	8° 23' 24.650" N	76° 58' 30.720" E	927980.5111	717494.9935	3	8° 24' 18.788" N	76° 58' 12.803" E	929641.2571	716938.4147
4	8° 23' 19.080" N	76° 58' 34.910" E	927810.0168	717624.0501	4	8° 24' 26.549" N	76° 58' 8.563" E	929879.0715	716807.4774
5	8° 23' 13.640" N	76° 58' 35.440" E	927642.934	717641.1221	5	8° 24' 30.224" N	76° 58' 6.327" E	929991.644	716738.5027
6	8° 23' 12.903" N	76° 58' 36.290" E	927620.43	717667.2412	6	8° 24' 34.490" N	76° 58' 3.758" E	930122.3265	716659.2153
7	8° 23' 12.340" N	76° 58' 37.291" E	927603.2651	717697.9504	7	8° 24' 38.627" N	76° 58' 1.291" E	930249.0767	716583.0933
8	8° 23' 10.901" N	76° 58' 40.885" E	927559.5991	717808.1604	8	8° 24' 41.995" N	76° 57' 58.881" E	930352.1863	716508.837
9	8° 23' 9.307" N	76° 58' 43.172" E	927510.9947	717878.3911	9	8° 24' 44.520" N	76° 57' 57.570" E	930429.5684	716468.3447
10	8° 23' 5.450" N	76° 58' 47.120" E	927393.0802	717999.7864	10	8° 24' 55.071" N	76° 57' 50.999" E	930752.7536	716265.6597
11	8° 23' 2.943" N	76° 58' 48.004" E	927316.1751	718027.2087	11	8° 24' 56.530" N	76° 57' 50.090" E	930797.4484	716237.6297
12	8° 23' 1.092" N	76° 58' 47.952" E	927259.3139	718025.9226	12	8° 24' 57.569" N	76° 57' 49.279" E	930829.2586	716212.6624
13	8° 23' 1.110" N	76° 58' 46.950" E	927259.6987	717995.2559	13	8° 25' 2.321" N	76° 57' 46.925" E	930974.9024	716139.9102
14	8° 23' 1.300" N	76° 58' 46.320" E	927265.4396	717975.949	14	8° 25' 4.865" N	76° 57' 45.152" E	931052.8028	716085.2656
15	8° 23' 1.387" N	76° 58' 46.429" E	927268.1237	717979.2732	15	8° 25' 9.182" N	76° 57' 42.428" E	931185.0412	716001.2562
16	8° 23' 2.880" N	76° 58' 46.796" E	927314.0535	717990.2785	16	8° 25' 12.266" N	76° 57' 39.884" E	931279.4055	715922.941
17	8° 23' 4.682" N	76° 58' 46.128" E	927369.3173	717969.5364	17	8° 25' 16.609" N	76° 57' 36.440" E	931412.3233	715816.9132
18	8° 23' 4.995" N	76° 58' 45.892" E	927378.9097	717962.2727	18	8° 25' 20.849" N	76° 57' 32.552" E	931541.9949	715697.301
19	8° 23' 7.710" N	76° 58' 43.278" E	927461.9252	717881.8814	19	8° 25' 22.180" N	76° 57' 32.020" E	931582.8172	715680.8062
20	8° 23' 9.695" N	76° 58' 40.431" E	927522.4986	717794.444	20	8° 25' 25.886" N	76° 57' 28.885" E	931696.2181	715584.3259
21	8° 23' 10.676" N	76° 58' 37.810" E	927552.2298	717714.1106	21	8° 25' 28.900" N	76° 57' 27.460" E	931788.6018	715540.2565
22	8° 23' 10.997" N	76° 58' 34.727" E	927561.6252	717619.7005	22	8° 25' 29.250" N	76° 57' 28.310" E	931799.4864	715566.2087
23	8° 23' 11.500" N	76° 58' 34.370" E	927577.0136	717608.7125	23	8° 25' 16.890" N	76° 57' 37.310" E	931421.0839	715843.4732
24	8° 23' 13.520" N	76° 58' 33.440" E	927638.9388	717579.9436	24	8° 25' 9.180" N	76° 57' 44.420" E	931185.2717	716062.1987
25	8° 23' 16.638" N	76° 58' 33.763" E	927734.7886	717589.3586	25	8° 24' 54.818" N	76° 57' 53.695" E	930745.4068	716348.2013
26	8° 23' 17.345" N	76° 58' 33.537" E	927756.4801	717582.3308	26	8° 24' 50.601" N	76° 57' 56.419" E	930616.2351	716432.1894
27	8° 23' 20.056" N	76° 58' 31.816" E	927839.5266	717529.2379	27	8° 24' 38.110" N	76° 58' 2.990" E	930233.4424	716635.168
28	8° 23' 22.830" N	76° 58' 28.716" E	927924.2765	717433.9607	28	8° 24' 28.570" N	76° 58' 8.090" E	929941.0925	716792.6862
		Area - II			29	8° 24' 16.700" N	76° 58' 14.290" E	929577.3183	716984.2226
1	8° 23' 57.210" N	76° 58' 21.340" E	928979.5346	717202.9524	30	8° 24' 7.430" N	76° 58' 17.760" E	929293.0139	717091.8287
2	8° 23' 56.753" N	76° 58' 22.321" E	928965.6439	717233.0488	31	8° 24' 7.230" N	76° 58' 17.839" E	929286.8662	717094.2901
3	8° 23' 56.061" N	76° 58' 22.796" E	928944.446	717247.6857	32	8° 24' 2.073" N	76° 58' 20.165" E	929128.7703	717166.2417
4	8° 23' 54.950" N	76° 58' 23.400" E	928910.4102	717266.3297	33	8° 24' 1.986" N	76° 58' 20.204" E	929126.119	717167.4483
5	8° 23' 54.017" N	76° 58' 23.283" E	928881.7237	717262.8979	34	8° 24' 1.660" N	76° 58' 19.680" E	929116.0152	717151.4677
6	8° 23' 53.120" N	76° 58' 22.700" E	928854.0722	717245.1934	35	8° 24' 2.531" N	76° 58' 19.214" E	929142.7012	717137.0734
7	8° 23' 51.770" N	76° 58' 22.430" E	928812.5493	717237.1407	36	8° 24' 4.953" N	76° 58' 17.984" E	929216.9448	717099.0528
8	8° 23' 48.250" N	76° 58' 24.210" E	928704.6645	717292.1499	37	8° 24' 7.840" N	76° 58' 16.509" E	929305.4338	717053.482
9	8° 23' 46.938" N	76° 58' 24.253" E	928664.3529	717293.6538	...	...	...	...	...
10	8° 23' 45.096" N	76° 58' 24.124" E	928607.7432	717290.0069					
11	8° 23' 42.390" N	76° 58' 23.360" E	928524.4738	717267.0475					
12	8° 23' 40.500" N	76° 58' 21.330" E	928466.0876	717205.2251					
13	8° 23' 40.790" N	76° 58' 20.440" E	928474.8615	717177.947					
14	8° 23' 44.386" N	76° 58' 22.529" E	928585.6741	717241.3036					
15	8° 23' 46.698" N	76° 58' 22.787" E	928656.7571	717248.8574					
16	8° 23' 51.620" N	76° 58' 22.130" E	928807.894	717227.9849					
17	8° 23' 51.891" N	76° 58' 22.043" E	928816.215	717225.2907					
18	8° 23' 53.285" N	76° 58' 22.264" E	928859.0828	717231.8141					
19	8° 23' 56.413" N	76° 58' 20.598" E	928954.9203	717180.3807					
20	8° 23' 57.190" N	76° 58' 20.350" E	928978.7689	717172.659					

**MINERAL BLOCK: CHACKA- KAZHAKUTTAM (A1)- PACHALLUR (A2)- POZHUYUR-POOVAR
(AREA-3), THIRUVANANTHAPURAM DISTRICT, KERALA**

CHACKA-KAZHAKUTTAM (Area1)

Sl.No.	Latitude	Longitude	Northing	Easting	18	8° 26' 12.590" N	76° 58' 1.32" E	933136.2589	716569.465
1	8° 31' 31.520" N	76° 53' 23.300" E	942893.5523	708016.0044	19	8° 25' 35.090" N	76° 58' 34.57" E	931989.1335	717592.5742
2	8° 31' 41.800" N	76° 53' 13.520" E	943207.9494	707715.3259	20	8° 25' 7.460" N	76° 58' 1.36" E	931135.0247	716580.7623
3	8° 31' 54.560" N	76° 53' 13.150" E	943599.9528	707702.0929	21	8° 24' 59.940" N	76° 57' 51.4" E	930902.4296	716277.1655
4	8° 32' 7.010" N	76° 53' 13.430" E	943982.5287	707708.7869	22	8° 24' 59.406" N	76° 57' 50.71" E	930885.9023	716256.1444
5	8° 32' 20.340" N	76° 53' 7.930" E	944391.2785	707538.5644	23	8° 25' 0.158" N	76° 57' 50.22" E	930908.9388	716241.0504
6	8° 32' 27.180" N	76° 53' 12.780" E	944602.1672	707685.8746	24	8° 25' 2.265" N	76° 57' 48.85" E	930973.4784	716198.7627
7	8° 31' 47.170" N	76° 53' 51.720" E	943378.6718	708882.9095	25	8° 25' 5.490" N	76° 57' 49.99" E	931072.7451	716233.188
8	8° 31' 29.650" N	76° 53' 56.880" E	942841.1315	709043.3808	26	8° 25' 9.190" N	76° 57' 51.63" E	931186.6861	716282.7954
9	8° 31' 27.580" N	76° 54' 3.200" E	942778.4796	709237.0018	27	8° 25' 12.300" N	76° 57' 51.32" E	931282.1988	716272.8308
10	8° 31' 25.290" N	76° 54' 6.570" E	942708.6247	709340.4252	28	8° 25' 14.320" N	76° 57' 49.04" E	931343.9166	716202.7595
11	8° 31' 24.420" N	76° 54' 12.310" E	942682.7576	709516.1245	29	8° 25' 14.500" N	76° 57' 45.54" E	931348.9099	716095.646
12	8° 31' 24.090" N	76° 54' 14.240" E	942672.9088	709575.208	30	8° 25' 15.150" N	76° 57' 41.34" E	931368.2377	715967.0424
13	8° 31' 22.090" N	76° 54' 15.550" E	942611.6545	709615.5786	31	8° 25' 17.980" N	76° 57' 37.36" E	931454.5838	715844.8353
14	8° 31' 10.150" N	76° 54' 21.970" E	942245.755	709813.7563	32	8° 25' 20.834" N	76° 57' 36.08" E	931542.0801	715805.3337
15	8° 31' 11.030" N	76° 54' 25.780" E	942273.3686	709930.1598	33	8° 25' 26.660" N	76° 57' 36.77" E	931721.2013	715825.4465
16	8° 31' 5.430" N	76° 54' 23.690" E	942100.988	709867.0817	POZHUYUR-POOVAR (Area 3)				
17	8° 31' 4.910" N	76° 54' 25.230" E	942085.2429	709914.2641	1	8° 18' 48.267" N	77° 4' 19.454" E	919542.6422	728210.6971
18	8° 31' 1.400" N	76° 54' 22.920" E	941977.0465	709844.1398	2	8° 18' 49.396" N	77° 4' 15.479" E	919576.7075	728088.8454
19	8° 31' 0.390" N	76° 54' 21.760" E	941945.8384	709808.8105	3	8° 18' 50.640" N	77° 4' 11.100" E	919614.2282	727954.636
20	8° 30' 58.740" N	76° 54' 19.070" E	941894.7352	709726.7805	4	8° 18' 51.827" N	77° 4' 9.685" E	919650.4673	727911.1292
21	8° 30' 55.770" N	76° 54' 21.200" E	941803.8003	709792.3817	5	8° 18' 54.430" N	77° 4' 6.580" E	919729.9666	727815.687
22	8° 30' 53.690" N	76° 54' 19.920" E	941739.6974	709753.5441	6	8° 18' 59.350" N	77° 4' 4.950" E	919880.8905	727765.0102
23	8° 30' 50.180" N	76° 54' 47.220" E	941635.9709	710589.1196	7	8° 19' 7.012" N	77° 3' 54.873" E	920114.7095	727455.3658
24	8° 30' 27.010" N	76° 55' 9.670" E	940927.4477	711279.3462	8	8° 19' 7.470" N	77° 3' 54.510" E	920128.7382	727444.1819
25	8° 30' 21.460" N	76° 55' 16.460" E	940757.9476	711487.8873	9	8° 19' 14.190" N	77° 3' 51.710" E	920334.7865	727357.4083
26	8° 30' 13.710" N	76° 55' 24.840" E	940521.0921	711745.4023	10	8° 19' 23.310" N	77° 3' 50.910" E	920614.9027	727331.4622
27	8° 30' 7.170" N	76° 55' 28.920" E	940320.7627	711871.2024	11	8° 19' 34.380" N	77° 3' 36.520" E	920952.7706	726889.2778
28	8° 29' 50.760" N	76° 55' 13.600" E	939814.221	711405.0797	12	8° 19' 47.720" N	77° 3' 20.020" E	921360.0589	726382.163
29	8° 29' 41.130" N	76° 55' 4.260" E	939516.9141	711120.8413	13	8° 19' 42.940" N	77° 3' 16.030" E	921212.5428	726260.8137
30	8° 29' 58.570" N	76° 54' 48.600" E	940050.4091	710639.1674	14	8° 19' 53.170" N	77° 3' 5.160" E	921525.1655	725926.5074
31	8° 30' 17.160" N	76° 54' 32.040" E	940619.1061	710129.8015	15	8° 20' 9.280" N	77° 2' 47.730" E	922017.431	725390.5073
32	8° 30' 24.980" N	76° 54' 23.430" E	940858.0854	709865.2522	16	8° 20' 28.250" N	77° 2' 25.990" E	922596.9006	724722.1626
33	8° 30' 32.320" N	76° 54' 11.370" E	941081.7983	709495.2504	17	8° 20' 44.670" N	77° 2' 6.410" E	923098.3609	724120.3431
34	8° 30' 37.010" N	76° 54' 4.190" E	941224.8232	709274.9216	18	8° 20' 55.460" N	77° 1' 55.310" E	923428.1644	723778.9409
35	8° 30' 40.900" N	76° 53' 58.940" E	941343.5579	709113.7492	19	8° 20' 58.040" N	77° 1' 50.230" E	923506.6418	723623.0693
36	8° 30' 46.670" N	76° 53' 56.710" E	941520.511	709044.6679	20	8° 21' 2.250" N	77° 1' 52.010" E	923636.2868	723676.8766
37	8° 30' 51.570" N	76° 53' 49.300" E	941669.9553	708817.2762	21	8° 21' 12.170" N	77° 1' 59.180" E	923942.2388	723894.7267
38	8° 30' 55.500" N	76° 53' 45.790" E	941790.1811	708709.3225	22	8° 21' 22.760" N	77° 2' 7.280" E	924268.9273	724140.9269
39	8° 31' 0.400" N	76° 53' 45.400" E	941940.6788	708696.6546	23	8° 21' 31.220" N	77° 2' 14.030" E	924529.9538	724346.1487
40	8° 31' 7.920" N	76° 53' 43.520" E	942171.4545	708638.0183	24	8° 20' 7.670" N	77° 4' 0.920" E	921979.6203	727630.6958
41	8° 31' 15.660" N	76° 53' 38.420" E	942408.5071	708480.8601	25	8° 18' 25.660" N	77° 6' 11.690" E	918866.0565	731649.5575
PACHALLUR (Area 2)					26	8° 18' 1.400" N	77° 5' 53.500" E	918117.618	731096.7534
1	8° 25' 32.430" N	76° 57' 33.74" E	931898.0298	715731.8526	27	8° 18' 13.210" N	77° 5' 37.800" E	918477.9886	730614.295
2	8° 25' 38.871" N	76° 57' 26.66" E	932094.857	715514.3002	28	8° 18' 21.050" N	77° 5' 27.900" E	918717.3048	730310.0102
3	8° 25' 43.850" N	76° 57' 20.88" E	932246.9577	715336.6386	29	8° 18' 14.060" N	77° 5' 22.970" E	918501.714	730160.2489
4	8° 25' 47.950" N	76° 57' 18.15" E	932372.5189	715252.4837	30	8° 18' 8.960" N	77° 5' 19.010" E	918344.3579	730039.8689
5	8° 25' 54.830" N	76° 57' 14.2" E	932583.3135	715130.5747	31	8° 18' 11.570" N	77° 5' 13.880" E	918423.7337	729882.4303
6	8° 25' 57.890" N	76° 57' 10.95" E	932676.8397	715030.6719	32	8° 18' 19.390" N	77° 5' 5.040" E	918662.6101	729610.5969
7	8° 25' 59.910" N	76° 57' 7.26" E	932738.343	714917.4667	33	8° 18' 19.810" N	77° 5' 0.680" E	918674.8147	729477.0818
8	8° 26' 3.730" N	76° 57' 4.17" E	932855.2461	714822.3415	34	8° 18' 23.430" N	77° 4' 56.060" E	918785.31	729335.0928
9	8° 26' 8.730" N	76° 57' 0.48" E	933008.315	714708.6798	35	8° 18' 31.300" N	77° 4' 48.600" E	919025.9467	729105.4952
10	8° 26' 12.547" N	76° 56' 58.85" E	933125.3499	714658.0981	36	8° 18' 32.210" N	77° 4' 41.930" E	919052.8388	728901.2005
11	8° 26' 14.620" N	76° 56' 57.47" E	933188.85	714615.7647	37	8° 18' 35.190" N	77° 4' 38.860" E	919143.9177	728806.7573
12	8° 26' 16.424" N	76° 56' 55.18" E	933243.9048	714545.2103	38	8° 18' 39.810" N	77° 4' 33.100" E	919284.9603	728629.7188
13	8° 26' 21.590" N	76° 56' 55.17" E	933402.6473	714544.25	39	8° 18' 38.899" N	77° 4' 30.172" E	919256.5059	728540.2586
14	8° 26' 26.290" N	76° 56' 54.84" E	933547.0116	714533.4335	40	8° 18' 41.054" N	77° 4' 27.089" E	919322.2254	728445.5537
15	8° 26' 30.062" N	76° 56' 55.41" E	933662.9843	714550.1479	41	8° 18' 46.570" N	77° 4' 28.108" E	919491.8991	728475.8526
16	8° 26' 32.600" N	76° 56' 59.37" E	933741.5887	714671.0557	42	8° 18' 48.712" N	77° 4' 27.170" E	919557.5437	728446.7827
17	8° 26' 53.460" N	76° 57' 26.95" E	934386.7736	715511.6238	43	8° 18' 47.108" N	77° 4' 23.532" E	919507.6925	728335.713

**MINERAL BLOCK : KARIMANAL-KAZHAKUTTAM,
THIRUVANATHAPURAM DISTRICT, KERALA**

Sl.No	Latitude	Longitude	Northing	Easting
1	8° 33' 52.940" N	76° 50' 56.970" E	947217.024	703519.4975
2	8° 33' 45.920" N	76° 50' 58.650" E	947001.5813	703571.9138
3	8° 33' 32.810" N	76° 50' 53.130" E	946597.9651	703405.0322
4	8° 33' 33.010" N	76° 51' 13.890" E	946607.1638	704039.9067
5	8° 33' 28.240" N	76° 51' 18.440" E	946461.2756	704179.7665
6	8° 33' 16.190" N	76° 51' 24.220" E	946091.8901	704358.324
7	8° 33' 7.750" N	76° 51' 35.140" E	945834.1814	704693.5486
8	8° 33' 11.250" N	76° 51' 50.000" E	945943.9167	705147.504
9	8° 33' 7.340" N	76° 51' 54.470" E	945824.4428	705284.7957
10	8° 33' 29.360" N	76° 52' 21.080" E	946504.965	706095.3433
11	8° 33' 37.180" N	76° 52' 20.220" E	946745.1097	706067.8724
12	8° 33' 50.890" N	76° 52' 36.810" E	947168.8279	706573.1962
13	8° 33' 39.480" N	76° 52' 33.310" E	946817.7281	706467.8641
14	8° 33' 15.560" N	76° 52' 35.040" E	946083.0328	706524.3567
15	8° 33' 11.950" N	76° 52' 40.950" E	945972.995	706705.6489
16	8° 33' 4.500" N	76° 52' 42.140" E	945744.2676	706743.1597
17	8° 32' 51.650" N	76° 52' 36.850" E	945348.6567	706583.2934
18	8° 32' 45.250" N	76° 52' 39.220" E	945152.3668	706656.7362
19	8° 32' 38.991" N	76° 52' 42.221" E	944960.5168	706749.4507
20	8° 32' 28.080" N	76° 52' 39.130" E	944624.797	706656.5528
21	8° 32' 27.080" N	76° 52' 48.160" E	944595.4171	706932.8846
22	8° 32' 20.010" N	76° 52' 49.850" E	944378.4397	706985.6331
23	8° 32' 17.110" N	76° 52' 56.670" E	944290.353	707194.6586
24	8° 32' 6.690" N	76° 52' 54.230" E	943969.8289	707121.5927
25	8° 32' 5.331" N	76° 53' 13.392" E	943930.9432	707707.8844
26	8° 31' 54.560" N	76° 53' 13.150" E	943599.9528	707702.0929
27	8° 31' 41.800" N	76° 53' 13.520" E	943207.9494	707715.3259
28	8° 31' 36.729" N	76° 53' 18.347" E	943052.8545	707863.7414
29	8° 31' 27.359" N	76° 53' 27.267" E	942766.287	708137.9711
30	8° 31' 26.186" N	76° 53' 26.926" E	942730.2122	708127.7118
31	8° 31' 14.860" N	76° 53' 23.630" E	942381.7123	708028.6006
32	8° 31' 10.670" N	76° 53' 18.630" E	942252.2246	707876.2954
33	8° 31' 16.550" N	76° 53' 5.180" E	942430.8832	707464.0218
34	8° 31' 23.610" N	76° 53' 3.460" E	942647.5491	707410.3549
35	8° 31' 27.050" N	76° 52' 57.400" E	942752.3416	707224.4861
36	8° 31' 34.290" N	76° 52' 55.920" E	942974.5738	707178.1347
37	8° 31' 44.240" N	76° 52' 53.910" E	943279.9932	707115.1674
38	8° 31' 52.110" N	76° 52' 51.470" E	943521.4394	707039.3594
39	8° 32' 0.610" N	76° 52' 46.880" E	943781.9223	706897.6988
40	8° 32' 6.570" N	76° 52' 44.150" E	943964.6396	706813.309
41	8° 32' 12.170" N	76° 52' 40.440" E	944136.1499	706698.9991
42	8° 32' 18.710" N	76° 52' 38.170" E	944336.7566	706628.5921
43	8° 32' 24.020" N	76° 52' 34.280" E	944499.3299	706508.8229
44	8° 32' 30.780" N	76° 52' 32.190" E	944706.7228	706443.8895
45	8° 32' 35.930" N	76° 52' 27.890" E	944864.3192	706311.6058
46	8° 32' 37.300" N	76° 52' 19.680" E	944905.1929	706060.3004
47	8° 32' 42.770" N	76° 52' 15.960" E	945072.7083	705945.71
48	8° 32' 49.330" N	76° 52' 13.730" E	945273.9356	705876.5288
49	8° 32' 59.350" N	76° 52' 5.320" E	945580.5556	705617.8208
50	8° 32' 46.740" N	76° 51' 39.860" E	945189.3422	704841.0222
51	8° 32' 42.977" N	76° 51' 24.238" E	945071.4137	704363.7906
52	8° 33' 1.361" N	76° 51' 10.041" E	945634.1766	703926.8854
53	8° 33' 12.813" N	76° 50' 59.806" E	945984.5455	703612.1681
54	8° 33' 27.676" N	76° 50' 48.386" E	946439.522	703260.7164
55	8° 33' 32.099" N	76° 50' 44.323" E	946574.8315	703135.7879
56	8° 33' 32.124" N	76° 50' 44.304" E	946575.5895	703135.2054
57	8° 33' 39.046" N	76° 50' 39.013" E	946787.4902	702972.3796
58	8° 33' 49.070" N	76° 50' 31.800" E	947094.4244	702750.3049
59	8° 33' 52.510" N	76° 50' 36.010" E	947200.735	702878.5506
60	8° 33' 56.670" N	76° 50' 41.020" E	947329.2855	703031.1563
61	8° 33' 53.780" N	76° 50' 47.760" E	947241.4796	703237.7083

**MINERAL BLOCK : KAZHAKUTTAM-ANJENGO,
THIRUVANATHAPURAM DISTRICT, KERALA**

Sl_No	Longitude	Latitude	Northing	Easting
1	76° 46' 28.360" E	8° 38' 55.530" N	956475.06	695261.763
2	76° 46' 51.260" E	8° 39' 14.520" N	957061.78	695959.1955
3	76° 47' 28.400" E	8° 38' 20.530" N	955408.3	697102.5267
4	76° 48' 14.590" E	8° 38' 16.770" N	955299.44	698515.3696
5	76° 49' 32.920" E	8° 37' 14.550" N	953399.14	700919.5431
6	76° 50' 46.240" E	8° 36' 8.350" N	951375.92	703171.3316
7	76° 51' 7.390" E	8° 35' 43.360" N	950611.22	703821.8021
8	76° 51' 38.670" E	8° 35' 26.830" N	950107.97	704780.8185
9	76° 51' 44.620" E	8° 34' 49.470" N	948960.95	704968.3451
10	76° 50' 31.800" E	8° 33' 49.070" N	947094.42	702750.3049
11	76° 49' 48.330" E	8° 34' 40.510" N	948668.56	701413.3586
12	76° 48' 23.540" E	8° 36' 25.910" N	951894.63	698805.1313
13	76° 47' 29.030" E	8° 37' 31.320" N	953896.46	697128.8869
14	76° 47' 4.760" E	8° 37' 48.070" N	954407.61	696384.3847
15	76° 47' 2.960" E	8° 38' 7.750" N	955012	696326.5202

ANJENGO-VETTOOR, THIRUVANANTHAPURAM DISTRICT, KERALA

Sl.No.	Latitude	Longitude	Northing	Easting
1	8° 42' 42.420" N	76° 43' 24.720" E	963420.0568	689615.454
2	8° 42' 32.040" N	76° 43' 32.280" E	963102.2034	689848.0088
3	8° 42' 20.410" N	76° 43' 42.390" E	962746.3025	690158.6946
4	8° 42' 5.320" N	76° 43' 54.830" E	962284.4261	690541.0977
5	8° 41' 54.930" N	76° 44' 3.180" E	961966.3788	690797.8173
6	8° 41' 47.770" N	76° 44' 9.500" E	961747.2845	690992.0272
7	8° 41' 45.220" N	76° 44' 12.460" E	961669.3545	691082.8738
8	8° 41' 40.200" N	76° 44' 16.930" E	961515.7497	691220.2307
9	8° 41' 32.750" N	76° 44' 21.890" E	961287.5559	691372.9106
10	8° 41' 26.500" N	76° 44' 28.170" E	961096.4157	691565.7753
11	8° 41' 20.910" N	76° 44' 33.950" E	960925.4835	691743.2641
12	8° 41' 15.720" N	76° 44' 37.620" E	960766.5444	691856.192
13	8° 41' 13.220" N	76° 44' 40.670" E	960690.1646	691949.7878
14	8° 41' 13.080" N	76° 44' 42.900" E	960686.177	692017.9806
15	8° 41' 12.360" N	76° 44' 44.080" E	960664.222	692054.1566
16	8° 41' 8.860" N	76° 44' 46.310" E	960557.0034	692122.8248
17	8° 41' 4.870" N	76° 44' 47.420" E	960434.5728	692157.324
18	8° 40' 57.020" N	76° 44' 51.750" E	960194.0027	692290.8079
19	8° 40' 51.860" N	76° 44' 55.930" E	960036.0578	692419.3273
20	8° 40' 44.940" N	76° 45' 2.090" E	959824.3189	692608.6302
21	8° 40' 41.480" N	76° 45' 6.280" E	959718.6062	692737.2156
22	8° 40' 31.300" N	76° 45' 13.630" E	959406.877	692963.3643
23	8° 40' 29.720" N	76° 45' 15.520" E	959358.6006	693021.3699
24	8° 40' 23.590" N	76° 45' 20.400" E	959170.954	693171.4334
25	8° 40' 19.870" N	76° 45' 23.170" E	959057.0535	693256.6469
26	8° 40' 10.810" N	76° 45' 30.070" E	958779.6726	693468.8856
27	8° 40' 6.920" N	76° 45' 33.010" E	958660.5735	693559.3219
28	8° 40' 3.230" N	76° 45' 35.750" E	958547.5908	693643.6173
29	8° 40' 0.900" N	76° 45' 36.840" E	958476.1588	693677.2724
30	8° 39' 59.850" N	76° 45' 38.860" E	958444.1849	693739.1791
31	8° 39' 53.650" N	76° 45' 44.210" E	958254.4557	693903.6286
32	8° 39' 43.490" N	76° 45' 51.890" E	957943.3911	694139.8785
33	8° 39' 43.240" N	76° 45' 52.790" E	957935.8377	694167.4302
34	8° 39' 41.220" N	76° 45' 54.040" E	957873.953	694205.9347
35	8° 39' 39.590" N	76° 45' 51.960" E	957823.5781	694142.574
36	8° 39' 55.290" N	76° 45' 39.430" E	958304.1654	693757.2554
37	8° 40' 19.700" N	76° 45' 19.420" E	959051.3005	693142.024
38	8° 40' 44.940" N	76° 44' 59.100" E	959823.8974	692517.22
39	8° 41' 14.070" N	76° 44' 34.640" E	960715.4319	691765.3243
40	8° 41' 30.460" N	76° 44' 21.330" E	961217.1206	691356.1134
41	8° 41' 51.920" N	76° 44' 3.290" E	961873.9169	690801.6029
42	8° 42' 8.940" N	76° 43' 49.840" E	962394.9469	690388.0467
43	8° 42' 22.430" N	76° 43' 38.630" E	962807.8388	690043.4701
44	8° 42' 30.260" N	76° 43' 32.500" E	963047.5468	689854.9833
45	8° 42' 39.170" N	76° 43' 25.300" E	963320.2872	689633.6389
46	8° 42' 51.430" N	76° 43' 15.310" E	963695.5626	689326.5425
47	8° 42' 52.740" N	76° 43' 16.690" E	963736.002	689368.5445

MALAPPURAM-ODETTI, THIRUVANANTHAPURAM DISTRICT, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting
1	8° 45' 10.670" N	76° 41' 30.830" E	967958.9846	686113.5842
2	8° 45' 11.140" N	76° 41' 31.690" E	967973.5424	686139.8052
3	8° 45' 10.840" N	76° 41' 31.910" E	967964.3558	686146.5708
4	8° 45' 9.220" N	76° 41' 33.780" E	967914.8419	686203.9516
5	8° 45' 6.600" N	76° 41' 34.830" E	967834.4924	686236.406
6	8° 45' 6.400" N	76° 41' 35.180" E	967828.396	686247.1323
7	8° 45' 4.060" N	76° 41' 37.050" E	967756.7617	686304.6118
8	8° 45' 3.680" N	76° 41' 36.940" E	967745.0719	686301.3016
9	8° 45' 2.570" N	76° 41' 38.050" E	967711.1222	686335.383
10	8° 45' 1.340" N	76° 41' 40.380" E	967673.6536	686406.7696
11	8° 44' 59.360" N	76° 41' 41.590" E	967612.9889	686444.0271
12	8° 44' 57.710" N	76° 41' 42.000" E	967562.3526	686456.7871
13	8° 44' 56.150" N	76° 41' 42.530" E	967514.498	686473.2022
14	8° 44' 54.640" N	76° 41' 43.260" E	967468.2069	686495.724
15	8° 44' 53.220" N	76° 41' 44.100" E	967424.6961	686521.5949
16	8° 44' 51.200" N	76° 41' 45.400" E	967362.8149	686561.6092
17	8° 44' 50.310" N	76° 41' 46.140" E	967335.5733	686584.3512
18	8° 44' 49.910" N	76° 41' 47.090" E	967323.4149	686613.4438
19	8° 44' 49.550" N	76° 41' 47.560" E	967312.4194	686627.8587
20	8° 44' 48.960" N	76° 41' 47.800" E	967294.326	686635.2765
21	8° 44' 48.360" N	76° 41' 47.850" E	967275.8992	686636.8879
22	8° 44' 48.050" N	76° 41' 48.010" E	967266.3972	686641.8208
23	8° 44' 47.680" N	76° 41' 48.400" E	967255.0834	686653.7933
24	8° 44' 46.560" N	76° 41' 49.140" E	967220.7757	686676.5661
25	8° 44' 42.980" N	76° 41' 49.650" E	967110.858	686692.6504
26	8° 44' 42.550" N	76° 41' 50.640" E	967097.7836	686722.9699
27	8° 44' 41.610" N	76° 41' 51.540" E	967069.028	686750.6091
28	8° 44' 41.273" N	76° 41' 51.823" E	967058.728	686759.2909
29	8° 44' 40.800" N	76° 41' 52.220" E	967044.2362	686771.506
30	8° 44' 39.870" N	76° 41' 52.570" E	967015.712	686782.3325
31	8° 44' 39.570" N	76° 41' 52.510" E	967006.487	686780.5397
32	8° 44' 39.400" N	76° 41' 52.400" E	967001.2489	686777.2016
33	8° 44' 40.259" N	76° 41' 51.646" E	967027.5474	686754.0316
34	8° 44' 41.330" N	76° 41' 50.870" E	967060.3333	686730.169
35	8° 44' 42.040" N	76° 41' 50.210" E	967082.0557	686709.8977
36	8° 44' 42.440" N	76° 41' 49.620" E	967094.2635	686691.8085
37	8° 44' 42.990" N	76° 41' 49.260" E	967111.1116	686680.7288
38	8° 44' 45.487" N	76° 41' 48.658" E	967187.7304	686661.9802
39	8° 44' 46.100" N	76° 41' 48.510" E	967206.5564	686657.3735
40	8° 44' 46.260" N	76° 41' 48.400" E	967211.4569	686653.9898
41	8° 44' 46.090" N	76° 41' 48.170" E	967206.2023	686646.9831
42	8° 44' 48.850" N	76° 41' 46.070" E	967290.7084	686582.4141
43	8° 44' 52.100" N	76° 41' 44.220" E	967390.303	686525.4184
44	8° 44' 55.760" N	76° 41' 42.090" E	967502.4555	686459.8077
45	8° 44' 58.440" N	76° 41' 40.670" E	967584.5974	686416.0349
46	8° 45' 0.760" N	76° 41' 39.300" E	967655.6858	686373.8394
47	8° 45' 2.257" N	76° 41' 37.366" E	967701.4173	686314.5119
48	8° 45' 6.091" N	76° 41' 34.762" E	967818.8307	686234.4066
49	8° 45' 8.540" N	76° 41' 33.180" E	967893.8679	686185.7062
50	8° 45' 8.600" N	76° 41' 32.660" E	967895.6398	686169.8046

MINERAL BLOCK: EDAVA-KOLLAM (AREA-I & II), KOLLAM DISTRICT, KERALA

Area- I

Sl. No.	Latitude	Longitude	Northing	Easting					
1	8° 49' 16.120" N	76° 38' 42.170" E	975476.8832	680925.4861	47	8° 50' 35.220" N	76° 37' 40.572" E	977898.7389	679032.5458
2	8° 49' 14.207" N	76° 38' 43.006" E	975418.2244	680951.28	48	8° 50' 32.127" N	76° 37' 43.157" E	977804.0687	679111.94
3	8° 49' 10.981" N	76° 38' 43.437" E	975319.174	680964.8925	49	8° 50' 30.601" N	76° 37' 44.342" E	977757.344	679148.3519
4	8° 49' 11.071" N	76° 38' 44.376" E	975322.0539	680993.5688	50	8° 50' 28.615" N	76° 37' 43.334" E	977696.1954	679117.8325
5	8° 48' 44.000" N	76° 38' 56.200" E	974491.9753	681358.5775	51	8° 50' 27.340" N	76° 37' 43.329" E	977657.037	679117.8325
6	8° 48' 40.736" N	76° 38' 58.592" E	974392.0237	681432.129	52	8° 50' 26.164" N	76° 37' 44.605" E	977621.0536	679156.9909
7	8° 48' 25.437" N	76° 39' 10.118" E	973923.5539	681786.4183	53	8° 50' 23.849" N	76° 37' 46.084" E	977550.1451	679202.4994
8	8° 48' 23.777" N	76° 39' 11.369" E	973872.7142	681824.8668	54	8° 50' 23.431" N	76° 37' 47.156" E	977537.4451	679235.3078
9	8° 47' 57.164" N	76° 39' 31.653" E	973057.8581	682448.3843	55	8° 50' 22.839" N	76° 37' 48.573" E	977519.4534	679278.6995
10	8° 47' 17.060" N	76° 40' 11.000" E	971831.1034	683656.3433	56	8° 50' 24.054" N	76° 37' 49.426" E	977556.8691	679304.5794
11	8° 46' 47.680" N	76° 40' 28.850" E	970930.9073	684205.9007	57	8° 50' 5.323" N	76° 38' 3.969" E	976983.3749	679751.4962
12	8° 46' 46.728" N	76° 40' 27.838" E	970901.5177	684175.0871	58	8° 50' 3.688" N	76° 38' 3.798" E	976933.1356	679746.4838
13	8° 46' 54.541" N	76° 40' 22.772" E	971140.8579	684019.2103	59	8° 50' 0.721" N	76° 38' 4.927" E	976842.1187	679781.4088
14	8° 47' 9.304" N	76° 40' 11.860" E	971592.9241	683683.6927	60	8° 49' 57.815" N	76° 38' 7.685" E	976753.2185	679866.0757
15	8° 47' 25.119" N	76° 39' 57.811" E	972076.8882	683252.1679	61	8° 49' 57.020" N	76° 38' 10.415" E	976729.1578	679949.6044
16	8° 47' 34.300" N	76° 39' 49.106" E	972357.7947	682984.8617	62	8° 49' 53.294" N	76° 38' 13.308" E	976615.0762	680038.5067
17	8° 47' 40.399" N	76° 39' 43.863" E	972544.4607	682823.8156	63	8° 49' 50.986" N	76° 38' 13.526" E	976544.1973	680045.4635
18	8° 47' 44.477" N	76° 39' 38.792" E	972669.0422	682668.282	64	8° 49' 45.412" N	76° 38' 18.047" E	976373.5407	680184.3701
19	8° 47' 48.965" N	76° 39' 35.605" E	972806.5115	682570.2863	65	8° 49' 45.322" N	76° 38' 18.782" E	976370.8948	680206.8597
20	8° 47' 55.955" N	76° 39' 31.288" E	973020.6733	682437.3952	66	8° 49' 42.730" N	76° 38' 20.633" E	976291.5197	680263.7452
21	8° 48' 4.023" N	76° 39' 23.332" E	973267.4497	682193.1676	67	8° 49' 38.890" N	76° 38' 22.520" E	976173.7799	680321.9537
22	8° 48' 15.572" N	76° 39' 15.746" E	973621.2373	681959.7662	68	8° 49' 35.003" N	76° 38' 25.144" E	976054.7171	680402.6518
23	8° 48' 23.815" N	76° 39' 9.794" E	973873.6884	681776.7316	69	8° 49' 29.812" N	76° 38' 30.576" E	975895.9668	680569.3396
24	8° 48' 30.030" N	76° 39' 3.340" E	974063.7482	681578.667	70	8° 49' 26.574" N	76° 38' 32.466" E	975796.7479	680627.548
25	8° 48' 36.640" N	76° 38' 58.812" E	974266.2267	681439.3986	71	8° 49' 26.960" N	76° 38' 32.901" E	975808.6541	680640.7772
26	8° 48' 38.296" N	76° 38' 56.292" E	974316.7383	681362.1532	72	8° 49' 25.060" N	76° 38' 34.062" E	975750.4457	680676.4961
27	8° 48' 47.561" N	76° 38' 53.293" E	974600.9774	681269.2446	73	8° 49' 24.629" N	76° 38' 34.016" E	975737.2165	680675.1731
28	8° 49' 11.563" N	76° 38' 39.724" E	975336.5481	680851.3524	74	8° 49' 21.429" N	76° 38' 37.206" E	975639.3205	680773.0692
29	8° 49' 29.603" N	76° 38' 25.795" E	975888.9077	680423.2842	75	8° 49' 21.350" N	76° 38' 38.110" E	975637.0071	680800.7036
30	8° 49' 31.187" N	76° 38' 24.507" E	975937.41	680383.7084			Area- II		
31	8° 49' 46.200" N	76° 38' 14.630" E	976397.3056	680079.851	1	8° 45' 57.990" N	76° 41' 0.690" E	969408.6509	685185.8534
32	8° 49' 54.121" N	76° 38' 7.710" E	976639.7333	679867.3226	2	8° 46' 7.410" N	76° 40' 55.810" E	969697.3906	685035.4067
33	8° 49' 59.259" N	76° 38' 4.055" E	976797.0777	679754.9391	3	8° 46' 11.650" N	76° 40' 57.380" E	969827.8696	685082.8089
34	8° 50' 43.768" N	76° 37' 24.480" E	978159.2054	678539.6697	4	8° 46' 35.180" N	76° 40' 41.940" E	970548.6619	684607.6803
35	8° 51' 0.660" N	76° 37' 11.030" E	978676.3729	678126.4438	5	8° 46' 45.850" N	76° 40' 32.120" E	970875.1311	684306.0905
36	8° 51' 16.302" N	76° 36' 56.314" E	979154.9635	677674.7104	6	8° 46' 44.390" N	76° 40' 33.650" E	970830.4849	684353.0515
37	8° 51' 34.599" N	76° 36' 36.013" E	979714.3937	677051.956	7	8° 46' 49.300" N	76° 40' 31.060" E	970980.9794	684273.2205
38	8° 51' 44.570" N	76° 36' 25.900" E	980019.3863	676741.6349	8	8° 47' 0.080" N	76° 40' 29.660" E	971311.9778	684228.9556
39	8° 52' 4.940" N	76° 35' 59.560" E	980641.7142	675934.1341	9	8° 47' 18.670" N	76° 40' 36.880" E	971884.0969	684447.0598
40	8° 52' 9.580" N	76° 36' 5.170" E	980785.001	676104.9277	10	8° 47' 7.500" N	76° 40' 39.600" E	971541.2972	684531.7237
41	8° 51' 27.510" N	76° 36' 56.870" E	979499.3735	677690.1915	11	8° 46' 52.970" N	76° 40' 47.630" E	971095.9956	684779.1354
42	8° 50' 48.428" N	76° 37' 29.534" E	978303.036	678693.4866	12	8° 46' 32.170" N	76° 40' 48.100" E	970457.0288	684796.3607
43	8° 50' 46.622" N	76° 37' 29.663" E	978247.5882	678697.6733	13	8° 46' 17.690" N	76° 40' 56.170" E	970013.2689	685044.9952
44	8° 50' 43.024" N	76° 37' 33.180" E	978137.5213	678805.6236	14	8° 46' 6.570" N	76° 40' 57.440" E	969671.8066	685085.3409
45	8° 50' 41.891" N	76° 37' 32.309" E	978102.5962	678779.1652	15	8° 46' 0.650" N	76° 41' 1.350" E	969490.4636	685205.659
46	8° 50' 35.488" N	76° 37' 39.208" E	977906.8042	678990.8323	16	8° 45' 59.050" N	76° 41' 1.590" E	969441.3402	685213.2148

**MINERAL BLOCK: KANNIMELSEY- NEENDAKARA
KOLLAM DISTRICT, KERALA**

SL.No.	Latitude	Longitude	Northing	Easting	57	8° 55' 50.533" N	76° 32' 27.139" E	987544.6772	669415.0437
1	8° 54' 47.040" N	76° 32' 32.930" E	985594.8647	669600.106	58	8° 55' 48.132" N	76° 32' 26.728" E	987470.877	669402.8053
2	8° 54' 49.637" N	76° 32' 32.408" E	985674.5846	669583.8377	59	8° 55' 46.712" N	76° 32' 26.865" E	987427.2688	669407.1696
3	8° 54' 51.811" N	76° 32' 31.642" E	985741.2589	669560.1381	60	8° 55' 45.550" N	76° 32' 27.000" E	987391.5863	669411.4493
4	8° 54' 52.460" N	76° 32' 31.740" E	985761.2201	669563.0575	61	8° 55' 44.890" N	76° 32' 27.680" E	987371.3973	669432.3067
5	8° 54' 55.185" N	76° 32' 31.012" E	985844.8456	669540.467	62	8° 55' 43.550" N	76° 32' 30.440" E	987330.5834	669516.7917
6	8° 54' 56.653" N	76° 32' 30.848" E	985889.9062	669535.2602	63	8° 55' 39.190" N	76° 32' 29.870" E	987196.5677	669499.9387
7	8° 54' 58.864" N	76° 32' 30.362" E	985957.778	669520.1296	64	8° 55' 32.590" N	76° 32' 32.840" E	986994.1889	669591.5143
8	8° 55' 0.345" N	76° 32' 30.191" E	986003.2531	669514.7119	65	8° 55' 29.170" N	76° 32' 33.620" E	986889.223	669615.7811
9	8° 55' 1.360" N	76° 32' 30.130" E	986034.4305	669512.7325	66	8° 55' 26.070" N	76° 32' 33.840" E	986794.0164	669622.8997
10	8° 55' 1.792" N	76° 32' 30.718" E	986047.7784	669530.6282	67	8° 55' 22.880" N	76° 32' 33.620" E	986695.9887	669616.5884
11	8° 55' 4.139" N	76° 32' 29.971" E	986119.7718	669507.534	68	8° 55' 20.360" N	76° 32' 33.110" E	986618.507	669601.3319
12	8° 55' 4.578" N	76° 32' 29.691" E	986133.2396	669498.904	69	8° 55' 17.010" N	76° 32' 33.110" E	986515.5921	669601.7617
13	8° 55' 5.285" N	76° 32' 29.496" E	986154.9244	669492.8537	70	8° 55' 14.130" N	76° 32' 33.780" E	986427.2014	669622.599
14	8° 55' 6.341" N	76° 32' 29.316" E	986187.362	669487.229	71	8° 55' 13.890" N	76° 32' 35.430" E	986420.0389	669673.0355
15	8° 55' 7.381" N	76° 32' 29.034" E	986219.2671	669478.4698	72	8° 55' 13.050" N	76° 32' 36.750" E	986394.4019	669713.4679
16	8° 55' 8.330" N	76° 32' 29.150" E	986248.43	669481.901	73	8° 55' 11.210" N	76° 32' 36.230" E	986337.8091	669697.8186
17	8° 55' 9.342" N	76° 32' 28.753" E	986279.478	669469.6579	74	8° 55' 9.840" N	76° 32' 34.920" E	986295.5543	669657.9752
18	8° 55' 10.357" N	76° 32' 28.711" E	986310.6346	669468.221	75	8° 55' 2.190" N	76° 32' 36.410" E	986060.7297	669704.4749
19	8° 55' 11.350" N	76° 32' 28.368" E	986341.1038	669457.638	76	8° 54' 55.810" N	76° 32' 37.240" E	985864.8364	669730.6494
20	8° 55' 12.237" N	76° 32' 28.433" E	986368.3786	669459.4847	77	8° 54' 54.400" N	76° 32' 36.620" E	985821.4408	669711.8897
21	8° 55' 13.505" N	76° 32' 28.005" E	986407.2765	669446.2526	78	8° 54' 53.080" N	76° 32' 35.670" E	985780.7681	669683.0371
22	8° 55' 14.520" N	76° 32' 28.090" E	986438.4494	669448.7365	79	8° 54' 51.460" N	76° 32' 35.460" E	985730.9735	669676.8295
23	8° 55' 15.175" N	76° 32' 27.748" E	986458.5311	669438.197	80	8° 54' 43.690" N	76° 32' 36.610" E	985492.4189	669712.9579
24	8° 55' 17.038" N	76° 32' 27.691" E	986515.7621	669436.2156	81	8° 54' 37.530" N	76° 32' 39.240" E	985303.5138	669794.0937
25	8° 55' 18.000" N	76° 32' 27.745" E	986545.3078	669437.726	82	8° 54' 34.690" N	76° 32' 41.750" E	985216.5867	669871.1381
26	8° 55' 18.887" N	76° 32' 27.819" E	986572.5839	669439.8994	83	8° 54' 29.500" N	76° 32' 44.410" E	985057.4848	669953.067
27	8° 55' 22.342" N	76° 32' 27.488" E	986678.6863	669429.3277	84	8° 54' 27.990" N	76° 32' 45.910" E	985011.2877	669999.0858
28	8° 55' 23.010" N	76° 32' 27.770" E	986699.2363	669437.8619	85	8° 54' 27.280" N	76° 32' 47.190" E	984989.6393	670038.281
29	8° 55' 25.588" N	76° 32' 27.374" E	986778.3892	669425.4482	86	8° 54' 25.640" N	76° 32' 48.260" E	984939.3937	670071.1802
30	8° 55' 26.704" N	76° 32' 27.374" E	986812.667	669425.3052	87	8° 54' 23.660" N	76° 32' 48.750" E	984878.6289	670086.4041
31	8° 55' 29.151" N	76° 32' 27.169" E	986887.8182	669418.7181	88	8° 54' 22.550" N	76° 32' 47.550" E	984844.3754	670049.8865
32	8° 55' 29.250" N	76° 32' 27.650" E	986890.9191	669433.3961	89	8° 54' 20.730" N	76° 32' 47.650" E	984788.4761	670053.1752
33	8° 55' 30.609" N	76° 32' 27.182" E	986932.6145	669418.9233	90	8° 54' 18.500" N	76° 32' 49.640" E	984720.2226	670114.2565
34	8° 55' 31.826" N	76° 32' 27.002" E	986969.9854	669413.2781	91	8° 54' 14.050" N	76° 32' 49.890" E	984583.5465	670122.4656
35	8° 55' 35.326" N	76° 32' 26.540" E	987077.4335	669398.7145	92	8° 54' 10.800" N	76° 32' 51.790" E	984483.9462	670180.9288
36	8° 55' 36.820" N	76° 32' 26.500" E	987123.3294	669397.2948	93	8° 54' 7.040" N	76° 32' 57.580" E	984369.1755	670358.2994
37	8° 55' 38.673" N	76° 32' 25.757" E	987180.1662	669374.3685	94	8° 54' 5.990" N	76° 32' 56.980" E	984336.8418	670340.1041
38	8° 55' 43.715" N	76° 32' 24.170" E	987334.8613	669325.2352	95	8° 54' 5.170" N	76° 32' 55.810" E	984311.5011	670304.4653
39	8° 55' 45.290" N	76° 32' 24.110" E	987383.2304	669323.1985	96	8° 54' 6.790" N	76° 32' 52.662" E	984360.8685	670208.0699
40	8° 55' 46.200" N	76° 32' 23.845" E	987411.1647	669314.984	97	8° 54' 8.325" N	76° 32' 50.505" E	984407.7539	670141.9988
41	8° 55' 47.468" N	76° 32' 23.725" E	987450.1009	669311.1621	98	8° 54' 10.286" N	76° 32' 48.801" E	984467.7857	670089.6753
42	8° 55' 48.297" N	76° 32' 23.451" E	987475.5142	669302.6916	99	8° 54' 13.402" N	76° 32' 47.416" E	984563.3326	670046.9801
43	8° 55' 49.396" N	76° 32' 23.126" E	987509.2306	669292.6182	100	8° 54' 14.645" N	76° 32' 47.271" E	984601.4892	670042.3768
44	8° 55' 51.980" N	76° 32' 22.730" E	987588.5769	669280.1846	101	8° 54' 15.482" N	76° 32' 47.733" E	984627.258	670056.3851
45	8° 55' 53.859" N	76° 32' 22.322" E	987646.2365	669267.476	102	8° 54' 17.857" N	76° 32' 47.237" E	984700.1687	670040.9188
46	8° 55' 55.329" N	76° 32' 21.723" E	987691.3435	669248.9907	103	8° 54' 19.370" N	76° 32' 46.732" E	984746.5895	670025.3018
47	8° 55' 56.610" N	76° 32' 20.650" E	987730.5494	669216.0514	104	8° 54' 21.140" N	76° 32' 46.110" E	984800.8751	670006.0753
48	8° 55' 56.614" N	76° 32' 21.740" E	987730.8162	669249.3488	105	8° 54' 25.408" N	76° 32' 43.697" E	984931.6834	669931.8141
49	8° 55' 55.266" N	76° 32' 26.865" E	987690.0603	669406.0722	106	8° 54' 29.720" N	76° 32' 40.970" E	985063.8044	669847.9469
50	8° 55' 54.840" N	76° 32' 27.460" E	987677.0418	669424.3096	107	8° 54' 31.880" N	76° 32' 39.200" E	985129.9357	669793.5964
51	8° 55' 54.472" N	76° 32' 27.327" E	987665.7098	669420.2888	108	8° 54' 36.488" N	76° 32' 36.165" E	985271.1175	669700.2765
52	8° 55' 53.576" N	76° 32' 26.574" E	987638.0883	669397.4021	109	8° 54' 37.858" N	76° 32' 35.677" E	985313.1251	669685.2012
53	8° 55' 52.883" N	76° 32' 26.317" E	987616.7622	669389.6495	110	8° 54' 39.380" N	76° 32' 35.630" E	985359.887	669683.5719
54	8° 55' 52.595" N	76° 32' 26.420" E	987607.9463	669392.823	111	8° 54' 41.028" N	76° 32' 34.727" E	985410.3876	669655.7797
55	8° 55' 51.716" N	76° 32' 27.738" E	987581.1082	669433.1887	112	8° 54' 44.172" N	76° 32' 33.392" E	985506.8217	669614.5987
56	8° 55' 51.446" N	76° 32' 27.874" E	987572.8161	669437.4056	113	8° 54' 45.153" N	76° 32' 33.662" E	985536.99	669622.7001

MINING BLOCK:CHAVARA-KMML-I, KOLLAM DISTRICT,KERALA

Sl No	Latitude	Longitude	Northing	Easting					
1	8° 57' 40.114" N	76° 32' 17.469" E	990909.8707	669105.6096	52	8° 56' 32.812" N	76° 32' 43.944" E	988845.6847	669922.9774
2	8° 57' 39.566" N	76° 32' 17.401" E	990893.0199	669103.5868	53	8° 56' 30.790" N	76° 32' 44.629" E	988783.6673	669944.1714
3	8° 57' 39.463" N	76° 32' 14.283" E	990889.4638	669008.3579	54	8° 56' 28.834" N	76° 32' 46.045" E	988723.7319	669987.6627
4	8° 57' 39.703" N	76° 32' 12.604" E	990896.6179	668957.0429	55	8° 56' 26.747" N	76° 32' 48.447" E	988659.9246	670061.3166
5	8° 57' 39.292" N	76° 32' 11.096" E	990883.7939	668911.0445	56	8° 56' 26.441" N	76° 32' 51.150" E	988650.88	670143.905
6	8° 57' 39.771" N	76° 32' 8.938" E	990898.2553	668845.0461	57	8° 56' 26.189" N	76° 32' 52.246" E	988643.2736	670177.4399
7	8° 57' 38.915" N	76° 32' 1.331" E	990870.9699	668612.8072	58	8° 56' 24.860" N	76° 32' 55.265" E	988602.8384	670269.8274
8	8° 57' 33.855" N	76° 32' 2.079" E	990715.6276	668636.3066	59	8° 56' 23.000" N	76° 32' 56.660" E	988545.8803	670312.6771
9	8° 57' 33.427" N	76° 32' 3.107" E	990702.6007	668667.7601	60	8° 56' 19.480" N	76° 32' 54.760" E	988437.4986	670255.0913
10	8° 57' 28.373" N	76° 32' 5.077" E	990547.5895	668728.5886	61	8° 56' 16.212" N	76° 32' 51.218" E	988336.6442	670147.3178
11	8° 57' 28.588" N	76° 32' 6.264" E	990554.3698	668764.8126	62	8° 56' 14.600" N	76° 32' 49.559" E	988286.9062	670096.8296
12	8° 57' 29.382" N	76° 32' 6.425" E	990578.7786	668769.6264	63	8° 56' 14.006" N	76° 32' 48.753" E	988268.5696	670072.2953
13	8° 57' 29.862" N	76° 32' 9.132" E	990593.8605	668852.2481	64	8° 56' 13.816" N	76° 32' 47.116" E	988262.5299	670022.3256
14	8° 57' 30.547" N	76° 32' 11.016" E	990615.1534	668909.7245	65	8° 56' 13.944" N	76° 32' 45.880" E	988266.2852	669984.5499
15	8° 57' 29.475" N	76° 32' 11.614" E	990582.3016	668928.1232	66	8° 56' 14.821" N	76° 32' 43.467" E	988292.9093	669910.7312
16	8° 57' 29.643" N	76° 32' 13.593" E	990587.7062	668988.5491	67	8° 56' 15.192" N	76° 32' 41.106" E	988304.0325	669838.5427
17	8° 57' 30.479" N	76° 32' 14.134" E	990613.4461	669004.9761	68	8° 56' 16.060" N	76° 32' 39.870" E	988330.525	669800.68
18	8° 57' 29.816" N	76° 32' 16.566" E	990593.3983	669079.3314	69	8° 56' 22.370" N	76° 32' 35.500" E	988523.815	669666.3761
19	8° 57' 28.697" N	76° 32' 17.081" E	990559.0857	669095.2146	70	8° 56' 25.070" N	76° 32' 29.184" E	988605.9411	669473.0862
20	8° 57' 28.903" N	76° 32' 17.903" E	990565.5065	669120.3073	71	8° 56' 29.113" N	76° 32' 21.829" E	988729.2056	669247.8929
21	8° 57' 30.410" N	76° 32' 19.925" E	990612.0804	669181.8644	72	8° 56' 30.511" N	76° 32' 20.142" E	988771.9375	669196.176
22	8° 57' 30.102" N	76° 32' 22.495" E	990602.9352	669260.401	73	8° 56' 36.362" N	76° 32' 15.959" E	988951.1665	669067.6506
23	8° 57' 28.745" N	76° 32' 22.931" E	990561.3221	669273.9037	74	8° 56' 39.631" N	76° 32' 13.208" E	989051.2276	668983.219
24	8° 57' 28.044" N	76° 32' 24.065" E	990539.9251	669308.6377	75	8° 56' 39.913" N	76° 32' 11.352" E	989059.6562	668926.4768
25	8° 57' 28.731" N	76° 32' 26.504" E	990561.3427	669383.0325	76	8° 56' 43.073" N	76° 32' 10.878" E	989156.6742	668911.6045
26	8° 57' 27.635" N	76° 32' 26.778" E	990527.6937	669391.5466	77	8° 56' 46.502" N	76° 32' 10.365" E	989261.9578	668895.4652
27	8° 57' 27.772" N	76° 32' 27.223" E	990531.9612	669405.1351	78	8° 56' 49.277" N	76° 32' 10.390" E	989347.2238	668895.8946
28	8° 57' 26.915" N	76° 32' 27.395" E	990505.6674	669410.4785	79	8° 56' 51.387" N	76° 32' 9.875" E	989411.9734	668879.8978
29	8° 57' 26.915" N	76° 32' 28.148" E	990505.7639	669433.5043	80	8° 56' 54.648" N	76° 32' 9.080" E	989512.0559	668855.1719
30	8° 57' 25.647" N	76° 32' 28.628" E	990466.878	669448.3203	81	8° 56' 55.676" N	76° 32' 8.951" E	989543.6183	668851.1153
31	8° 57' 23.934" N	76° 32' 31.369" E	990414.5974	669532.2713	82	8° 56' 59.351" N	76° 32' 7.666" E	989656.3487	668811.3951
32	8° 57' 22.604" N	76° 32' 31.643" E	990373.7769	669540.8215	83	8° 57' 1.965" N	76° 32' 7.266" E	989736.6173	668798.8207
33	8° 57' 21.749" N	76° 32' 32.497" E	990347.6179	669567.0108	84	8° 57' 4.855" N	76° 32' 6.823" E	989825.3312	668784.9232
34	8° 57' 19.697" N	76° 32' 39.535" E	990285.4684	669782.265	85	8° 57' 7.393" N	76° 32' 6.329" E	989903.2266	668769.506
35	8° 57' 15.660" N	76° 32' 37.670" E	990161.211	669725.802	86	8° 57' 9.467" N	76° 32' 5.805" E	989966.8748	668753.2594
36	8° 57' 10.857" N	76° 32' 37.685" E	990013.6528	669726.8858	87	8° 57' 12.678" N	76° 32' 4.820" E	990065.397	668722.7391
37	8° 57' 10.570" N	76° 32' 39.026" E	990005.0213	669767.8776	88	8° 57' 12.681" N	76° 32' 4.865" E	990065.4933	668724.1145
38	8° 57' 11.197" N	76° 32' 41.186" E	990024.54	669833.7741	89	8° 57' 15.489" N	76° 32' 4.043" E	990151.6738	668698.6455
39	8° 57' 10.117" N	76° 32' 42.471" E	989991.5469	669873.1624	90	8° 57' 17.858" N	76° 32' 3.005" E	990224.3164	668666.6524
40	8° 57' 9.115" N	76° 32' 44.835" E	989961.0606	669945.5101	91	8° 57' 23.130" N	76° 32' 0.648" E	990385.9689	668593.9781
41	8° 57' 7.522" N	76° 32' 46.557" E	989912.3342	669998.3096	92	8° 57' 27.388" N	76° 31' 58.620" E	990516.5074	668531.4928
42	8° 57' 5.543" N	76° 32' 47.353" E	989851.647	670022.8996	93	8° 57' 35.020" N	76° 31' 56.076" E	990750.6558	668452.8043
43	8° 57' 2.715" N	76° 32' 47.415" E	989764.7873	670025.1597	94	8° 57' 39.987" N	76° 31' 54.219" E	990903.0237	668395.4276
44	8° 56' 58.109" N	76° 32' 51.311" E	989623.7917	670144.7432	95	8° 57' 44.882" N	76° 32' 16.841" E	991056.2782	669085.8039
45	8° 56' 57.893" N	76° 32' 52.065" E	989617.2519	670167.8017	96	8° 57' 46.280" N	76° 32' 22.830" E	991099.9857	669268.5609
46	8° 56' 50.801" N	76° 32' 54.052" E	989399.6123	670229.4238	97	8° 57' 46.540" N	76° 32' 24.430" E	991108.1778	669317.4
47	8° 56' 47.717" N	76° 32' 53.949" E	989304.8623	670226.682	98	8° 57' 45.640" N	76° 32' 26.940" E	991080.8502	669394.1847
48	8° 56' 46.817" N	76° 32' 52.406" E	989277.0209	670179.6567	99	8° 57' 42.770" N	76° 32' 25.300" E	990992.4713	669344.4596
49	8° 56' 44.265" N	76° 32' 49.731" E	989198.2632	670098.2865	100	8° 57' 41.382" N	76° 32' 20.724" E	990949.234	669204.8752
50	8° 56' 38.685" N	76° 32' 47.216" E	989026.5301	670022.1725	101	8° 57' 40.902" N	76° 32' 18.634" E	990934.23	669141.0933
51	8° 56' 34.868" N	76° 32' 44.458" E	988908.9083	669938.4126	102	8° 57' 40.491" N	76° 32' 18.532" E	990921.5854	669138.0063

CHAVARA EE OF IREL MINING BLOCK-I, KOLLAM DISTRICT, KERALA

SL No.	Latitude	Longitude	Northing	Easting
1	8° 59' 39.399" N	76° 31' 57.077" E	994571.8016	668467.4194
2	8° 59' 28.663" N	76° 31' 59.720" E	994242.314	668549.5221
3	8° 59' 22.114" N	76° 32' 1.285" E	994041.3494	668598.1683
4	8° 59' 11.807" N	76° 32' 3.749" E	993725.0121	668674.7421
5	8° 58' 59.105" N	76° 32' 6.785" E	993335.1908	668769.1036
6	8° 58' 47.745" N	76° 32' 9.500" E	992986.5379	668853.4997
7	8° 58' 11.493" N	76° 32' 18.165" E	991873.951	669122.8164
8	8° 57' 49.146" N	76° 32' 23.506" E	991188.121	669288.8308
9	8° 57' 46.491" N	76° 32' 24.126" E	991106.6227	669308.1289
10	8° 57' 46.280" N	76° 32' 22.830" E	991099.9857	669268.5609
11	8° 57' 44.462" N	76° 32' 14.916" E	991043.1121	669027.0507
12	8° 57' 40.020" N	76° 31' 54.420" E	990904.0489	668401.5706
13	8° 57' 55.220" N	76° 31' 50.460" E	991370.5011	668278.6669
14	8° 58' 6.130" N	76° 31' 47.110" E	991705.2387	668174.9461
15	8° 58' 8.270" N	76° 31' 47.780" E	991771.0663	668195.1373
16	8° 58' 21.090" N	76° 31' 42.330" E	992164.2136	668027.0302
17	8° 58' 38.570" N	76° 31' 40.140" E	992700.9341	667957.9036
18	8° 58' 45.540" N	76° 31' 44.600" E	992915.6251	668093.2377
19	8° 59' 2.320" N	76° 31' 36.470" E	993430.0855	667842.7716
20	8° 59' 24.970" N	76° 31' 29.830" E	994125.0665	667637.0699
21	8° 59' 34.260" N	76° 31' 28.970" E	994410.3529	667609.6158
22	8° 59' 37.963" N	76° 31' 49.223" E	994526.6878	668227.7224

CHAVARA EE OF KMML MINING BLOCK - II KOLLAM DISTRICT, KERALA

SL No.	Latitude	Longitude	Northing	Easting
1	9° 0' 37.440" N	76° 31' 13.678" E	996349.3515	667134.5093
2	9° 0' 38.786" N	76° 31' 14.301" E	996390.7649	667153.3416
3	9° 0' 40.825" N	76° 31' 14.751" E	996453.4713	667166.8353
4	9° 0' 42.315" N	76° 31' 14.733" E	996499.2443	667166.0945
5	9° 0' 48.403" N	76° 31' 12.870" E	996686.0405	667108.4152
6	9° 0' 52.368" N	76° 31' 12.020" E	996807.749	667081.9568
7	9° 0' 54.853" N	76° 31' 11.112" E	996883.9492	667053.9109
8	9° 0' 57.924" N	76° 31' 9.791" E	996978.1411	667013.165
9	9° 0' 58.873" N	76° 31' 9.500" E	997007.2453	667004.1692
10	9° 1' 0.771" N	76° 31' 8.590" E	997065.4537	666976.1233
11	9° 1' 1.787" N	76° 31' 8.733" E	997096.6746	666980.3566
12	9° 1' 2.476" N	76° 31' 8.770" E	997117.8413	666981.415
13	9° 1' 3.475" N	76° 31' 8.480" E	997148.4873	666972.4284
14	9° 1' 3.550" N	76° 31' 8.861" E	997150.8567	666984.06
15	9° 1' 3.703" N	76° 31' 11.087" E	997155.8249	667052.0197
16	9° 1' 3.827" N	76° 31' 12.407" E	997159.7991	667092.3018
17	9° 1' 3.984" N	76° 31' 13.534" E	997164.787	667126.6994
18	9° 1' 4.523" N	76° 31' 14.881" E	997181.4955	667167.787
19	9° 1' 5.342" N	76° 31' 16.132" E	997206.8247	667205.8903
20	9° 1' 5.496" N	76° 31' 16.762" E	997211.6341	667225.1068
21	9° 1' 5.605" N	76° 31' 20.132" E	997215.4295	667328.0087
22	9° 1' 5.286" N	76° 31' 20.936" E	997205.7099	667352.6086
23	9° 1' 5.208" N	76° 31' 21.131" E	997203.3597	667358.5566
24	9° 1' 4.030" N	76° 31' 26.877" E	997167.8782	667534.2098
25	9° 0' 56.994" N	76° 31' 31.139" E	996952.2695	667665.2823
26	9° 0' 56.749" N	76° 31' 31.288" E	996944.763	667669.8456
27	9° 0' 22.730" N	76° 31' 39.890" E	995900.7788	667936.9291
28	9° 0' 14.691" N	76° 31' 41.608" E	995654.0252	667990.422
29	9° 0' 4.213" N	76° 31' 43.846" E	995332.4413	668060.1372
30	8° 59' 38.080" N	76° 31' 49.430" E	994530.3113	668234.0284
31	8° 59' 34.260" N	76° 31' 28.970" E	994410.3529	667609.6158
32	8° 59' 44.920" N	76° 31' 25.100" E	994737.3443	667490.0541
33	8° 59' 59.316" N	76° 31' 22.635" E	995179.2879	667412.9334
34	8° 59' 59.740" N	76° 31' 22.150" E	995192.2507	667398.0612
35	9° 0' 5.990" N	76° 31' 22.480" E	995384.2972	667407.3414
36	9° 0' 8.733" N	76° 31' 21.534" E	995468.456	667378.1053
37	9° 0' 10.808" N	76° 31' 19.724" E	995531.9561	667322.5427
38	9° 0' 12.931" N	76° 31' 18.693" E	995597.0438	667290.7926
39	9° 0' 12.937" N	76° 31' 17.147" E	995597.0438	667243.5894
40	9° 0' 12.960" N	76° 31' 17.130" E	995597.7412	667243.0526
41	9° 0' 16.934" N	76° 31' 15.686" E	995719.6543	667198.4553
42	9° 0' 18.857" N	76° 31' 15.877" E	995778.736	667204.0372
43	9° 0' 22.741" N	76° 31' 14.549" E	995897.8989	667162.9699
44	9° 0' 27.367" N	76° 31' 13.382" E	996039.8649	667126.7559
45	9° 0' 28.271" N	76° 31' 16.543" E	996068.0254	667223.1755

CHAVARA EE OF IREL MINING BLOCK - II, KOLLAM DISTRICT, KERALA

SL No.	Latitude	Longitude	Northing	Easting
1	9° 1' 12.014" N	76° 31' 5.655" E	997410.4751	666885.0595
2	9° 1' 17.621" N	76° 31' 3.491" E	997582.4546	666818.252
3	9° 1' 20.452" N	76° 31' 1.099" E	997669.1059	666744.83
4	9° 1' 22.632" N	76° 30' 59.852" E	997735.9133	666706.4654
5	9° 1' 23.351" N	76° 30' 57.775" E	997757.7414	666642.9652
6	9° 1' 22.990" N	76° 30' 56.539" E	997746.4966	666605.262
7	9° 1' 25.578" N	76° 30' 55.402" E	997825.8718	666570.2047
8	9° 1' 27.050" N	76° 30' 53.524" E	997870.851	666512.6577
9	9° 1' 27.966" N	76° 30' 52.838" E	997898.8814	666491.5787
10	9° 1' 28.723" N	76° 30' 54.012" E	997922.3126	666527.3421
11	9° 1' 29.783" N	76° 30' 53.912" E	997954.8564	666524.1671
12	9° 1' 30.187" N	76° 30' 52.549" E	997967.0964	666482.4864
13	9° 1' 31.887" N	76° 30' 51.166" E	998019.1503	666440.0294
14	9° 1' 35.522" N	76° 30' 49.806" E	998130.6497	666398.0302
15	9° 1' 35.764" N	76° 30' 50.844" E	998138.213	666429.7106
16	9° 1' 36.669" N	76° 30' 50.640" E	998165.9943	666423.3606
17	9° 1' 36.691" N	76° 30' 49.992" E	998166.5842	666403.5602
18	9° 1' 37.211" N	76° 30' 49.945" E	998182.5308	666402.0616
19	9° 1' 37.191" N	76° 30' 49.403" E	998181.8694	666385.5251
20	9° 1' 41.263" N	76° 30' 48.966" E	998306.8853	666371.6345
21	9° 1' 40.970" N	76° 30' 47.481" E	998297.7123	666326.3419
22	9° 1' 42.476" N	76° 30' 47.173" E	998343.927	666316.7333
23	9° 1' 42.817" N	76° 30' 48.062" E	998354.5103	666343.8532
24	9° 1' 45.170" N	76° 30' 46.491" E	998426.6095	666295.5666
25	9° 1' 55.083" N	76° 30' 44.345" E	998730.8809	666228.7592
26	9° 1' 54.468" N	76° 30' 42.241" E	998711.6986	666164.5976
27	9° 1' 57.263" N	76° 30' 41.443" E	998797.4701	666139.8676
28	9° 1' 57.558" N	76° 30' 42.829" E	998806.7142	666182.1572
29	9° 2' 1.746" N	76° 30' 42.077" E	998935.2719	666158.6445
30	9° 2' 1.577" N	76° 30' 41.166" E	998929.9802	666130.8632
31	9° 2' 0.888" N	76° 30' 41.315" E	998908.8135	666135.4934
32	9° 2' 0.527" N	76° 30' 39.906" E	998897.5687	666092.4985
33	9° 2' 0.829" N	76° 30' 39.799" E	998906.8292	666089.1912
34	9° 2' 1.198" N	76° 30' 39.064" E	998918.074	666066.7016
35	9° 2' 2.707" N	76° 30' 38.659" E	998964.3762	666054.1338
36	9° 2' 3.284" N	76° 30' 39.744" E	998982.2356	666087.2068
37	9° 2' 4.038" N	76° 30' 39.595" E	999005.3867	666082.5766
38	9° 2' 4.043" N	76° 30' 38.556" E	999005.3867	666050.8265
39	9° 2' 5.464" N	76° 30' 38.583" E	999049.043	666051.488
40	9° 2' 5.804" N	76° 30' 39.603" E	999059.6263	666082.5766
41	9° 2' 7.659" N	76° 30' 38.896" E	999116.5119	666060.7484
42	9° 2' 7.403" N	76° 30' 38.093" E	999108.5744	666036.2744
43	9° 2' 8.632" N	76° 30' 37.903" E	999146.2776	666030.3213
44	9° 2' 8.633" N	76° 30' 37.622" E	999146.2776	666021.7223
45	9° 2' 9.344" N	76° 30' 37.452" E	999168.1057	666016.4306
46	9° 2' 10.800" N	76° 30' 41.960" E	999213.4068	666153.9268
47	9° 2' 9.522" N	76° 30' 45.123" E	999174.5425	666250.6789
48	9° 2' 9.453" N	76° 30' 46.082" E	999172.5588	666279.9866
49	9° 2' 8.494" N	76° 30' 48.686" E	999143.4153	666359.6345
50	9° 2' 7.397" N	76° 30' 51.427" E	999110.079	666443.4856
51	9° 2' 7.535" N	76° 30' 51.702" E	999114.3242	666451.8393
52	9° 2' 6.027" N	76° 30' 54.511" E	999068.3652	666537.8358
53	9° 2' 4.656" N	76° 30' 56.019" E	999026.4517	666584.0521
54	9° 2' 3.250" N	76° 30' 56.490" E	998983.3072	666598.6195
55	9° 1' 44.500" N	76° 31' 2.450" E	998408.0508	666783.0273
56	9° 1' 34.180" N	76° 31' 7.550" E	998091.6608	666940.0977
57	9° 1' 13.730" N	76° 31' 13.500" E	997464.1781	667124.4244
58	9° 1' 13.460" N	76° 31' 12.862" E	997455.7997	667104.9808
59	9° 1' 12.174" N	76° 31' 12.373" E	997416.2202	667090.1994
60	9° 1' 8.314" N	76° 31' 12.617" E	997297.6866	667098.1369
61	9° 1' 5.831" N	76° 31' 13.247" E	997221.4865	667117.7161
62	9° 1' 5.370" N	76° 31' 12.571" E	997207.235	667097.1173
63	9° 1' 4.794" N	76° 31' 12.322" E	997189.4983	667089.5908
64	9° 1' 4.365" N	76° 31' 11.757" E	997176.2691	667072.3929
65	9° 1' 4.247" N	76° 31' 11.263" E	997172.5649	667057.3116
66	9° 1' 4.015" N	76° 31' 11.028" E	997165.4211	667050.1678
67	9° 1' 3.804" N	76° 31' 8.455" E	997158.5912	666971.6069

CHAVARA EE OF KMML MINING BLOCK - III KOLLAM DISTRICT, KERALA

SL No.	Latitude	Longitude	Northing	Easting
1	9° 3' 28.148" N	76° 31' 0.255" E	1001591.898	666702.7327
2	9° 3' 29.540" N	76° 31' 3.024" E	1001635.032	666787.1199
3	9° 3' 30.620" N	76° 31' 5.171" E	1001668.466	666852.5324
4	9° 3' 26.772" N	76° 31' 6.087" E	1001550.373	666880.9971
5	9° 3' 23.230" N	76° 31' 7.050" E	1001441.693	666910.8707
6	9° 3' 22.090" N	76° 31' 3.120" E	1001406.171	666791.0057
7	9° 3' 21.968" N	76° 31' 3.153" E	1001402.414	666792.0309
8	9° 3' 12.816" N	76° 31' 5.624" E	1001121.578	666868.6686
9	9° 3' 3.273" N	76° 31' 8.201" E	1000828.739	666948.5819
10	9° 3' 5.310" N	76° 31' 16.020" E	1000892.321	667187.0899
11	9° 3' 5.079" N	76° 31' 16.082" E	1000885.222	667189.0122
12	9° 3' 4.235" N	76° 31' 16.308" E	1000859.339	667196.0218
13	9° 2' 52.693" N	76° 31' 19.400" E	1000505.157	667291.938
14	9° 2' 52.667" N	76° 31' 19.408" E	1000504.339	667292.1597
15	9° 2' 51.932" N	76° 31' 16.683" E	1000481.429	667209.0391
16	9° 2' 51.600" N	76° 31' 15.450" E	1000471.066	667171.4424
17	9° 2' 51.590" N	76° 31' 15.448" E	1000470.743	667171.3793
18	9° 2' 50.912" N	76° 31' 15.623" E	1000449.949	667176.8192
19	9° 2' 43.849" N	76° 31' 17.450" E	1000233.205	667233.5197
20	9° 2' 40.801" N	76° 31' 18.239" E	1000139.666	667257.99
21	9° 2' 40.680" N	76° 31' 18.270" E	1000135.955	667258.9607
22	9° 2' 39.155" N	76° 31' 12.583" E	1000088.388	667085.4711
23	9° 2' 39.079" N	76° 31' 12.298" E	1000086.007	667076.788
24	9° 2' 28.060" N	76° 30' 31.200" E	999742.2836	665823.1358
25	9° 2' 35.040" N	76° 30' 29.110" E	999956.4492	665758.4235
26	9° 2' 37.992" N	76° 30' 28.627" E	1000047.085	665743.296
27	9° 2' 41.299" N	76° 30' 28.779" E	1000148.685	665747.5294
28	9° 2' 42.070" N	76° 30' 29.300" E	1000172.439	665763.3319
29	9° 2' 42.258" N	76° 30' 30.239" E	1000178.318	665791.9794
30	9° 2' 39.562" N	76° 30' 32.168" E	1000095.768	665851.2462
31	9° 2' 37.975" N	76° 30' 32.855" E	1000047.085	665872.4129
32	9° 2' 37.766" N	76° 30' 33.478" E	1000040.735	665891.463
33	9° 2' 41.421" N	76° 30' 32.661" E	1000152.918	665866.0629
34	9° 2' 43.494" N	76° 30' 31.214" E	1000216.418	665821.6128
35	9° 2' 46.189" N	76° 30' 29.308" E	1000298.97	665763.0675
36	9° 2' 47.090" N	76° 30' 28.942" E	1000326.622	665751.7722
37	9° 2' 48.838" N	76° 30' 28.962" E	1000380.319	665752.1492
38	9° 2' 54.178" N	76° 30' 28.846" E	1000544.361	665747.9158
39	9° 2' 55.354" N	76° 30' 27.845" E	1000580.344	665717.2241
40	9° 2' 58.363" N	76° 30' 24.878" E	1000672.419	665626.2072
41	9° 3' 2.023" N	76° 30' 22.848" E	1000784.603	665563.7655
42	9° 3' 3.506" N	76° 30' 22.577" E	1000830.111	665555.2988
43	9° 3' 6.058" N	76° 30' 21.964" E	1000908.428	665536.2487
44	9° 3' 9.993" N	76° 30' 20.074" E	1001029.078	665478.0403
45	9° 3' 11.992" N	76° 30' 19.701" E	1001090.462	665466.3986
46	9° 3' 13.886" N	76° 30' 20.021" E	1001148.67	665475.9236
47	9° 3' 15.210" N	76° 30' 19.670" E	1001189.302	665465.0426
48	9° 3' 23.368" N	76° 30' 50.482" E	1001443.831	666404.8987
49	9° 3' 23.740" N	76° 30' 51.490" E	1001455.381	666435.6475
50	9° 3' 24.789" N	76° 30' 53.576" E	1001487.867	666499.2049
51	9° 2' 49.486" N	76° 30' 26.745" E	1000399.927	665684.3757
52	9° 2' 50.233" N	76° 30' 25.975" E	1000422.794	665660.7458
53	9° 2' 51.824" N	76° 30' 24.526" E	1000471.477	665616.2958
54	9° 2' 52.766" N	76° 30' 23.655" E	1000500.317	665589.5728
55	9° 2' 53.587" N	76° 30' 23.095" E	1000525.452	665572.3748
56	9° 2' 53.592" N	76° 30' 21.795" E	1000525.452	665532.6873
57	9° 2' 55.104" N	76° 30' 20.545" E	1000571.754	665494.3226
58	9° 2' 56.100" N	76° 30' 19.206" E	1000602.182	665453.3121
59	9° 2' 58.043" N	76° 30' 18.088" E	1000661.713	665418.9162
60	9° 3' 1.237" N	76° 30' 16.195" E	1000759.609	665360.7077
61	9° 3' 4.172" N	76° 30' 14.691" E	1000849.568	665314.4056
62	9° 3' 5.379" N	76° 30' 14.263" E	1000886.609	665301.1764
63	9° 3' 6.451" N	76° 30' 15.437" E	1000919.682	665336.8952
64	9° 3' 7.179" N	76° 30' 16.393" E	1000942.172	665365.9994
65	9° 3' 7.737" N	76° 30' 16.742" E	1000959.37	665376.5828
66	9° 3' 9.158" N	76° 30' 16.791" E	1001003.026	665377.9057
67	9° 3' 10.321" N	76° 30' 16.753" E	1001038.745	665376.5828
68	9° 3' 11.050" N	76° 30' 17.579" E	1001061.235	665401.7182
69	9° 3' 8.222" N	76° 30' 19.165" E	1000974.574	665450.5236
70	9° 3' 3.528" N	76° 30' 21.260" E	1000830.64	665515.082
71	9° 3' 2.081" N	76° 30' 21.358" E	1000786.19	665518.257
72	9° 3' 0.115" N	76° 30' 22.043" E	1000725.865	665539.4237
73	9° 2' 59.182" N	76° 30' 22.698" E	1000697.29	665559.5321
74	9° 2' 57.248" N	76° 30' 23.902" E	1000638.023	665596.5739
75	9° 2' 55.828" N	76° 30' 25.595" E	1000594.632	665648.4323
76	9° 2' 51.655" N	76° 30' 26.686" E	1000466.573	665682.299

CHAVARA EE OF IREL MINING BLOCK - III (AREA I, II & III) KOLLAM DISTRICT, KERALA

SL No.	Latitude	Longitude	Northing	Easting	SL No.	Latitude	Longitude	Northing	Easting
		Area - I			44	9° 3' 10.720" N	76° 30' 8.061" E	1001049.898	665111.0982
1	9° 3' 32.850" N	76° 29' 56.670" E	1001728.313	664760.4559	45	9° 3' 13.431" N	76° 30' 6.633" E	1001133.006	665067.1453
2	9° 3' 54.402" N	76° 29' 47.696" E	1002389.278	664483.7058	46	9° 3' 13.444" N	76° 30' 6.626" E	1001133.4	665066.937
3	9° 3' 54.609" N	76° 29' 48.505" E	1002395.718	664508.3642	47	9° 3' 17.290" N	76° 30' 4.600" E	1001251.3	665004.584
4	9° 3' 51.649" N	76° 29' 49.165" E	1002304.879	664528.9053	48	9° 3' 17.684" N	76° 30' 4.399" E	1001263.381	664998.4015
5	9° 3' 48.190" N	76° 29' 50.680" E	1002198.812	664575.601	49	9° 3' 20.284" N	76° 30' 3.074" E	1001343.099	664957.6023
6	9° 3' 47.896" N	76° 29' 50.870" E	1002189.804	664581.4509			Area - II		
7	9° 3' 45.738" N	76° 29' 51.649" E	1002123.615	664605.5099	1	9° 3' 55.464" N	76° 29' 51.801" E	1002422.426	76.497723
8	9° 3' 43.040" N	76° 29' 53.020" E	1002040.894	664647.7036	2	9° 3' 57.275" N	76° 29' 58.160" E	1002478.864	76.499489
9	9° 3' 42.098" N	76° 29' 53.405" E	1002011.996	664659.5938	3	9° 3' 54.060" N	76° 30' 1.100" E	1002380.453	76.500306
10	9° 3' 39.721" N	76° 29' 55.033" E	1001939.175	664709.5944	4	9° 3' 45.210" N	76° 30' 1.930" E	1002108.681	76.500536
11	9° 3' 39.057" N	76° 29' 55.418" E	1001918.829	664721.4494	5	9° 3' 37.900" N	76° 30' 4.700" E	1001884.463	76.501306
12	9° 3' 38.757" N	76° 29' 56.104" E	1001909.705	664742.4136	6	9° 3' 37.220" N	76° 30' 2.110" E	1001863.247	76.500586
13	9° 3' 37.729" N	76° 29' 56.682" E	1001878.2	664760.2002	7	9° 3' 42.610" N	76° 29' 56.890" E	1002028.173	76.499136
14	9° 3' 37.456" N	76° 29' 57.630" E	1001869.924	664789.1917	8	9° 3' 48.690" N	76° 29' 52.920" E	1002214.454	76.498033
15	9° 3' 36.730" N	76° 29' 58.100" E	1001847.689	664803.632			Area - III		
16	9° 3' 35.248" N	76° 29' 59.013" E	1001802.267	664831.6917	1	9° 3' 15.220" N	76° 30' 19.670" E	1001189.61	665465.0413
17	9° 3' 34.410" N	76° 29' 59.059" E	1001776.527	664833.2086	2	9° 3' 25.280" N	76° 30' 14.130" E	1001497.959	665294.5883
18	9° 3' 32.461" N	76° 30' 0.130" E	1001716.794	664866.1528	3	9° 3' 34.810" N	76° 30' 7.130" E	1001789.843	665079.6212
19	9° 3' 32.611" N	76° 30' 1.093" E	1001721.521	664895.5615	4	9° 3' 42.080" N	76° 30' 3.500" E	1002012.724	664967.8515
20	9° 3' 31.155" N	76° 30' 4.284" E	1001677.186	664993.1844	5	9° 3' 52.050" N	76° 30' 1.970" E	1002318.814	664919.8668
21	9° 3' 26.036" N	76° 30' 7.368" E	1001520.341	665088.0022	6	9° 3' 56.310" N	76° 30' 1.000" E	1002449.562	664889.7066
22	9° 3' 25.458" N	76° 30' 7.197" E	1001502.556	665082.8439	7	9° 3' 57.586" N	76° 29' 59.428" E	1002488.549	664841.5274
23	9° 3' 22.710" N	76° 30' 7.620" E	1001418.186	665096.1188	8	9° 4' 4.336" N	76° 30' 23.679" E	1002698.981	665581.2187
24	9° 3' 22.696" N	76° 30' 8.803" E	1001417.892	665132.2407	9	9° 4' 4.400" N	76° 30' 23.910" E	1002700.985	665588.2608
25	9° 3' 20.770" N	76° 30' 9.740" E	1001358.856	665161.1033	10	9° 4' 4.140" N	76° 30' 24.135" E	1002693.028	665595.155
26	9° 3' 21.047" N	76° 30' 10.537" E	1001367.453	665185.4201	11	9° 4' 3.255" N	76° 30' 24.398" E	1002665.876	665603.3224
27	9° 3' 19.045" N	76° 30' 12.089" E	1001306.173	665233.0607	12	9° 3' 57.010" N	76° 30' 26.260" E	1002474.257	665660.9619
28	9° 3' 18.565" N	76° 30' 12.462" E	1001291.463	665244.4969	13	9° 3' 57.511" N	76° 30' 28.222" E	1002489.894	665720.8221
29	9° 3' 18.545" N	76° 30' 12.466" E	1001290.834	665244.6318	14	9° 3' 57.980" N	76° 30' 30.060" E	1002504.537	665776.876
30	9° 3' 16.680" N	76° 30' 12.860" E	1001233.602	665256.8979	15	9° 3' 53.297" N	76° 30' 31.285" E	1002360.83	665814.8757
31	9° 3' 16.357" N	76° 30' 14.135" E	1001223.83	665295.8799	16	9° 3' 50.410" N	76° 30' 32.040" E	1002272.233	665838.3029
32	9° 3' 14.044" N	76° 30' 14.414" E	1001152.814	665304.6749	17	9° 3' 50.763" N	76° 30' 33.552" E	1002283.27	665884.4429
33	9° 3' 11.686" N	76° 30' 12.930" E	1001080.187	665259.6667	18	9° 3' 51.290" N	76° 30' 35.810" E	1002299.745	665953.3129
34	9° 3' 11.569" N	76° 30' 12.857" E	1001076.597	665257.4416	19	9° 3' 46.852" N	76° 30' 37.052" E	1002163.557	665991.8197
35	9° 3' 10.747" N	76° 30' 12.311" E	1001051.268	665240.8967	20	9° 3' 43.860" N	76° 30' 37.890" E	1002071.754	666017.7768
36	9° 3' 10.531" N	76° 30' 11.107" E	1001044.471	665204.1494	21	9° 3' 44.234" N	76° 30' 39.395" E	1002083.44	666063.6804
37	9° 3' 10.376" N	76° 30' 9.848" E	1001039.575	665165.7161	22	9° 3' 44.790" N	76° 30' 41.630" E	1002100.799	666131.8649
38	9° 3' 9.785" N	76° 30' 9.694" E	1001021.398	665161.0825	23	9° 3' 40.370" N	76° 30' 42.853" E	1001965.159	666169.773
39	9° 3' 9.504" N	76° 30' 9.138" E	1001012.676	665144.1557	24	9° 3' 37.850" N	76° 30' 43.550" E	1001887.841	666191.3815
40	9° 3' 8.269" N	76° 30' 9.591" E	1000974.807	665158.1357	25	9° 3' 38.165" N	76° 30' 44.826" E	1001897.673	666230.3048
41	9° 3' 7.050" N	76° 30' 9.860" E	1000937.385	665166.5077	26	9° 3' 38.780" N	76° 30' 47.320" E	1001916.89	666306.3862
42	9° 3' 6.470" N	76° 30' 8.480" E	1000919.393	665124.4397	27	9° 3' 23.740" N	76° 30' 51.490" E	1001455.381	666435.6475
43	9° 3' 9.810" N	76° 30' 8.540" E	1001022.007	665125.8485	28	9° 3' 23.480" N	76° 30' 50.880" E	1001447.316	666417.0531

**CHAVARA EE OF KMML MINING BLOCK IV
KOLLAM DISTRICT, KERALA**

SL. No	Latitude	Longitude	Easting	Northing
1	9° 3' 55.390" N	76° 29' 51.540" E	664600.9512	1002420.108
2	9° 4' 4.400" N	76° 30' 23.910" E	665588.2608	1002700.985
3	9° 4' 12.150" N	76° 30' 21.730" E	665520.7056	1002938.793
4	9° 4' 13.220" N	76° 30' 25.430" E	665633.5519	1002972.133
5	9° 4' 50.600" N	76° 30' 15.190" E	665316.1085	1004119.173
6	9° 4' 49.660" N	76° 30' 11.510" E	665203.8596	1004089.83
7	9° 4' 57.080" N	76° 30' 9.570" E	665143.678	1004317.531
8	9° 4' 58.260" N	76° 30' 13.180" E	665253.7583	1004354.238
9	9° 5' 5.700" N	76° 30' 11.260" E	665194.1847	1004582.556
10	9° 5' 4.700" N	76° 30' 7.470" E	665078.5859	1004551.357
11	9° 5' 12.150" N	76° 30' 5.340" E	665012.6	1004779.956
12	9° 5' 11.310" N	76° 30' 1.640" E	664899.7295	1004753.683
13	9° 5' 33.810" N	76° 29' 55.490" E	664709.086	1005444.119
14	9° 5' 32.860" N	76° 29' 51.770" E	664595.6208	1005414.465
15	9° 6' 30.190" N	76° 29' 30.920" E	663951.7357	1007173.043
16	9° 6' 19.650" N	76° 28' 57.200" E	662923.511	1006845.019
17	9° 6' 1.060" N	76° 29' 5.880" E	663190.8759	1006275.014
18	9° 5' 55.068" N	76° 29' 7.847" E	663251.6807	1006091.186
19	9° 5' 43.887" N	76° 29' 11.159" E	663354.2203	1005748.104
20	9° 5' 28.630" N	76° 29' 18.400" E	663577.2419	1005280.32
21	9° 5' 3.471" N	76° 29' 30.627" E	663953.7574	1004508.95
22	9° 5' 2.740" N	76° 29' 32.248" E	664003.3616	1004486.706
23	9° 4' 55.079" N	76° 29' 35.497" E	664103.5165	1004251.759
24	9° 4' 55.447" N	76° 29' 36.968" E	664148.3849	1004263.241
25	9° 4' 54.343" N	76° 29' 37.519" E	664165.3675	1004229.42
26	9° 4' 48.739" N	76° 29' 37.090" E	664152.9567	1004057.193
27	9° 4' 38.789" N	76° 29' 41.455" E	664287.498	1003752.076
28	9° 4' 33.860" N	76° 29' 45.752" E	664419.3475	1003601.209
29	9° 4' 30.931" N	76° 29' 46.039" E	664428.4639	1003511.246
30	9° 4' 27.560" N	76° 29' 45.303" E	664406.4326	1003407.597
31	9° 4' 25.037" N	76° 29' 47.023" E	664459.271	1003330.318
32	9° 4' 24.080" N	76° 29' 46.462" E	664442.2738	1003300.826
33	9° 4' 20.283" N	76° 29' 48.490" E	664504.6646	1003184.443
34	9° 4' 17.441" N	76° 29' 50.660" E	664571.283	1003097.41
35	9° 4' 17.246" N	76° 29' 51.777" E	664605.4337	1003091.552
36	9° 4' 15.302" N	76° 29' 51.248" E	664589.52	1003031.777
37	9° 4' 4.576" N	76° 29' 53.026" E	664645.1522	1002702.503
38	9° 4' 4.147" N	76° 29' 51.984" E	664613.3905	1002689.192

CHAVARA EE OF IRE MINING BLOCK IV, KOLLAM AND ALLAPUZHA DISTRICTS, KERALA

SL. No	Latitude	Longitude	Easting	Northing
1	9° 6' 19.650" N	76° 28' 57.200" E	662923.511	1006845.019
2	9° 6' 30.190" N	76° 29' 30.920" E	663951.7357	1007173.043
3	9° 6' 45.840" N	76° 29' 27.350" E	663840.7536	1007653.37
4	9° 6' 49.480" N	76° 29' 34.170" E	664048.5206	1007766.051
5	9° 7' 15.110" N	76° 29' 26.330" E	663805.9034	1008552.429
6	9° 7' 8.090" N	76° 29' 9.570" E	663295.0854	1008334.665
7	9° 7' 33.697" N	76° 29' 3.331" E	663101.357	1009120.552
8	9° 7' 30.960" N	76° 28' 51.700" E	662746.6092	1009035
9	9° 7' 36.540" N	76° 28' 49.460" E	662677.5175	1009206.139
10	9° 7' 35.790" N	76° 28' 46.870" E	662598.5374	1009182.775
11	9° 7' 47.775" N	76° 28' 42.155" E	662453.085	1009550.374
12	9° 7' 54.100" N	76° 28' 41.130" E	662420.9884	1009744.546
13	9° 7' 51.540" N	76° 28' 27.740" E	662012.5098	1009664.23
14	9° 7' 49.010" N	76° 28' 28.600" E	662039.0834	1009586.615
15	9° 7' 48.280" N	76° 28' 24.090" E	661901.4832	1009563.627
16	9° 7' 45.268" N	76° 28' 24.975" E	661928.8789	1009471.2
17	9° 7' 37.070" N	76° 28' 24.520" E	661916.0166	1009219.307
18	9° 7' 31.110" N	76° 28' 26.790" E	661986.0683	1009036.497
19	9° 7' 29.700" N	76° 28' 23.310" E	661879.998	1008992.748
20	9° 7' 26.464" N	76° 28' 22.501" E	661855.7073	1008893.227
21	9° 7' 21.570" N	76° 28' 23.010" E	661871.8572	1008742.955
22	9° 7' 16.106" N	76° 28' 24.953" E	661931.8538	1008575.334
23	9° 7' 13.593" N	76° 28' 26.485" E	661978.9495	1008498.329
24	9° 7' 8.590" N	76° 28' 34.360" E	662220.0127	1008345.62
25	9° 7' 0.783" N	76° 28' 37.027" E	662302.4104	1008106.132
26	9° 6' 53.590" N	76° 28' 42.790" E	662479.2764	1007885.867
27	9° 6' 46.380" N	76° 28' 46.527" E	662594.2661	1007664.853
28	9° 6' 43.347" N	76° 28' 46.520" E	662594.4324	1007571.665
29	9° 6' 34.200" N	76° 28' 49.850" E	662697.2683	1007291.082

CHAVARA EE, NORTHERN SECTOR (PHASE II), KOLLAM DISTRICT, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting
1	9° 3' 37.732" N	76° 30' 47.611" E	1001884.722	666315.3958
2	9° 3' 38.546" N	76° 30' 47.385" E	1001909.701	666308.3997
3	9° 3' 38.780" N	76° 30' 47.320" E	1001916.89	666306.3862
4	9° 3' 38.748" N	76° 30' 47.191" E	1001915.897	666302.4549
5	9° 3' 37.850" N	76° 30' 43.550" E	1001887.841	666191.3815
6	9° 3' 44.464" N	76° 30' 41.720" E	1002090.786	666134.6632
7	9° 3' 44.790" N	76° 30' 41.630" E	1002100.799	666131.8648
8	9° 3' 44.745" N	76° 30' 41.451" E	1002099.406	666126.3931
9	9° 3' 43.860" N	76° 30' 37.890" E	1002071.754	666017.7767
10	9° 3' 50.369" N	76° 30' 36.068" E	1002271.477	665961.3054
11	9° 3' 51.290" N	76° 30' 35.810" E	1002299.745	665953.3129
12	9° 3' 51.180" N	76° 30' 35.338" E	1002296.3	665938.9122
13	9° 3' 50.410" N	76° 30' 32.040" E	1002272.233	665838.3029
14	9° 3' 56.984" N	76° 30' 30.320" E	1002473.979	665784.9564
15	9° 3' 57.980" N	76° 30' 30.060" E	1002504.537	665776.876
16	9° 3' 57.854" N	76° 30' 29.568" E	1002500.618	665761.8739
17	9° 3' 57.010" N	76° 30' 26.260" E	1002474.257	665660.9619
18	9° 4' 4.140" N	76° 30' 24.135" E	1002693.028	665595.1551
19	9° 4' 4.400" N	76° 30' 23.910" E	1002700.984	665588.2608
20	9° 4' 12.150" N	76° 30' 21.730" E	1002938.793	665520.7056
21	9° 4' 13.220" N	76° 30' 25.430" E	1002972.133	665633.5519
22	9° 4' 42.505" N	76° 30' 17.408" E	1003870.761	665384.8553
23	9° 4' 50.600" N	76° 30' 15.190" E	1004119.173	665316.1085
24	9° 4' 49.660" N	76° 30' 11.510" E	1004089.83	665203.8596
25	9° 4' 57.080" N	76° 30' 9.570" E	1004317.531	665143.678
26	9° 4' 58.260" N	76° 30' 13.180" E	1004354.238	665253.7583
27	9° 5' 5.700" N	76° 30' 11.260" E	1004582.557	665194.1846
28	9° 5' 4.700" N	76° 30' 7.470" E	1004551.357	665078.5859
29	9° 5' 12.150" N	76° 30' 5.340" E	1004779.956	665012.5999
30	9° 5' 11.310" N	76° 30' 1.640" E	1004753.683	664899.7295
31	9° 5' 17.058" N	76° 30' 0.069" E	1004930.077	664851.0231
32	9° 5' 33.810" N	76° 29' 55.490" E	1005444.119	664709.086
33	9° 5' 32.860" N	76° 29' 51.770" E	1005414.465	664595.6208
34	9° 6' 30.190" N	76° 29' 30.920" E	1007173.043	663951.7357
35	9° 6' 45.840" N	76° 29' 27.350" E	1007653.37	663840.7536
36	9° 6' 49.480" N	76° 29' 34.170" E	1007766.051	664048.5206
37	9° 7' 15.110" N	76° 29' 26.330" E	1008552.429	663805.9034
38	9° 7' 8.090" N	76° 29' 9.570" E	1008334.665	663295.0854
39	9° 7' 8.430" N	76° 29' 9.620" E	1008345.116	663296.569
40	9° 7' 33.697" N	76° 29' 3.331" E	1009120.552	663101.357
41	9° 7' 36.117" N	76° 29' 2.698" E	1009194.811	663081.7463
42	9° 7' 37.387" N	76° 29' 3.692" E	1009233.944	663111.9376
43	9° 7' 41.020" N	76° 29' 4.249" E	1009345.612	663128.4591
44	9° 7' 42.794" N	76° 29' 2.922" E	1009399.947	663087.7438
45	9° 7' 45.371" N	76° 29' 2.751" E	1009479.082	663082.1937
46	9° 7' 46.807" N	76° 29' 1.037" E	1009522.985	663029.6757
47	9° 7' 54.042" N	76° 29' 0.932" E	1009745.239	663025.5608
48	9° 7' 55.905" N	76° 29' 0.925" E	1009802.48	663025.1064
49	9° 7' 56.987" N	76° 29' 2.366" E	1009835.883	663068.9712
50	9° 8' 3.238" N	76° 29' 3.119" E	1010028.027	663091.1697
51	9° 8' 5.334" N	76° 29' 2.231" E	1010092.298	663063.7781
52	9° 8' 51.780" N	76° 31' 58.210" E	1011541.635	668430.4304
53	9° 5' 51.440" N	76° 32' 53.160" E	1006008.534	670131.7785
54	9° 4' 7.200" N	76° 33' 26.510" E	1002810.508	671163.8376
55	9° 3' 30.620" N	76° 31' 5.171" E	1001668.466	666852.5324
56	9° 3' 23.740" N	76° 30' 51.490" E	1001455.381	666435.6475
57	9° 3' 26.855" N	76° 30' 50.626" E	1001550.974	666408.8733
58	9° 3' 37.732" N	76° 30' 47.611" E	1001884.722	666315.3958

CHAVARA EE, SOUTHERN SECTOR (PHASE II), KOLLAM DISTRICT, KERALA

Sl.No	Bearing	Northing	Longitude	Latitude	96	672225.05	90889.79	76 33 59.94"	8 59 25.07"	202	66826.40	90803.32	76 32 02.44"	9 1 38.05"
1	62982.00	90882.59	76 34 51.62"	8 59 30.60"	97	672221.64	90888.46	76 33 59.89"	8 59 34.03"	202	66804.62	90894.79	76 32 08.99" <td>9 1 39.41"</td>	9 1 39.41"
2	62982.34	90882.73	76 34 51.95"	8 59 31.62"	98	672224.15	90888.05	76 34 01.61"	8 59 34.67"	203	66803.97	90895.36	76 32 06.27" <td>9 1 39.36"</td>	9 1 39.36"
3	62985.39	90882.59	76 34 52.95"	8 59 33.03"	99	672254.87	90875.51	76 34 02.27"	8 59 32.17"	204	66804.55	90894.05	76 32 08.12" <td>9 1 39.03"</td>	9 1 39.03"
4	62985.82	90882.73	76 34 52.97"	8 59 36.95"	100	672280.90	90866.21	76 34 01.25"	8 59 33.97"	205	66803.76	90894.02	76 32 08.69" <td>9 1 39.05"</td>	9 1 39.05"
5	62988.40	90882.55	76 34 55.37"	8 59 42.57"	101	672275.99	90866.76	76 33 58.29"	8 59 36.10"	206	66806.33	90892.79	76 32 08.97" <td>9 1 39.70"</td>	9 1 39.70"
6	62988.94	90882.52	76 34 59.25"	8 59 42.34"	102	672255.39	90863.71	76 33 58.98"	8 59 39.12"	207	66805.03	90893.72	76 32 10.89" <td>9 1 39.95"</td>	9 1 39.95"
7	62988.30	90880.45	76 34 52.57"	8 59 46.79"	103	672261.06	90864.55	76 33 57.89"	8 59 42.52"	208	66803.28	90893.65	76 32 12.38" <td>9 1 39.07"</td>	9 1 39.07"
8	62987.75	90880.02	76 34 53.27"	8 59 42.86"	104	672081.98	90840.38	76 33 55.99"	8 59 48.05"	209	66808.05	90893.09	76 32 13.07" <td>9 1 39.09"</td>	9 1 39.09"
9	62985.12	90882.30	76 34 56.89"	8 59 48.75"	105	672082.64	90840.47	76 33 55.27"	8 59 50.47"	210	66805.51	90892.37	76 32 13.49" <td>9 1 37.02"</td>	9 1 37.02"
10	62985.21	90882.59	76 34 59.18"	8 59 56.79"	106	672085.59	90832.13	76 33 57.98"	8 59 52.89"	211	66808.00	90892.88	76 32 13.77" <td>9 1 38.62"</td>	9 1 38.62"
11	62982.34	90884.73	76 34 52.37"	8 59 54.11"	107	672080.07	90834.47	76 33 58.76"	8 59 58.07"	212	66809.29	90893.77	76 32 13.07" <td>9 1 40.07"</td>	9 1 40.07"
12	62983.38	90884.75	76 34 53.03"	8 59 52.93"	108	672281.70	90838.34	76 34 01.75"	8 59 58.03"	213	66808.02	90892.29	76 32 09.59" <td>9 1 39.77"</td>	9 1 39.77"
13	62989.48	90885.65	76 34 53.25"	8 59 42.44"	109	672288.40	90838.46	76 34 02.32"	8 59 55.21"	214	66808.59	90895.53	76 32 08.12" <td>9 1 42.21"</td>	9 1 42.21"
14	62983.85	90888.97	76 34 54.45"	8 59 03.57"	110	672251.67	90834.08	76 34 03.78"	8 59 52.41"	215	66809.59	90892.72	76 32 08.07" <td>9 1 39.49"</td>	9 1 39.49"
15	62983.34	90882.05	76 34 59.97"	8 59 58.22"	111	672213.99	90833.73	76 33 59.52"	8 59 47.97"	216	66809.64	90892.55	76 32 08.31" <td>9 1 40.69"</td>	9 1 40.69"
16	62983.42	90882.05	76 34 59.97"	8 59 52.93"	112	672084.69	90829.43	76 33 53.37"	8 59 46.11"	217	66809.54	90892.68	76 32 08.15" <td>9 1 41.59"</td>	9 1 41.59"
17	62983.00	90884.95	76 34 54.67"	8 59 03.97"	113	672080.34	90829.61	76 33 46.97"	8 59 42.75"	218	66807.55	90892.40	76 32 07.70" <td>9 1 41.69"</td>	9 1 41.69"
18	62982.00	90884.97	76 34 56.27"	8 59 08.67"	114	672081.97	90828.48	76 33 43.49"	8 59 44.44"	219	66808.07	90892.05 <td>76 32 07.51"<td>9 1 41.07"</td></td>	76 32 07.51" <td>9 1 41.07"</td>	9 1 41.07"
19	62989.70	90885.68	76 34 51.67"	8 59 02.84"	115	672080.50	90827.25	76 33 39.71"	8 59 48.05"	220	66804.49	90892.24	76 32 06.93" <td>9 1 40.89"</td>	9 1 40.89"
20	62989.94	90885.92	76 34 54.37"	8 59 13.39"	116	672082.20	90828.05	76 33 36.93"	8 59 48.05"	221	66804.86	90892.02	76 32 07.08" <td>9 1 41.89"</td>	9 1 41.89"
21	62982.34	90885.01	76 34 59.97"	8 59 15.24"	117	672083.82	90829.22	76 33 29.76"	8 59 42.05"	222	66808.00	90892.88	76 32 13.77" <td>9 1 42.94"</td>	9 1 42.94"
22	62989.80	90887.56	76 34 57.07"	8 59 22.97"	118	672081.15	90829.89	76 33 28.23"	8 59 48.07"	223	66807.52	90894.24	76 32 14.49" <td>9 1 42.94"</td>	9 1 42.94"
23	62989.79	90887.74	76 34 59.18"	8 59 24.94"	119	672081.20	90829.89	76 33 27.05"	8 59 39.04"	224	66807.72	90892.50	76 32 12.83" <td>9 1 42.83"</td>	9 1 42.83"
24	62987.28	90889.25	76 34 53.07"	8 59 29.57"	120	672085.06	90829.98	76 33 20.27"	8 59 38.29"	225	66808.00	90892.29	76 32 12.01" <td>9 1 41.70"</td>	9 1 41.70"
25	62985.48	90889.17	76 34 54.37"	8 59 25.47"	121	672087.61	90827.76	76 33 23.37"	8 59 39.07"	226	66807.69	90892.11	76 32 12.01" <td>9 1 41.54"</td>	9 1 41.54"
26	62989.85	90889.65	76 34 56.77"	8 59 23.57"	122	672080.51	90828.30	76 33 15.81"	8 59 36.97"	227	66809.00	90892.80	76 32 12.72" <td>9 1 37.61"</td>	9 1 37.61"
27	62988.71	90889.35	76 34 52.47"	8 59 23.57"	123	672080.51	90828.30	76 33 15.81"	8 59 36.97"	228	66807.52	90892.50	76 32 12.24" <td>9 1 36.59"</td>	9 1 36.59"
28	62988.15	90889.92	76 34 57.97"	8 59 23.78"	124	672085.19	90829.77	76 33 14.97"	8 59 34.55"	229	66804.21	90892.48	76 32 10.13" <td>9 1 36.27"</td>	9 1 36.27"
29	62988.60	90889.97	76 34 52.47"	8 59 23.57"	125	672080.40	90829.15	76 33 13.76"	8 59 30.44"	230	66809.07	90892.05 <td>76 32 12.72"<td>9 1 36.37"</td></td>	76 32 12.72" <td>9 1 36.37"</td>	9 1 36.37"
30	62986.77	90889.91	76 34 57.07"	8 59 25.27"	126	672085.19	90829.77	76 33 14.97"	8 59 34.55"	231	66809.07	90892.05 <td>76 32 12.72"<td>9 1 36.37"</td></td>	76 32 12.72" <td>9 1 36.37"</td>	9 1 36.37"
31	62986.61	90889.91	76 34 57.07"	8 59 25.27"	127	672080.11	90829.23	76 33 08.96"	8 59 28.15"	232	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
32	62986.61	90889.91	76 34 57.07"	8 59 25.27"	128	672080.11	90829.23	76 33 08.96"	8 59 28.15"	233	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
33	62986.61	90889.91	76 34 57.07"	8 59 25.27"	129	672080.11	90829.23	76 33 08.96"	8 59 28.15"	234	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
34	62986.61	90889.91	76 34 57.07"	8 59 25.27"	130	672080.11	90829.23	76 33 08.96"	8 59 28.15"	235	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
35	62986.61	90889.91	76 34 57.07"	8 59 25.27"	131	672080.11	90829.23	76 33 08.96"	8 59 28.15"	236	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
36	62986.61	90889.91	76 34 57.07"	8 59 25.27"	132	672080.11	90829.23	76 33 08.96"	8 59 28.15"	237	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
37	62986.61	90889.91	76 34 57.07"	8 59 25.27"	133	672080.11	90829.23	76 33 08.96"	8 59 28.15"	238	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
38	62986.61	90889.91	76 34 57.07"	8 59 25.27"	134	672080.11	90829.23	76 33 08.96"	8 59 28.15"	239	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
39	62986.61	90889.91	76 34 57.07"	8 59 25.27"	135	672080.11	90829.23	76 33 08.96"	8 59 28.15"	240	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
40	62986.61	90889.91	76 34 57.07"	8 59 25.27"	136	672080.11	90829.23	76 33 08.96"	8 59 28.15"	241	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
41	62986.61	90889.91	76 34 57.07"	8 59 25.27"	137	672080.11	90829.23	76 33 08.96"	8 59 28.15"	242	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
42	62986.61	90889.91	76 34 57.07"	8 59 25.27"	138	672080.11	90829.23	76 33 08.96"	8 59 28.15"	243	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
43	62986.61	90889.91	76 34 57.07"	8 59 25.27"	139	672080.11	90829.23	76 33 08.96"	8 59 28.15"	244	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
44	62986.61	90889.91	76 34 57.07"	8 59 25.27"	140	672080.11	90829.23	76 33 08.96"	8 59 28.15"	245	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
45	62986.61	90889.91	76 34 57.07"	8 59 25.27"	141	672080.11	90829.23	76 33 08.96"	8 59 28.15"	246	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
46	62986.61	90889.91	76 34 57.07"	8 59 25.27"	142	672080.11	90829.23	76 33 08.96"	8 59 28.15"	247	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
47	62986.61	90889.91	76 34 57.07"	8 59 25.27"	143	672080.11	90829.23	76 33 08.96"	8 59 28.15"	248	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
48	62986.61	90889.91	76 34 57.07"	8 59 25.27"	144	672080.11	90829.23	76 33 08.96"	8 59 28.15"	249	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
49	62986.61	90889.91	76 34 57.07"	8 59 25.27"	145	672080.11	90829.23	76 33 08.96"	8 59 28.15"	250	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
50	62986.61	90889.91	76 34 57.07"	8 59 25.27"	146	672080.11	90829.23	76 33 08.96"	8 59 28.15"	251	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
51	62986.61	90889.91	76 34 57.07"	8 59 25.27"	147	672080.11	90829.23	76 33 08.96"	8 59 28.15"	252	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
52	62986.61	90889.91	76 34 57.07"	8 59 25.27"	148	672080.11	90829.23	76 33 08.96"	8 59 28.15"	253	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
53	62986.61	90889.91	76 34 57.07"	8 59 25.27"	149	672080.11	90829.23	76 33 08.96"	8 59 28.15"	254	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
54	62986.61	90889.91	76 34 57.07"	8 59 25.27"	150	672080.11	90829.23	76 33 08.96"	8 59 28.15"	255	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
55	62986.61	90889.91	76 34 57.07"	8 59 25.27"	151	672080.11	90829.23	76 33 08.96"	8 59 28.15"	256	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
56	62986.61	90889.91	76 34 57.07"	8 59 25.27"	152	672080.11	90829.23	76 33 08.96"	8 59 28.15"	257	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
57	62986.61	90889.91	76 34 57.07"	8 59 25.27"	153	672080.11	90829.23	76 33 08.96"	8 59 28.15"	258	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
58	62986.61	90889.91	76 34 57.07"	8 59 25.27"	154	672080.11	90829.23	76 33 08.96"	8 59 28.15"	259	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
59	62986.61	90889.91	76 34 57.07"	8 59 25.27"	155	672080.11	90829.23	76 33 08.96"	8 59 28.15"	260	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
60	62986.61	90889.91	76 34 57.07"	8 59 25.27"	156	672080.11	90829.23	76 33 08.96"	8 59 28.15"	261	66808.12	90892.07	76 32 12.69" <td>9 1 35.71"</td>	9 1 35.71"
61	62986.61	90889.91	76 34 57.07"	8 59 25.27"	157	672080.11	90829.23	76 33 08.96"	8 59 28.15"	26				

KAYAMKULAM BAR - ARATTUPUZHA DEPOSIT, ALAPPUZHA DISTRICT, KERALA

Sl. No.	Northing	Easting	Latitude	Longitude	51	1016265.918	657975.3821	9° 11' 26.966" N	76° 26' 16.372" E
1	1010681.37	660581.398	9° 8' 24.839" N	76° 27' 41.000" E	52	1016390.616	657934.992	9° 11' 31.031" N	76° 26' 15.065" E
2	1010722.548	660563.2063	9° 8' 26.182" N	76° 27' 40.410" E	53	1016403.362	657941.7541	9° 11' 31.445" N	76° 26' 15.288" E
3	1010774.96	660533.429	9° 8' 27.892" N	76° 27' 39.442" E	54	1016461.667	657919.6522	9° 11' 33.346" N	76° 26' 14.572" E
4	1011116.312	660384.0022	9° 8' 39.023" N	76° 27' 34.592" E	55	1016538.462	657902.8609	9° 11' 35.848" N	76° 26' 14.032" E
5	1011359.946	660300.6965	9° 8' 46.964" N	76° 27' 31.896" E	56	1016567.449	657878.1294	9° 11' 36.794" N	76° 26' 13.225" E
6	1011393.239	660274.4042	9° 8' 48.052" N	76° 27' 31.039" E	57	1016615.328	657848.7069	9° 11' 38.357" N	76° 26' 12.268" E
7	1011418.695	660279.2469	9° 8' 48.880" N	76° 27' 31.201" E	58	1016832.885	657743.1108	9° 11' 45.452" N	76° 26' 8.837" E
8	1011475.385	660268.2468	9° 8' 50.726" N	76° 27' 30.848" E	59	1017021.533	657654.3345	9° 11' 51.605" N	76° 26' 5.953" E
9	1011584.725	660204.1694	9° 8' 54.294" N	76° 27' 28.764" E	60	1017328.32	657516.4059	9° 12' 1.609" N	76° 26' 1.475" E
10	1011731.312	660134.6662	9° 8' 59.075" N	76° 27' 26.507" E	61	1017423.147	657473.3902	9° 12' 4.702" N	76° 26' 0.078" E
11	1011805.435	660086.1184	9° 9' 1.494" N	76° 27' 24.926" E	62	1017479.697	657454.9227	9° 12' 6.545" N	76° 25' 59.480" E
12	1011919.584	660035.211	9° 9' 5.216" N	76° 27' 23.274" E	63	1017530.222	657450.9844	9° 12' 8.190" N	76° 25' 59.358" E
13	1012124.678	659938.9857	9° 9' 11.905" N	76° 27' 20.149" E	64	1017615.384	657452.2919	9° 12' 10.962" N	76° 25' 59.412" E
14	1012190.04	659911.7953	9° 9' 14.036" N	76° 27' 19.267" E	65	1017691.15	657426.8247	9° 12' 13.432" N	76° 25' 58.588" E
15	1012222.497	659897.5965	9° 9' 15.095" N	76° 27' 18.806" E	66	1017783.327	657357.2277	9° 12' 16.441" N	76° 25' 56.320" E
16	1012259.106	659898.108	9° 9' 16.286" N	76° 27' 18.828" E	67	1017911.927	657296.9355	9° 12' 20.635" N	76° 25' 54.361" E
17	1012313.441	659878.8753	9° 9' 18.058" N	76° 27' 18.205" E	68	1018947.552	656806.3416	9° 12' 54.410" N	76° 25' 38.424" E
18	1012559.09	659746.8795	9° 9' 26.071" N	76° 27' 13.914" E	69	1019119.069	656719.9491	9° 13' 0.005" N	76° 25' 35.616" E
19	1012635.947	659718.2144	9° 9' 28.577" N	76° 27' 12.985" E	70	1019199.785	656687.9812	9° 13' 2.636" N	76° 25' 34.579" E
20	1012715.6	659697.1214	9° 9' 31.172" N	76° 27' 12.305" E	71	1019281.01	656644.9133	9° 13' 5.286" N	76° 25' 33.179" E
21	1012787.206	659655.1797	9° 9' 33.509" N	76° 27' 10.940" E	72	1019531.264	656529.4194	9° 13' 13.447" N	76° 25' 29.428" E
22	1012889.074	659602.8952	9° 9' 36.832" N	76° 27' 9.241" E	73	1019560.232	656527.6557	9° 13' 14.390" N	76° 25' 29.374" E
23	1013035.193	659526.8038	9° 9' 41.598" N	76° 27' 6.768" E	74	1019623.023	656493.4524	9° 13' 16.439" N	76° 25' 28.261" E
24	1013273.559	659426.2727	9° 9' 49.370" N	76° 27' 3.506" E	75	1019801.404	656408.6832	9° 13' 22.256" N	76° 25' 25.507" E
25	1013615.598	659254.6598	9° 10' 0.527" N	76° 26' 57.930" E	76	1020098.795	657075.1253	9° 13' 31.850" N	76° 25' 47.381" E
26	1013754.742	659176.5108	9° 10' 5.066" N	76° 26' 55.388" E	77	1019435.433	657345.4502	9° 13' 10.222" N	76° 25' 56.150" E
27	1013786.792	659143.7419	9° 10' 6.114" N	76° 26' 54.319" E	78	1018892.606	657585.0814	9° 12' 52.520" N	76° 26' 3.930" E
28	1013803.187	659123.015	9° 10' 6.650" N	76° 26' 53.642" E	79	1018871.111	657520.1167	9° 12' 51.829" N	76° 26' 1.799" E
29	1013950.055	659040.3299	9° 10' 11.442" N	76° 26' 50.953" E	80	1018584.069	657644.8865	9° 12' 42.469" N	76° 26' 5.849" E
30	1014035.755	659010.4224	9° 10' 14.236" N	76° 26' 49.985" E	81	1018598.715	657684.4959	9° 12' 42.941" N	76° 26' 7.148" E
31	1014112.83	658980.7695	9° 10' 16.748" N	76° 26' 49.024" E	82	1018488.958	657754.9324	9° 12' 39.359" N	76° 26' 9.442" E
32	1014243.992	658925.2931	9° 10' 21.025" N	76° 26' 47.224" E	83	1018000.001	657776.6733	9° 12' 23.440" N	76° 26' 10.090" E
33	1014376.782	658862.1177	9° 10' 25.356" N	76° 26' 45.172" E	84	1017746.841	657994.3847	9° 12' 15.170" N	76° 26' 17.189" E
34	1014500.769	658782.6035	9° 10' 29.402" N	76° 26' 42.583" E	85	1017257.105	658069.9757	9° 11' 59.219" N	76° 26' 19.601" E
35	1014733.413	658688.6963	9° 10' 36.988" N	76° 26' 39.538" E	86	1016490.342	658230.8557	9° 11' 34.238" N	76° 26' 24.770" E
36	1015067.268	658544.4911	9° 10' 47.874" N	76° 26' 34.858" E	87	1016168.201	658235.2264	9° 11' 23.752" N	76° 26' 24.871" E
37	1015156.428	658494.9002	9° 10' 50.783" N	76° 26' 33.245" E	88	1015085.405	659258.1817	9° 10' 48.371" N	76° 26' 58.240" E
38	1015247.838	658454.6415	9° 10' 53.764" N	76° 26' 31.938" E	89	1014299.282	659718.3048	9° 10' 22.721" N	76° 27' 13.208" E
39	1015282.583	658459.3373	9° 10' 54.894" N	76° 26' 32.096" E	90	1013154.87	660241.331	9° 9' 45.400" N	76° 27' 30.190" E
40	1015327.634	658441.4634	9° 10' 56.363" N	76° 26' 31.517" E	91	1012826.887	660414.546	9° 9' 34.700" N	76° 27' 35.820" E
41	1015379.363	658434.4422	9° 10' 58.048" N	76° 26' 31.294" E	92	1012293.749	660696.3012	9° 9' 17.309" N	76° 27' 44.978" E
42	1015417.306	658409.1243	9° 10' 59.286" N	76° 26' 30.469" E	93	1011464.028	661012.6804	9° 8' 50.258" N	76° 27' 55.231" E
43	1015469.352	658398.2556	9° 11' 0.982" N	76° 26' 30.120" E	94	1010821.806	661257.3069	9° 8' 29.321" N	76° 28' 3.158" E
44	1015693.878	658265.8125	9° 11' 8.308" N	76° 26' 25.811" E	95	1010821.138	661256.2105	9° 8' 29.299" N	76° 28' 3.122" E
45	1015720.753	658266.1441	9° 11' 9.182" N	76° 26' 25.825" E	96	1010782.825	661190.3122	9° 8' 28.061" N	76° 28' 0.959" E
46	1015755.611	658243.806	9° 11' 10.320" N	76° 26' 25.098" E	97	1010748.699	661120.5499	9° 8' 26.959" N	76° 27' 58.669" E
47	1015825.792	658204.7324	9° 11' 12.610" N	76° 26' 23.827" E	98	1010757.813	661022.8052	9° 8' 27.269" N	76° 27' 55.469" E
48	1015915.416	658160.416	9° 11' 15.533" N	76° 26' 22.387" E	99	1010617.736	660952.5939	9° 8' 22.718" N	76° 27' 53.150" E
49	1015961.467	658143.8574	9° 11' 17.034" N	76° 26' 21.851" E	100	1010581.448	660867.5628	9° 8' 21.548" N	76° 27' 50.360" E
50	1016071.021	658077.8128	9° 11' 20.609" N	76° 26' 19.702" E	101	1010675.47	660783.8713	9° 8' 24.620" N	76° 27' 47.632" E

ARATTUPUZZHA – THRIKUNNAPAZHA DEPOSIT, ALAPPUZZHA DISTRICT, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting					
1	9° 13' 31.850" N	76° 25' 47.380" E	1020098.783	657075.1009	50	9° 15' 20.037" N	76° 24' 29.653" E	1023412.808	654689.634
2	9° 13' 59.740" N	76° 25' 30.510" E	1020953.501	656556.7834	51	9° 15' 20.833" N	76° 24' 29.325" E	1023437.227	654679.5373
3	9° 14' 22.730" N	76° 25' 17.700" E	1021658.189	656162.9982	52	9° 15' 23.245" N	76° 24' 28.288" E	1023511.196	654647.601
4	9° 14' 37.960" N	76° 25' 9.350" E	1022125.036	655906.2924	53	9° 15' 23.717" N	76° 24' 28.125" E	1023525.683	654642.5527
5	9° 14' 40.040" N	76° 25' 5.980" E	1022188.524	655803.1863	54	9° 15' 24.415" N	76° 24' 27.854" E	1023547.083	654634.2119
6	9° 14' 44.330" N	76° 25' 1.400" E	1022319.756	655662.8818	55	9° 15' 25.249" N	76° 24' 27.462" E	1023572.654	654622.1398
7	9° 14' 50.040" N	76° 24' 58.580" E	1022494.824	655576.1194	56	9° 15' 26.523" N	76° 24' 26.748" E	1023611.724	654600.1904
8	9° 14' 58.970" N	76° 24' 53.520" E	1022768.537	655420.6016	57	9° 15' 27.056" N	76° 24' 26.646" E	1023628.076	654597.0077
9	9° 15' 8.480" N	76° 24' 53.590" E	1023060.69	655421.5779	58	9° 15' 27.704" N	76° 24' 26.226" E	1023647.936	654584.1143
10	9° 15' 18.320" N	76° 24' 49.460" E	1023362.471	655294.3344	59	9° 15' 28.977" N	76° 24' 25.934" E	1023687.01	654575.0584
11	9° 15' 32.370" N	76° 24' 43.350" E	1023793.343	655106.1529	60	9° 15' 29.245" N	76° 24' 26.020" E	1023695.254	654577.6403
12	9° 15' 32.920" N	76° 24' 41.090" E	1023809.966	655037.1142	61	9° 15' 30.246" N	76° 24' 26.264" E	1023726.027	654584.96
13	9° 15' 40.850" N	76° 24' 42.740" E	1024053.772	655086.5035	62	9° 15' 30.925" N	76° 24' 26.090" E	1023746.879	654579.5824
14	9° 15' 50.270" N	76° 24' 51.170" E	1024344.173	655342.6228	63	9° 15' 31.306" N	76° 24' 25.649" E	1023758.512	654566.0836
15	9° 15' 55.080" N	76° 24' 41.710" E	1024490.789	655053.3357	64	9° 15' 31.375" N	76° 24' 25.272" E	1023760.597	654554.5601
16	9° 16' 3.750" N	76° 24' 38.390" E	1024756.726	654950.96	65	9° 15' 31.708" N	76° 24' 24.636" E	1023770.747	654535.1105
17	9° 16' 6.470" N	76° 24' 30.130" E	1024839.285	654698.5529	66	9° 15' 32.356" N	76° 24' 24.200" E	1023790.611	654521.7214
18	9° 16' 27.510" N	76° 24' 19.710" E	1025484.368	654378.0046	67	9° 15' 33.024" N	76° 24' 23.860" E	1023811.08	654511.265
19	9° 13' 22.258" N	76° 25' 25.506" E	1019801.448	656408.6406	68	9° 15' 40.365" N	76° 24' 20.761" E	1024036.225	654415.8157
20	9° 13' 33.100" N	76° 25' 20.193" E	1020133.871	656245.1598	69	9° 15' 41.181" N	76° 24' 20.506" E	1024061.247	654407.914
21	9° 13' 39.513" N	76° 25' 17.295" E	1020330.537	656155.9357	70	9° 15' 44.373" N	76° 24' 19.058" E	1024159.141	654363.3568
22	9° 13' 42.369" N	76° 25' 15.766" E	1020418.06	656108.9092	71	9° 15' 46.220" N	76° 24' 18.160" E	1024215.771	654335.7006
23	9° 13' 43.761" N	76° 25' 15.049" E	1020460.752	656086.85	72	9° 15' 48.471" N	76° 24' 17.111" E	1024284.801	654303.435
24	9° 13' 45.233" N	76° 25' 14.389" E	1020505.889	656066.5176	73	9° 15' 51.170" N	76° 24' 15.752" E	1024367.55	654261.6215
25	9° 13' 51.721" N	76° 25' 11.341" E	1020704.829	655972.7134	74	9° 15' 53.897" N	76° 24' 14.651" E	1024451.178	654227.7097
26	9° 13' 53.402" N	76° 25' 11.145" E	1020756.442	655966.5078	75	9° 15' 54.385" N	76° 24' 14.416" E	1024466.154	654220.4683
27	9° 13' 54.438" N	76° 25' 10.075" E	1020788.143	655933.7228	76	9° 15' 55.526" N	76° 24' 13.867" E	1024501.112	654203.5654
28	9° 13' 59.088" N	76° 25' 7.907" E	1020930.719	655866.9979	77	9° 15' 56.518" N	76° 24' 13.148" E	1024531.512	654181.5063
29	9° 14' 4.305" N	76° 25' 5.655" E	1021090.73	655797.6379	78	9° 15' 56.847" N	76° 24' 13.059" E	1024541.609	654178.7626
30	9° 14' 6.998" N	76° 25' 4.156" E	1021173.26	655751.5442	79	9° 15' 58.737" N	76° 24' 12.132" E	1024599.555	654150.2284
31	9° 14' 9.662" N	76° 25' 2.599" E	1021254.911	655703.6946	80	9° 16' 0.127" N	76° 24' 11.470" E	1024642.192	654129.8704
32	9° 14' 12.618" N	76° 25' 1.026" E	1021345.531	655655.3256	81	9° 16' 0.568" N	76° 24' 11.267" E	1024655.691	654123.6148
33	9° 14' 45.289" N	76° 24' 45.955" E	1022347.331	655191.3965	82	9° 16' 2.035" N	76° 24' 10.561" E	1024700.687	654101.885
34	9° 14' 47.851" N	76° 24' 44.908" E	1022425.91	655159.1309	83	9° 16' 3.095" N	76° 24' 9.932" E	1024733.172	654082.5695
35	9° 14' 49.834" N	76° 24' 43.945" E	1022486.71	655129.4993	84	9° 16' 3.681" N	76° 24' 9.805" E	1024751.17	654078.6186
36	9° 14' 54.436" N	76° 24' 41.921" E	1022627.844	655067.1631	85	9° 16' 4.046" N	76° 24' 9.641" E	1024762.365	654073.5703
37	9° 14' 57.099" N	76° 24' 40.670" E	1022709.496	655028.642	86	9° 16' 4.705" N	76° 24' 9.334" E	1024782.558	654064.1321
38	9° 14' 59.704" N	76° 24' 39.416" E	1022789.391	654990.066	87	9° 16' 6.183" N	76° 24' 8.696" E	1024827.883	654044.4874
39	9° 15' 3.376" N	76° 24' 37.881" E	1022901.991	654942.7651	88	9° 16' 6.805" N	76° 24' 8.494" E	1024846.979	654038.2318
40	9° 15' 8.287" N	76° 24' 35.541" E	1023052.564	654870.7712	89	9° 16' 8.188" N	76° 24' 7.608" E	1024889.342	654011.0146
41	9° 15' 11.205" N	76° 24' 34.138" E	1023142.063	654827.5858	90	9° 16' 8.717" N	76° 24' 7.415" E	1024905.584	654005.0883
42	9° 15' 12.595" N	76° 24' 33.392" E	1023184.644	654804.6487	91	9° 16' 9.130" N	76° 24' 7.293" E	1024918.256	654001.3039
43	9° 15' 14.133" N	76° 24' 32.718" E	1023231.836	654783.9066	92	9° 16' 11.348" N	76° 24' 6.218" E	1024986.248	653968.2133
44	9° 15' 16.507" N	76° 24' 31.494" E	1023304.598	654746.2634	93	9° 16' 11.500" N	76° 24' 6.125" E	1024990.914	653965.3844
45	9° 15' 16.529" N	76° 24' 31.189" E	1023305.256	654736.9349	94	9° 16' 14.243" N	76° 24' 4.761" E	1025075.011	653923.4083
46	9° 15' 16.773" N	76° 24' 30.972" E	1023312.719	654730.2952	95	9° 16' 15.776" N	76° 24' 4.445" E	1025122.061	653913.5839
47	9° 15' 17.049" N	76° 24' 31.166" E	1023321.224	654736.1667	96	9° 16' 16.453" N	76° 24' 3.747" E	1025142.764	653892.1897
48	9° 15' 17.316" N	76° 24' 31.035" E	1023329.4	654732.1609	97	9° 16' 18.381" N	76° 24' 2.861" E	1025201.901	653864.9416
49	9° 15' 19.654" N	76° 24' 29.765" E	1023401.065	654693.0911	98	9° 16' 19.758" N	76° 24' 2.099" E	1025244.094	653841.5125

THRIKKUNNAPUZHA- THOTTAPALLI DEPOSIT, ALAPPUZHA DISTRICT, KERALA

Sl No.	Latitude	Longitude	Northing	Easting
1	9° 16' 27.510" N	76° 24' 19.710" E	1025484.368	654378.0046
2	9° 16' 19.780" N	76° 24' 2.150" E	1025244.79	653843.0609
3	9° 16' 32.250" N	76° 24' 18.500" E	1025629.833	654340.5033
4	9° 16' 47.300" N	76° 24' 17.310" E	1026092.019	654302.3602
5	9° 16' 57.610" N	76° 24' 19.120" E	1026408.957	654356.3421
6	9° 17' 4.780" N	76° 24' 15.470" E	1026628.776	654244.0864
7	9° 17' 13.790" N	76° 24' 7.810" E	1026904.636	654009.2394
8	9° 17' 25.060" N	76° 24' 2.410" E	1027250.195	653843.0871
9	9° 17' 33.630" N	76° 23' 56.530" E	1027512.754	653662.6171
10	9° 17' 50.600" N	76° 23' 51.810" E	1028033.497	653516.5299
11	9° 18' 4.610" N	76° 23' 44.660" E	1028463.018	653296.6534
12	9° 18' 6.760" N	76° 23' 40.120" E	1028528.52	653157.8572
13	9° 18' 15.510" N	76° 23' 33.070" E	1028796.47	652941.6734
14	9° 19' 6.580" N	76° 23' 22.770" E	1030364.08	652621.2182
15	9° 18' 36.580" N	76° 22' 59.720" E	1029439.741	651921.4951
16	9° 18' 12.140" N	76° 23' 9.360" E	1028690.109	652218.5848
17	9° 17' 41.580" N	76° 23' 24.480" E	1027753.129	652683.643
18	9° 16' 48.370" N	76° 23' 48.870" E	1026121.467	653434.3404
19	9° 19' 19.350" N	76° 23' 17.200" E	1030755.7	652449.7211
20	9° 19' 21.370" N	76° 23' 10.920" E	1030817.002	652257.858
21	9° 19' 10.210" N	76° 22' 45.320" E	1030471.119	651478.0721
22	9° 18' 50.790" N	76° 22' 55.210" E	1029875.726	651782.1743

**THRIKKUNNAPUZHA- THOTTAPALLI EASTERN EXTENSION DEPOSIT,
ALAPPUZHA DISTRICT, KERALA**

Sl. No.	Latitude	Longitude	Northing	Easting
1	9° 16' 47.300" N	76° 24' 17.310" E	1026092.019	654302.3602
2	9° 16' 57.610" N	76° 24' 19.120" E	1026408.957	654356.3421
3	9° 17' 4.780" N	76° 24' 15.470" E	1026628.776	654244.0864
4	9° 17' 13.790" N	76° 24' 7.810" E	1026904.636	654009.2394
5	9° 17' 25.060" N	76° 24' 2.410" E	1027250.195	653843.0871
6	9° 17' 33.630" N	76° 23' 56.530" E	1027512.754	653662.6171
7	9° 17' 50.600" N	76° 23' 51.810" E	1028033.497	653516.5299
8	9° 18' 4.610" N	76° 23' 44.660" E	1028463.018	653296.6534
9	9° 18' 6.760" N	76° 23' 40.120" E	1028528.52	653157.8572
10	9° 18' 15.510" N	76° 23' 33.070" E	1028796.47	652941.6734
11	9° 19' 6.580" N	76° 23' 22.770" E	1030364.08	652621.2182
12	9° 19' 19.350" N	76° 23' 17.200" E	1030755.7	652449.7211
13	9° 19' 26.120" N	76° 23' 17.140" E	1030963.664	652447.0739
14	9° 19' 47.810" N	76° 24' 6.980" E	1031635.974	653965.1813
15	9° 17' 32.540" N	76° 25' 4.200" E	1027487.468	655727.7365
16	9° 15' 47.480" N	76° 25' 48.650" E	1024265.476	657097.1523
17	9° 15' 20.963" N	76° 24' 48.311" E	1023443.533	655258.9311
18	9° 15' 32.370" N	76° 24' 43.350" E	1023793.343	655106.1529
19	9° 15' 32.920" N	76° 24' 41.090" E	1023809.966	655037.1142
20	9° 15' 40.850" N	76° 24' 42.740" E	1024053.772	655086.5035
21	9° 15' 50.270" N	76° 24' 51.170" E	1024344.173	655342.6228
22	9° 15' 55.080" N	76° 24' 41.710" E	1024490.789	655053.3357
23	9° 16' 3.750" N	76° 24' 38.390" E	1024756.726	654950.96
24	9° 16' 6.470" N	76° 24' 30.130" E	1024839.285	654698.5529
25	9° 16' 27.157" N	76° 24' 19.885" E	1025473.547	654383.3817
26	9° 16' 27.510" N	76° 24' 19.710" E	1025484.368	654378.0046
27	9° 16' 32.250" N	76° 24' 18.500" E	1025629.833	654340.5033

**NTPC DREDGING SITE IN THE KAYAMKULAM LAKE BED (TS CANAL), EAST
OF ARATTUPUZHA VILLAGE, ALAPPUZHA DISTRICT, KERALA**

Sl. No.	Latitude	Longitude	Northing	Easting
1	9° 14' 37.960" N	76° 25' 9.350" E	1022125.036	655906.2924
2	9° 14' 39.180" N	76° 25' 10.540" E	1022162.659	655942.4619
3	9° 14' 34.280" N	76° 25' 13.900" E	1022012.54	656045.6082
4	9° 14' 35.060" N	76° 25' 16.580" E	1022036.828	656127.3063
5	9° 14' 37.380" N	76° 25' 16.160" E	1022108.047	656114.2039
6	9° 14' 48.810" N	76° 25' 19.760" E	1022459.612	656222.6751
7	9° 14' 46.150" N	76° 25' 23.740" E	1022378.382	656344.4696
8	9° 13' 50.840" N	76° 25' 50.750" E	1020682.565	657175.6221
9	9° 12' 44.810" N	76° 26' 22.630" E	1018658.035	658156.8076
10	9° 12' 39.360" N	76° 26' 9.440" E	1018488.994	657754.8834
11	9° 12' 42.940" N	76° 26' 7.150" E	1018598.691	657684.5448
12	9° 12' 42.470" N	76° 26' 5.850" E	1018584.094	657644.923
13	9° 12' 51.830" N	76° 26' 1.800" E	1018871.136	657520.1533
14	9° 12' 52.520" N	76° 26' 3.930" E	1018892.593	657585.0814
15	9° 13' 10.220" N	76° 25' 56.150" E	1019435.384	657345.4381
16	9° 13' 27.753" N	76° 25' 49.041" E	1019973.124	657126.3074
17	9° 13' 31.850" N	76° 25' 47.380" E	1020098.783	657075.1009
18	9° 13' 59.800" N	76° 25' 32.000" E	1020955.525	656602.2522
19	9° 13' 59.740" N	76° 25' 30.510" E	1020953.501	656556.7834

NTPC PLANT SITE, ALAPPUZHA DISTRICT, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting
1	9° 12' 44.810" N	76° 26' 22.630" E	1018658.035	658156.8076
2	9° 12' 45.510" N	76° 26' 27.600" E	1018680.15	658308.4196
3	9° 13' 3.520" N	76° 26' 23.370" E	1019232.897	658177.081
4	9° 13' 5.720" N	76° 26' 22.430" E	1019300.365	658148.1178
5	9° 13' 13.310" N	76° 26' 21.700" E	1019533.44	658124.8979
6	9° 13' 15.960" N	76° 26' 23.680" E	1019615.091	658185.0039
7	9° 13' 28.850" N	76° 26' 22.200" E	1020010.89	658138.2363
8	9° 13' 39.370" N	76° 26' 25.950" E	1020334.525	658251.39
9	9° 13' 47.400" N	76° 26' 26.040" E	1020581.218	658253.142
10	9° 14' 0.410" N	76° 26' 23.560" E	1020980.58	658175.8374
11	9° 14' 12.040" N	76° 26' 23.130" E	1021337.8	658161.2723
12	9° 14' 33.900" N	76° 26' 18.320" E	1022008.747	658011.7599
13	9° 14' 39.100" N	76° 26' 11.420" E	1022167.642	657800.527
14	9° 14' 41.270" N	76° 25' 56.290" E	1022232.447	657338.491
15	9° 14' 50.430" N	76° 25' 47.290" E	1022512.739	657062.6829
16	9° 14' 58.390" N	76° 25' 41.640" E	1022756.578	656889.2667
17	9° 14' 46.197" N	76° 25' 23.691" E	1022379.827	656342.967
18	9° 13' 55.533" N	76° 25' 48.456" E	1020826.463	657105.0249

THOTTAPALLI – AMBALAPUZHA DEPOSIT, ALAPPUZHA DISTRICT, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting	53	9° 22' 5.984" N	76° 21' 28.080" E	1035861.638	649100.5001
1	9° 20' 2.500" N	76° 22' 42.050" E	1032077.046	651372.0313	54	9° 22' 7.191" N	76° 21' 27.628" E	1035898.66	649086.556
2	9° 19' 53.310" N	76° 22' 44.050" E	1031794.973	651434.1565	55	9° 22' 7.849" N	76° 21' 28.124" E	1035918.925	649101.5975
3	9° 19' 21.370" N	76° 23' 10.910" E	1030817.001	652257.5529	56	9° 22' 11.765" N	76° 21' 25.913" E	1036038.973	649033.7084
4	9° 19' 9.972" N	76° 22' 44.834" E	1030463.739	651463.2834	57	9° 22' 15.358" N	76° 21' 24.440" E	1036149.174	648988.3388
5	9° 19' 10.551" N	76° 22' 44.792" E	1030481.532	651461.9116	58	9° 22' 16.761" N	76° 21' 23.906" E	1036192.195	648971.8768
6	9° 19' 10.834" N	76° 22' 44.537" E	1030490.202	651454.1196	59	9° 22' 17.865" N	76° 21' 22.710" E	1036225.982	648935.2655
7	9° 19' 10.857" N	76° 22' 44.099" E	1030490.86	651440.7305	60	9° 22' 27.742" N	76° 21' 17.648" E	1036528.776	648779.6671
8	9° 19' 10.111" N	76° 22' 42.265" E	1030467.704	651384.8693	61	9° 22' 28.917" N	76° 21' 17.611" E	1036564.895	648778.3932
9	9° 19' 12.913" N	76° 22' 42.902" E	1030553.855	651403.9653	62	9° 22' 30.067" N	76° 21' 16.867" E	1036600.124	648755.5658
10	9° 19' 14.241" N	76° 22' 42.979" E	1030594.681	651406.1602	63	9° 22' 30.540" N	76° 21' 16.075" E	1036614.55	648731.3258
11	9° 19' 16.632" N	76° 22' 42.412" E	1030668.055	651388.565	64	9° 22' 35.205" N	76° 21' 12.989" E	1036757.486	648636.6444
12	9° 19' 21.619" N	76° 22' 40.102" E	1030820.979	651317.4848	65	9° 22' 38.035" N	76° 21' 10.950" E	1036844.186	648574.0887
13	9° 19' 26.472" N	76° 22' 37.999" E	1030969.795	651252.7342	66	9° 22' 41.693" N	76° 21' 9.000" E	1036956.347	648514.167
14	9° 19' 30.758" N	76° 22' 36.318" E	1031101.272	651200.9337	67	9° 22' 44.634" N	76° 21' 7.982" E	1037046.559	648482.7794
15	9° 19' 35.878" N	76° 22' 34.060" E	1031258.292	651131.4365	68	9° 22' 47.788" N	76° 21' 7.102" E	1037143.334	648455.5645
16	9° 19' 37.027" N	76° 22' 33.694" E	1031293.549	651120.1326	69	9° 22' 48.195" N	76° 21' 7.327" E	1037155.882	648462.3772
17	9° 19' 38.852" N	76° 22' 32.865" E	1031349.507	651094.5997	70	9° 22' 48.887" N	76° 21' 7.531" E	1037177.173	648468.523
18	9° 19' 42.284" N	76° 22' 31.362" E	1031454.739	651048.3307	71	9° 22' 49.418" N	76° 21' 7.080" E	1037193.415	648454.6949
19	9° 19' 44.466" N	76° 22' 30.549" E	1031521.7	651023.2643	72	9° 22' 49.756" N	76° 21' 6.578" E	1037203.731	648439.3304
20	9° 19' 45.862" N	76° 22' 30.094" E	1031564.501	651009.2167	73	9° 22' 49.943" N	76° 21' 6.064" E	1037209.423	648423.6259
21	9° 19' 45.792" N	76° 22' 29.647" E	1031562.306	650995.6081	74	9° 22' 51.759" N	76° 21' 5.204" E	1037265.12	648397.1769
22	9° 19' 46.242" N	76° 22' 29.385" E	1031576.119	650987.531	75	9° 22' 58.931" N	76° 21' 2.272" E	1037485.088	648306.8744
23	9° 19' 48.998" N	76° 22' 28.216" E	1031660.624	650951.534	76	9° 23' 6.684" N	76° 20' 58.945" E	1037722.874	648204.4615
24	9° 19' 53.037" N	76° 22' 26.527" E	1031784.501	650899.5415	77	9° 23' 10.656" N	76° 20' 57.453" E	1037844.693	648158.4775
25	9° 19' 53.709" N	76° 22' 26.327" E	1031805.133	650893.3408	78	9° 23' 12.616" N	76° 20' 56.701" E	1037904.834	648135.321
26	9° 19' 54.776" N	76° 22' 25.769" E	1031837.838	650876.1928	79	9° 23' 13.036" N	76° 20' 57.170" E	1037917.784	648149.5881
27	9° 19' 58.324" N	76° 22' 24.159" E	1031946.624	650826.6421	80	9° 23' 13.845" N	76° 20' 56.756" E	1037942.587	648136.8574
28	9° 19' 59.662" N	76° 22' 23.749" E	1031987.685	650813.9771	81	9° 23' 13.796" N	76° 20' 56.195" E	1037941.011	648119.7476
29	9° 20' 1.000" N	76° 22' 23.100" E	1032028.73	650794.0032	82	9° 23' 20.867" N	76° 20' 53.386" E	1038157.883	648033.2016
30	9° 20' 2.428" N	76° 22' 22.634" E	1032072.519	650779.6263	83	9° 23' 22.405" N	76° 20' 52.794" E	1038205.074	648014.9836
31	9° 20' 3.917" N	76° 22' 21.931" E	1032118.174	650758.0062	84	9° 23' 23.462" N	76° 20' 52.545" E	1038237.525	648007.2521
32	9° 20' 5.490" N	76° 22' 21.470" E	1032166.462	650743.7391	85	9° 23' 32.622" N	76° 20' 49.161" E	1038518.511	647902.9321
33	9° 20' 21.988" N	76° 22' 14.272" E	1032672.395	650522.1603	86	9° 23' 38.958" N	76° 20' 46.908" E	1038712.872	647833.4624
34	9° 20' 27.225" N	76° 22' 12.314" E	1032833.064	650461.7996	87	9° 23' 40.931" N	76° 20' 46.112" E	1038773.406	647808.9531
35	9° 20' 30.288" N	76° 22' 11.096" E	1032927.008	650424.2662	88	9° 23' 46.861" N	76° 20' 44.092" E	1038955.313	647746.6407
36	9° 20' 31.366" N	76° 22' 10.319" E	1032960.035	650400.4336	89	9° 23' 51.280" N	76° 20' 54.540" E	1039092.292	648064.8303
37	9° 20' 31.928" N	76° 22' 10.189" E	1032977.272	650396.3905	90	9° 23' 37.070" N	76° 21' 0.220" E	1038656.44	648239.7819
38	9° 20' 32.585" N	76° 22' 10.170" E	1032997.465	650395.732	91	9° 23' 26.410" N	76° 21' 9.480" E	1038330.061	648523.5296
39	9° 20' 36.500" N	76° 22' 8.480" E	1033117.528	650343.712	92	9° 23' 12.550" N	76° 21' 11.960" E	1037904.585	648600.8261
40	9° 20' 45.105" N	76° 22' 4.284" E	1033381.36	650214.6497	93	9° 22' 57.450" N	76° 21' 20.190" E	1037441.693	648853.6859
41	9° 20' 52.866" N	76° 22' 0.170" E	1033619.291	650088.2214	94	9° 22' 57.040" N	76° 21' 27.100" E	1037429.912	649064.5383
42	9° 20' 56.545" N	76° 21' 58.472" E	1033732.11	650035.9819	95	9° 22' 34.220" N	76° 21' 41.190" E	1036730.562	649497.0985
43	9° 21' 0.511" N	76° 21' 56.682" E	1033853.71	649980.889	96	9° 22' 2.350" N	76° 21' 48.110" E	1035752.357	649712.0059
44	9° 21' 7.512" N	76° 21' 53.141" E	1034068.375	649872.0202	97	9° 21' 47.740" N	76° 21' 56.280" E	1035304.515	649963.0013
45	9° 21' 17.934" N	76° 21' 48.426" E	1034387.957	649726.9349	98	9° 21' 34.750" N	76° 22' 6.400" E	1034906.67	650273.3017
46	9° 21' 21.275" N	76° 21' 47.295" E	1034490.461	649692.0354	99	9° 21' 21.640" N	76° 22' 3.210" E	1034503.562	650177.5407
47	9° 21' 24.819" N	76° 21' 45.475" E	1034599.11	649636.0645	100	9° 21' 7.180" N	76° 22' 6.790" E	1034059.785	650288.4896
48	9° 21' 35.504" N	76° 21' 40.412" E	1034926.767	649480.3437	101	9° 20' 55.660" N	76° 22' 15.090" E	1033706.883	650543.0976
49	9° 21' 36.664" N	76° 21' 40.319" E	1034962.372	649477.3706	102	9° 20' 45.300" N	76° 22' 12.110" E	1033388.278	650453.4135
50	9° 21' 40.035" N	76° 21' 38.678" E	1035065.754	649426.8871	103	9° 20' 39.790" N	76° 22' 17.000" E	1033219.594	650603.2675
51	9° 21' 44.716" N	76° 21' 36.595" E	1035209.303	649362.795	104	9° 20' 23.060" N	76° 22' 24.120" E	1032706.504	650822.503
52	9° 21' 52.916" N	76° 21' 33.538" E	1035460.827	649268.5666	105	9° 20' 5.850" N	76° 22' 37.450" E	1032179.409	651231.2769

ALAPPUZHA – KOCHI DEPOSIT, ALAPPUZHA AND ERNAKULAM DISTRICTS, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting	45	9° 50' 31.261" N	76° 16' 4.058" E	1088208.338	639021.8458
1	9° 29' 59.196" N	76° 18' 57.859" E	1050380.719	644462.8069	46	9° 50' 17.537" N	76° 16' 7.351" E	1087787.157	639123.7629
2	9° 30' 7.060" N	76° 19' 44.550" E	1050627.721	645885.7774	47	9° 49' 56.915" N	76° 16' 10.756" E	1087154.04	639229.8956
3	9° 30' 38.370" N	76° 19' 42.460" E	1051589.291	645818.3566	48	9° 49' 55.290" N	76° 16' 12.064" E	1087104.273	639269.9608
4	9° 31' 25.670" N	76° 19' 42.540" E	1053042.312	645815.2247	49	9° 49' 51.880" N	76° 16' 11.172" E	1086999.441	639243.1775
5	9° 32' 52.100" N	76° 19' 38.020" E	1055696.835	645667.1999	50	9° 49' 28.411" N	76° 16' 14.717" E	1086278.897	639353.9104
6	9° 33' 21.730" N	76° 19' 16.850" E	1056604.565	645018.1984	51	9° 49' 8.401" N	76° 16' 18.816" E	1085664.686	639481.1063
7	9° 37' 0.571" N	76° 18' 50.606" E	1063324.079	644192.2948	52	9° 48' 52.220" N	76° 16' 21.399" E	1085167.901	639561.6853
8	9° 40' 19.410" N	76° 18' 26.760" E	1069429.457	643441.9854	53	9° 48' 51.593" N	76° 16' 22.968" E	1085148.821	639609.5581
9	9° 40' 48.990" N	76° 18' 11.620" E	1070336.36	642977.0325	54	9° 48' 47.551" N	76° 16' 23.605" E	1085024.744	639629.4324
10	9° 44' 29.090" N	76° 17' 45.480" E	1077094.578	642154.4866	55	9° 48' 46.138" N	76° 16' 22.769" E	1084981.229	639604.1507
11	9° 46' 35.250" N	76° 17' 17.110" E	1080966.79	641275.1596	56	9° 48' 33.224" N	76° 16' 24.311" E	1084584.723	639652.6309
12	9° 50' 27.648" N	76° 16' 23.636" E	1088099.609	639618.7288	57	9° 48' 22.399" N	76° 16' 26.402" E	1084252.422	639717.5987
13	9° 54' 2.150" N	76° 15' 34.280" E	1094683.205	638090.2599	58	9° 48' 19.495" N	76° 16' 27.593" E	1084163.368	639754.2276
14	9° 55' 30.270" N	76° 15' 14.570" E	1097387.889	637479.7051	59	9° 48' 8.368" N	76° 16' 29.649" E	1083821.786	639818.1612
15	9° 57' 25.660" N	76° 14' 25.840" E	1100926.962	635982.2855	60	9° 47' 59.682" N	76° 16' 31.294" E	1083555.152	639869.2836
16	9° 57' 19.872" N	76° 14' 17.081" E	1100748.172	635716.1926	61	9° 47' 58.423" N	76° 16' 33.041" E	1083516.672	639922.6737
17	9° 56' 52.735" N	76° 14' 25.650" E	1099915.518	635980.2748	62	9° 47' 55.496" N	76° 16' 31.515" E	1083426.571	639876.4916
18	9° 56' 27.261" N	76° 14' 35.668" E	1099134.148	636288.3146	63	9° 47' 15.817" N	76° 16' 39.032" E	1082208.556	640110.167
19	9° 56' 23.424" N	76° 14' 37.518" E	1099016.472	636345.1073	64	9° 47' 12.168" N	76° 16' 39.919" E	1082096.56	640137.6064
20	9° 56' 13.680" N	76° 14' 40.250" E	1098717.457	636429.4217	65	9° 46' 34.571" N	76° 16' 46.819" E	1080942.435	640352.2314
21	9° 55' 47.748" N	76° 14' 49.731" E	1097921.946	636721.1537	66	9° 46' 1.873" N	76° 16' 51.690" E	1079938.531	640504.4754
22	9° 55' 35.691" N	76° 14' 54.292" E	1097552.099	636861.4705	67	9° 45' 3.741" N	76° 17' 0.760" E	1078153.837	640787.6379
23	9° 55' 34.685" N	76° 14' 53.885" E	1097521.133	636849.1942	68	9° 44' 59.563" N	76° 17' 2.616" E	1078025.702	640844.6947
24	9° 55' 9.843" N	76° 15' 3.543" E	1096759.134	637146.2255	69	9° 44' 10.569" N	76° 17' 6.364" E	1076521.086	640964.6223
25	9° 55' 3.691" N	76° 15' 5.375" E	1096570.356	637202.7301	70	9° 43' 53.557" N	76° 17' 8.266" E	1075998.709	641024.5579
26	9° 54' 44.023" N	76° 15' 9.437" E	1095966.628	637328.7196	71	9° 41' 56.245" N	76° 17' 19.470" E	1072396.299	641379.6949
27	9° 54' 42.817" N	76° 15' 10.268" E	1095929.699	637354.1594	72	9° 40' 29.025" N	76° 17' 28.927" E	1069718.099	641678.0872
28	9° 54' 0.346" N	76° 15' 22.020" E	1094626.37	637717.0494	73	9° 40' 9.109" N	76° 17' 29.570" E	1069106.372	641699.9869
29	9° 54' 0.437" N	76° 15' 22.988" E	1094629.274	637746.519	74	9° 39' 46.315" N	76° 17' 32.319" E	1068406.474	641786.4524
30	9° 53' 57.888" N	76° 15' 23.674" E	1094551.069	637767.6875	75	9° 38' 36.390" N	76° 17' 38.795" E	1066259.211	641991.9851
31	9° 53' 57.116" N	76° 15' 22.713" E	1094527.222	637738.5148	76	9° 37' 45.996" N	76° 17' 45.477" E	1064711.93	642201.5218
32	9° 53' 49.406" N	76° 15' 24.083" E	1094290.553	637781.1547	77	9° 37' 28.712" N	76° 17' 45.736" E	1064181.011	642211.4214
33	9° 52' 59.025" N	76° 15' 35.911" E	1092744.257	638147.2698	78	9° 37' 0.664" N	76° 17' 46.479" E	1063319.51	642237.3416
34	9° 52' 56.414" N	76° 15' 39.255" E	1092664.436	638249.4365	79	9° 33' 48.042" N	76° 18' 16.431" E	1057405.84	643172.8843
35	9° 52' 54.649" N	76° 15' 39.615" E	1092610.27	638260.6005	80	9° 33' 20.845" N	76° 18' 21.742" E	1056570.984	643337.9812
36	9° 52' 49.992" N	76° 15' 37.819" E	1092466.993	638206.4361	81	9° 33' 1.112" N	76° 18' 25.157" E	1055965.204	643444.4064
37	9° 52' 30.054" N	76° 15' 40.732" E	1091854.869	638297.4665	82	9° 32' 22.187" N	76° 18' 30.687" E	1054770.108	643617.5598
38	9° 52' 13.329" N	76° 15' 43.880" E	1091341.451	638395.3018	83	9° 32' 8.645" N	76° 18' 34.258" E	1054354.523	643728.0327
39	9° 52' 12.402" N	76° 15' 46.948" E	1091313.307	638488.8658	84	9° 31' 44.702" N	76° 18' 36.717" E	1053619.305	643805.8083
40	9° 52' 7.633" N	76° 15' 48.077" E	1091166.946	638523.8244	85	9° 31' 15.535" N	76° 18' 42.182" E	1052723.972	643975.8312
41	9° 52' 1.679" N	76° 15' 46.107" E	1090983.836	638464.4986	86	9° 31' 4.202" N	76° 18' 45.763" E	1052376.225	644086.363
42	9° 50' 38.471" N	76° 16' 2.281" E	1088429.636	638966.8786	87	9° 31' 2.802" N	76° 18' 44.567" E	1052333.09	644050.0619
43	9° 50' 37.475" N	76° 16' 3.903" E	1088399.218	639016.4072	88	9° 30' 52.077" N	76° 18' 46.658" E	1052003.88	644115.0477
44	9° 50' 32.715" N	76° 16' 4.773" E	1088253.093	639043.4877	89	9° 30' 41.832" N	76° 18' 47.994" E	1051689.319	644156.9907

AZHIKODE- CHAVAKKAD, THRISSUR DISTRICT, KERALA

DGPS Readings Datum: WGS 84 Projection: UTM_ZONE_43N				
Sl. No.	Latitude	Longitude	Easting	Northing
1	10° 10' 42.18"	76° 9' 46.52"	627389.0923	1125363.6391
2	10° 10' 49.71"	76° 9' 50.35"	627505.0478	1125595.6176
3	10° 10' 56.50"	76° 9' 52.14"	627558.5213	1125804.2159
4	10° 11' 00.06"	76° 9' 57.89"	627733.3059	1125914.3104
5	10° 11' 05.76"	76° 9' 54.64"	627633.6159	1126089.0716
6	10° 11' 12.62"	76° 9' 51.47"	627536.4076	1126299.2335
7	10° 11' 11.96"	76° 9' 48.26"	627438.9857	1126278.8848
8	10° 11' 13.83"	76° 9' 45.08"	627341.8074	1126335.9003
9	10° 11' 15.27"	76° 9' 44.83"	627334.0890	1126380.0800
10	10° 11' 15.89"	76° 9' 46.04"	627370.7773	1126399.2886
11	10° 11' 17.13"	76° 9' 55.70"	627664.6857	1126438.2371
12	10° 11' 18.36"	76° 9' 56.11"	627677.0618	1126476.1736
13	10° 13' 39.94"	76° 9' 12.92"	626347.1781	1130820.6042
14	10° 17' 27.85"	76° 8' 05.24"	624263.1468	1137814.2982
15	10° 21' 15.45"	76° 6' 46.25"	621835.8376	1144797.3281
16	10° 26' 00.60"	76° 4' 56.03"	618453.6549	1153545.0185
17	10° 28' 43.97"	76° 3' 27.24"	615737.0075	1158554.2658
18	10° 30' 51.76"	76° 2' 29.69"	613974.3499	1162473.8631
19	10° 30' 46.78"	76° 2' 20.36"	613691.1524	1162319.9356
20	10° 30' 52.36"	76° 2' 17.20"	613594.7583	1162491.1798
21	10° 31' 02.23"	76° 2' 13.02"	613466.6828	1162793.8860
22	10° 31' 34.10"	76° 1' 51.68"	612814.5616	1163770.5921
23	10° 31' 44.58"	76° 1' 52.33"	612833.2917	1164092.7284
24	10° 31' 52.36"	76° 1' 56.24"	612951.2406	1164332.0414
25	10° 34' 26.18"	76° 0' 45.08"	610773.0413	1169049.9326
26	10° 34' 19.32"	76° 0' 29.93"	610313.3530	1168837.7021
27	10° 33' 20.60"	76° 0' 58.06"	611174.0989	1167036.6262
28	10° 32' 46.35"	76° 1' 10.70"	611561.8087	1165985.9640
29	10° 32' 18.04"	76° 1' 23.75"	611961.1750	1165117.7297
30	10° 31' 42.94"	76° 1' 38.23"	612404.7766	1164040.9317
31	10° 30' 51.14"	76° 2' 04.05"	613195.0856	1162452.1009
32	10° 30' 02.71"	76° 2' 36.30"	614180.3615	1160967.7417
33	10° 28' 50.37"	76° 3' 14.87"	615360.2185	1158749.5865
34	10° 28' 01.06"	76° 3' 39.33"	616109.1302	1157237.5081
35	10° 27' 33.53"	76° 3' 55.01"	616588.5585	1156393.3993
36	10° 26' 58.52"	76° 4' 10.70"	617069.3384	1155319.3967
37	10° 26' 03.64"	76° 4' 34.25"	617791.1994	1153636.1913
38	10° 25' 13.55"	76° 4' 55.44"	618440.6941	1152099.7684
39	10° 23' 42.17"	76° 5' 32.11"	619565.2497	1149296.5202
40	10° 21' 04.98"	76° 6' 32.80"	621427.7418	1144474.1461
41	10° 19' 14.52"	76° 7' 12.78"	622655.8443	1141085.5438
42	10° 18' 43.45"	76° 7' 24.05"	623001.8399	1140132.2261
43	10° 17' 53.00"	76° 7' 38.69"	623452.7141	1138583.8619
44	10° 17' 06.83"	76° 7' 51.87"	623858.6581	1137167.0480
45	10° 16' 30.64"	76° 8' 00.16"	624114.8388	1136056.4575
46	10° 15' 25.34"	76° 8' 17.64"	624653.5749	1134052.1981
47	10° 14' 29.35"	76° 8' 35.32"	625197.5996	1132334.2551
48	10° 13' 31.97"	76° 8' 53.29"	625750.9058	1130573.5588
49	10° 12' 41.28"	76° 9' 09.65"	626254.0744	1129018.2602
50	10° 12' 03.18"	76° 9' 23.15"	626669.0575	1127849.3015

CHAVAKKAD- PONNANI, THRISSUR & MALAPPURAM DISTRICTS, KERALA

Sl. No.	Latitude	Longitude	Northing	Easting
1	10° 34' 19.319" N	76° 0' 29.933" E	1168837.702	610313.353
2	10° 34' 26.180" N	76° 0' 45.080" E	1169049.933	610773.0413
3	10° 37' 13.790" N	75° 59' 24.870" E	1174190.678	608318.8837
4	10° 40' 28.570" N	75° 57' 59.440" E	1180165.646	605704.2019
5	10° 44' 26.160" N	75° 56' 18.120" E	1187454.289	602603.6633
6	10° 46' 52.310" N	75° 55' 8.950" E	1191937.266	600489.1439
7	10° 46' 46.120" N	75° 54' 58.630" E	1191746.187	600176.2807
8	10° 46' 35.103" N	75° 55' 4.027" E	1191408.267	600341.2018
9	10° 45' 22.891" N	75° 55' 31.395" E	1189192.613	601179.1281
10	10° 44' 49.184" N	75° 55' 46.514" E	1188158.599	601641.4879
11	10° 44' 0.143" N	75° 56' 6.602" E	1186654.051	602256.2226
12	10° 43' 30.290" N	75° 56' 21.550" E	1185738.438	602713.0791
13	10° 42' 50.544" N	75° 56' 39.024" E	1184519.153	603247.6548
14	10° 42' 9.727" N	75° 56' 58.127" E	1183267.136	603831.8111
15	10° 41' 9.887" N	75° 57' 22.467" E	1181431.301	604576.9542
16	10° 40' 28.297" N	75° 57' 41.808" E	1180155.579	605168.5158
17	10° 38' 35.932" N	75° 58' 33.300" E	1176708.914	606743.8476
18	10° 38' 1.291" N	75° 58' 50.158" E	1175646.44	607259.45
19	10° 36' 48.411" N	75° 59' 17.449" E	1173410.372	608095.8629
20	10° 35' 51.138" N	75° 59' 41.400" E	1171653.414	608829.3146
21	10° 34' 35.037" N	76° 0' 20.564" E	1169319.597	610027.0598

VALARPATTANAM- AZHIKKOD, KANNUR DISTRICT, KERALA

SL No.	Latitude	Longitude	Northing	Easting
1	11° 56' 44.817" N	75° 18' 11.070" E	1320576.453	532999.1881
2	11° 56' 41.451" N	75° 18' 7.808" E	1320472.96	532900.6563
3	11° 56' 39.015" N	75° 18' 6.803" E	1320398.098	532870.3246
4	11° 56' 32.771" N	75° 18' 7.756" E	1320206.336	532899.3557
5	11° 56' 32.361" N	75° 18' 7.577" E	1320193.74	532893.9519
6	11° 56' 32.086" N	75° 18' 7.577" E	1320185.283	532893.9827
7	11° 56' 28.711" N	75° 18' 6.623" E	1320081.577	532865.2173
8	11° 56' 23.963" N	75° 18' 10.192" E	1319935.855	532973.3385
9	11° 56' 20.264" N	75° 18' 12.967" E	1319822.32	533057.3779
10	11° 56' 10.788" N	75° 18' 21.060" E	1319531.546	533302.4921
11	11° 56' 3.478" N	75° 18' 28.319" E	1319307.225	533522.2972
12	11° 55' 53.177" N	75° 18' 34.861" E	1318991.039	533720.5332
13	11° 55' 48.565" N	75° 18' 40.569" E	1318849.572	533893.3167
14	11° 55' 43.453" N	75° 18' 42.828" E	1318692.626	533961.8197
15	11° 55' 26.040" N	75° 18' 51.846" E	1318158.067	534235.2161
16	11° 55' 25.422" N	75° 18' 51.964" E	1318139.091	534238.7974
17	11° 55' 23.659" N	75° 18' 52.350" E	1318084.963	534250.5349
18	11° 55' 23.625" N	75° 18' 52.896" E	1318083.936	534267.0588
19	11° 55' 23.551" N	75° 18' 54.176" E	1318081.716	534305.7569
20	11° 55' 10.820" N	75° 19' 0.769" E	1317690.868	534505.642
21	11° 55' 8.133" N	75° 19' 5.363" E	1317608.511	534644.6902
22	11° 55' 0.149" N	75° 19' 10.430" E	1317363.445	534798.2329
23	11° 54' 51.812" N	75° 19' 16.637" E	1317107.586	534986.3041
24	11° 54' 50.384" N	75° 19' 16.815" E	1317063.73	534991.7395
25	11° 54' 50.091" N	75° 19' 18.079" E	1317054.752	535029.9733
26	11° 54' 46.846" N	75° 19' 19.707" E	1316955.156	535079.3257
27	11° 54' 45.425" N	75° 19' 19.872" E	1316911.51	535084.3812
28	11° 54' 43.807" N	75° 19' 20.422" E	1316861.822	535101.0694
29	11° 54' 42.458" N	75° 19' 20.672" E	1316820.382	535108.6687
30	11° 54' 41.997" N	75° 19' 20.605" E	1316806.228	535106.6538
31	11° 54' 41.436" N	75° 19' 20.485" E	1316788.994	535103.0627
32	11° 54' 41.651" N	75° 19' 19.916" E	1316795.569	535085.8477
33	11° 54' 44.050" N	75° 19' 19.225" E	1316869.242	535064.8651
34	11° 54' 45.178" N	75° 19' 18.730" E	1316903.881	535049.8481
35	11° 54' 48.373" N	75° 19' 16.554" E	1317001.928	534983.9183
36	11° 54' 58.484" N	75° 19' 8.103" E	1317312.22	534727.9284
37	11° 55' 5.446" N	75° 19' 2.383" E	1317525.859	534554.6435
38	11° 55' 7.613" N	75° 19' 0.752" E	1317592.364	534505.24
39	11° 55' 23.657" N	75° 18' 49.571" E	1318084.801	534166.4927
40	11° 55' 29.800" N	75° 18' 46.623" E	1318273.405	534077.0889
41	11° 55' 41.690" N	75° 18' 38.926" E	1318638.36	533843.8811
42	11° 55' 45.852" N	75° 18' 35.640" E	1318766.077	533744.3513
43	11° 55' 50.702" N	75° 18' 30.998" E	1318914.906	533603.7516
44	11° 56' 3.544" N	75° 18' 22.094" E	1319309.063	533334.0222
45	11° 56' 9.073" N	75° 18' 17.867" E	1319478.757	533205.9776
46	11° 56' 17.860" N	75° 18' 10.485" E	1319748.417	532982.4166
47	11° 56' 18.408" N	75° 18' 10.052" E	1319765.223	532969.284
48	11° 56' 22.517" N	75° 18' 7.596" E	1319891.366	532894.8573
49	11° 56' 26.340" N	75° 18' 5.539" E	1320008.725	532832.508
50	11° 56' 32.086" N	75° 18' 3.710" E	1320185.16	532777.0136
51	11° 56' 35.689" N	75° 18' 1.854" E	1320295.776	532720.7461
52	11° 56' 40.331" N	75° 18' 0.555" E	1320438.308	532681.311
53	11° 56' 42.046" N	75° 18' 6.834" E	1320491.198	532871.1726
54	11° 56' 42.588" N	75° 18' 8.242" E	1320507.896	532913.7228

MINERAL BLOCK: VALARPATTANAM-NEELESWARAM AREA NORTH (I) & SOUTH-(II), KASARAGOD & KANNUR DISTRICTS, KERALA

SL No.	Latitude	Longitude	Northing	Easting	76 12° 7' 22.006" N 77 12° 7' 20.208" N	75° 9' 9.824" E 75° 9' 9.948" E	1340135.043 1340079.821	516618.3861 516622.1605	153 154	12° 2' 52.548" N 12° 2' 49.082" N	75° 10' 59.900" E 75° 11' 2.897" E	1331860.31 1331753.896	519950.9712 520041.6424
		North Area - I											
1	12° 10' 48.028" N	75° 7' 42.229" E	1346461.984	513967.832	78 12° 7' 19.443" N	75° 9' 11.144" E	1340056.363	516658.3311	155	12° 2' 48.054" N	75° 11' 4.882" E	1331722.383	520101.6937
2	12° 10' 52.047" N	75° 7' 41.111" E	1346585.409	513933.9885	79 12° 7' 13.236" N	75° 9' 14.784" E	1339865.745	516768.4662	156	12° 2' 47.835" N	75° 11' 3.945" E	1331715.638	520073.3641
3	12° 11' 5.589" N	75° 7' 35.328" E	1347001.28	513759.0471	80 12° 7' 10.184" N	75° 9' 18.868" E	1339772.068	516891.9496	157	12° 2' 47.625" N	75° 11' 3.044" E	1331709.154	520046.131
4	12° 11' 6.791" N	75° 7' 34.855" E	1347038.216	513744.7479	81 12° 7' 9.039" N	75° 9' 19.221" E	1339736.92	516902.6194	158	12° 2' 45.976" N	75° 11' 3.008" E	1331658.492	520044.9248
5	12° 11' 10.346" N	75° 7' 33.870" E	1347147.385	513714.9131	82 12° 7' 8.346" N	75° 9' 20.151" E	1339715.637	516930.7487	159	12° 2' 44.672" N	75° 11' 2.473" E	1331618.429	520028.9424
6	12° 11' 13.349" N	75° 7' 32.778" E	1347239.606	513666.781	83 12° 7' 2.206" N	75° 9' 21.781" E	1339627.078	516980.1332	160	12° 2' 43.632" N	75° 11' 3.109" E	1331586.518	520048.1747
7	12° 11' 15.150" N	75° 7' 19.780" E	1348216.254	513288.6779	84 12° 6' 59.586" N	75° 9' 24.476" E	1339446.644	517061.6251	161	12° 2' 39.354" N	75° 11' 4.876" E	1331455.153	520101.6937
8	12° 12' 19.030" N	75° 7' 33.910" E	1349257.129	513715.1558	85 12° 6' 56.622" N	75° 9' 25.104" E	1339355.627	517080.6751	162	12° 2' 38.123" N	75° 11' 5.339" E	1331417.345	520115.7259
9	12° 12' 16.575" N	75° 7' 34.856" E	1349181.729	513743.765	86 12° 6' 55.038" N	75° 9' 23.913" E	1339306.944	517044.6917	163	12° 2' 38.240" N	75° 11' 6.716" E	1331420.964	520157.349
10	12° 11' 57.710" N	75° 7' 37.578" E	1348602.304	513826.2936	87 12° 6' 51.868" N	75° 9' 24.401" E	1339209.577	517059.5084	164	12° 2' 37.571" N	75° 11' 6.844" E	1331400.412	520161.2343
11	12° 11' 55.718" N	75° 7' 37.518" E	1348541.104	513824.5197	88 12° 6' 44.633" N	75° 9' 24.187" E	1338987.327	517053.1584	165	12° 2' 37.390" N	75° 11' 8.120" E	1331394.88	520199.8084
12	12° 11' 49.933" N	75° 7' 36.830" E	1348363.413	513803.8132	89 12° 6' 37.672" N	75° 9' 25.023" E	1338773.543	517078.5584	166	12° 2' 35.520" N	75° 11' 3.180" E	1331337.34	520050.4915
13	12° 11' 45.823" N	75° 7' 37.222" E	1348237.179	513815.7103	90 12° 6' 29.057" N	75° 9' 28.519" E	1338508.959	517184.392	167	12° 2' 35.389" N	75° 11' 2.517" E	1331333.302	520030.4571
14	12° 11' 40.974" N	75° 7' 39.348" E	1348088.245	513880.0134	91 12° 6' 23.611" N	75° 9' 31.597" E	1338341.742	517277.5255	168	12° 2' 34.624" N	75° 10' 31.566" E	1333509.24	519093.3011
15	12° 11' 27.670" N	75° 7' 48.413" E	1347679.728	514154.1223	92 12° 6' 19.681" N	75° 9' 34.606" E	1338221.092	517368.5424	169	12° 2' 30.449" N	75° 10' 12.865" E	1334866.555	518527.0916
16	12° 11' 26.067" N	75° 7' 48.468" E	1347630.478	514155.83	93 12° 6' 15.613" N	75° 9' 39.225" E	1338096.208	517508.2426	170	12° 2' 5' 8.617" N	75° 9' 57.572" E	1336038.661	518064.0598
17	12° 11' 23.742" N	75° 7' 48.761" E	1347559.078	514164.7056	94 12° 6' 13.347" N	75° 9' 41.422" E	1338026.657	517574.2598	171	12° 2' 4' 0.067" N	75° 9' 35.977" E	1337741.512	517410.6598
18	12° 11' 23.156" N	75° 7' 49.601" E	1347541.086	514190.1057	95 12° 6' 11.141" N	75° 9' 42.611" E	1337958.917	517610.6459	172	12° 2' 48.470" N	75° 8' 54.290" E	1340947.68	516148.4264
19	12° 11' 23.077" N	75° 7' 50.170" E	1347538.677	514207.2944	96 12° 6' 9.486" N	75° 9' 44.500" E	1337908.117	517667.796	173	12° 2' 22.820" N	75° 8' 15.710" E	134845.171	514980.914
20	12° 11' 16.875" N	75° 7' 50.692" E	1347348.177	514223.1694	97 12° 6' 9.290" N	75° 9' 45.355" E	1337902.094	517693.6188	174	12° 10' 2.704" N	75° 8' 0.039" E	1345070.036	514506.7352
21	12° 11' 10.845" N	75° 7' 50.865" E	1347162.968	514228.4611	98 12° 6' 8.207" N	75° 9' 46.211" E	1337874.992	517719.5226	175	12° 10' 7.609" N	75° 7' 58.552" E	1345220.685	514461.701
22	12° 10' 59.818" N	75° 7' 55.237" E	1346824.301	514360.753	99 12° 6' 6.074" N	75° 9' 47.474" E	1337803.341	517757.7545	176	12° 10' 11.857" N	75° 7' 56.443" E	1345351.118	514397.8965
23	12° 10' 55.293" N	75° 7' 57.500" E	1346685.356	514429.2037	100 12° 6' 4.271" N	75° 9' 50.220" E	1337748.013	517840.7982					
24	12° 10' 52.764" N	75° 7' 59.147" E	1346546.251	514479.0313	101 12° 6' 3.983" N	75° 9' 50.377" E	1337739.177	517840.0185	1	11° 58' 11.197" N	75° 16' 41.654" E	1323226.902	1323226.902
25	12° 10' 45.904" N	75° 8' 1.631" E	1346397.025	514554.1731	102 12° 6' 3.178" N	75° 9' 50.028" E	1337714.441	517835.013	2	11° 58' 31.897" N	75° 16' 27.961" E	1323862.308	1323862.308
26	12° 10' 44.675" N	75° 8' 2.811" E	1346359.278	514589.8452	103 12° 6' 8.029" N	75° 9' 51.628" E	1337642.31	517883.4047	3	11° 58' 46.843" N	75° 16' 17.580" E	1324321.079	1324321.079
27	12° 10' 36.383" N	75° 8' 6.952" E	1346104.633	514715.2954	104 12° 5' 56.585" N	75° 9' 54.059" E	1337512.007	517956.9769	4	11° 58' 51.020" N	75° 16' 14.362" E	1324449.297	1324449.297
28	12° 10' 34.325" N	75° 8' 7.474" E	1346041.425	514730.9151	105 12° 5' 53.575" N	75° 9' 54.358" E	1337419.566	517966.0773	5	11° 58' 55.645" N	75° 16' 10.798" E	1324591.247	1324591.247
29	12° 10' 33.209" N	75° 8' 8.569" E	1346007.178	514764.0226	106 12° 5' 52.529" N	75° 9' 53.978" E	1337387.416	517954.6049	6	11° 58' 57.704" N	75° 16' 9.482" E	1324654.439	1324654.439
30	12° 10' 29.145" N	75° 8' 10.632" E	1345882.382	514826.4206	107 12° 5' 50.719" N	75° 9' 54.642" E	1337331.845	517974.7131	7	11° 59' 4.134" N	75° 16' 5.026" E	1324851.818	1324851.818
31	12° 10' 25.357" N	75° 8' 13.783" E	1345765.965	514715.2954	108 12° 5' 48.153" N	75° 9' 54.291" E	1337253.007	517964.1299	8	11° 59' 8.478" N	75° 16' 1.758" E	1324885.169	1324885.169
32	12° 10' 16.914" N	75° 8' 9.925" E	1345506.673	514805.2539	109 12° 5' 47.236" N	75° 9' 54.989" E	1337224.844	517985.2468	9	11° 59' 13.978" N	75° 15' 57.267" E	1325153.973	1325153.973
33	12° 9' 54.663" N	75° 8' 28.565" E	1344823.492	515368.8987	110 12° 5' 43.285" N	75° 9' 55.381" E	1337103.49	517997.1936	10	11° 59' 19.995" N	75° 15' 52.495" E	1325338.653	1325338.653
34	12° 9' 53.175" N	75° 8' 30.845" E	1344777.772	515376.4997	111 12° 5' 27.917" N	75° 9' 57.193" E	1336631.472	518052.2271	11	11° 59' 26.994" N	75° 15' 47.121" E	1325553.495	1325553.495
35	12° 9' 52.076" N	75° 8' 30.504" E	1344744.038	515427.5512	112 12° 5' 16.959" N	75° 9' 59.006" E	1336294.921	518107.2605	12	11° 59' 32.149" N	75° 15' 42.830" E	1325711.716	1325711.716
36	12° 9' 50.280" N	75° 8' 30.460" E	1344688.872	515426.2415	113 12° 5' 12.555" N	75° 10' 0.917" E	1336159.695	518165.0932	13	11° 59' 38.184" N	75° 15' 38.024" E	1325896.925	1325896.925
37	12° 9' 49.750" N	75° 8' 31.400" E	1344672.612	515454.6523	114 12° 5' 11.007" N	75° 10' 0.920" E	1336112.121	518165.2136	14	11° 59' 40.114" N	75° 15' 36.591" E	1325956.191	1325956.191
38	12° 9' 48.457" N	75° 8' 31.783" E	1344632.9	515466.258	115 12° 5' 7.962" N	75° 10' 2.910" E	1336018.632	518225.4221	15	11° 59' 48.372" N	75° 15' 30.071" E	1326209.663	1326209.663
39	12° 9' 47.213" N	75° 8' 31.229" E	1344594.68	515449.5249	116 12° 5' 5.999" N	75° 10' 3.761" E	1335958.371	518251.1941	16	11° 59' 52.941" N	75° 15' 26.593" E	1326349.892	1326349.892
40	12° 9' 36.764" N	75° 8' 29.691" E	1344273.712	515403.2134	117 12° 4' 52.073" N	75° 10' 13.975" E	1335530.803	518560.2281	17	11° 59' 57.044" N	75° 15' 23.255" E	1326475.834	1326475.834
41	12° 9' 25.856" N	75° 8' 30.845" E	1344398.664	515438.2766	118 12° 4' 49.660" N	75° 10' 16.424" E	1335456.72	518634.3116	18	12° 0' 0.509" N	75° 15' 20.563" E	1326582.197	1326582.197
42	12° 9' 22.061" N	75° 8' 30.515" E	1343822.095	515428.3582	119 12° 4' 46.213" N	75° 10' 19.153" E	1335350.886	518716.8617	19	12° 0' 4.061" N	75° 15' 18.064" E	1326691.205	1326691.205
43	12° 9' 18.960" N	75° 8' 31.634" E	1343726.845	515462.2249	120 12° 4' 40.975" N	75° 10' 20.900" E	1335190.019	518769.7785	20	12° 0' 12.421" N	75° 15' 10.471" E	1326947.7	1326947.7
44	12° 9' 16.203" N	75° 8' 32.438" E	1343642.178	515486.5666	121 12° 4' 36.425" N	75° 10' 23.908" E	1335050.319	518860.7953	21	12° 0' 17.715" N	75° 15' 6.894" E	1327110.306	1327110.306
45	12° 9' 15.514" N	75° 8' 32.683" E	1343621.011	515493.975	122 12° 4' 35.592" N	75° 10' 25.366" E	1335024.774	518904.8772	22	12° 0' 34.938" N	75° 14' 50.655" E	1327638.884	1327638.884
46	12° 9' 13.448" N	75° 8' 33.931" E	1343557.582	515531.726	123 12° 4' 30.330" N	75° 10' 27.470" E	1334863.183	518968.5959	23	12° 1' 17.580" N	75° 14' 3.710" E	1328947.461	1328947.461
47	12° 9' 10.777" N	75° 8' 34.928" E	1343460.204	515561.8996	124 12° 4' 28.792" N	75° 10' 27.957" E	1334815.959	518983.3387	24	12° 1' 17.150" N	75° 13' 59.270" E	1328934.139	1328934.139
48	12° 9' 6.932" N	75° 8' 36.811" E	1343357.486	515618.8585	125 12° 4' 27.641" N	75° 10' 27.915" E	1334780.594	518982.116	25	12° 1' 20.840" N	75° 13' 56.620" E	1329047.415	1329047.415
49	12° 9' 5.179" N	75° 8' 36.870" E	1343303.643	515620.6765	126 12° 4' 22.995" N	75° 10' 27.112" E	1334637.86	518957.9069	26	12° 1' 20.400" N	75° 13' 49.910" E	1329033.729	1329033.729
50	12° 9' 0.280" N	75° 8' 38.777" E	1343153.17	515678.392	127 12° 4' 19.756" N	75° 10' 27.633" E	1334538.378	518973.7424	27	12° 1' 25.750" N	75° 13' 57.80		

MINERAL BLOCK: VATTAKAYAL LAKE BED, KOLLAM DISTRICT,KERALA

SI No.	Latitude	Longitude	Northing	Easting					
1	9° 1' 8.314" N	76° 31' 12.617" E	997297.6866	667098.1369	59	9° 1' 35.707" N	76° 31' 48.866" E	998143.8362	668201.6949
2	9° 1' 9.174" N	76° 31' 12.562" E	997324.1025	667096.3679	60	9° 1' 36.150" N	76° 31' 48.985" E	998157.4623	668205.2668
3	9° 1' 12.174" N	76° 31' 12.373" E	997416.2202	667090.1994	61	9° 1' 36.164" N	76° 31' 49.739" E	998157.9914	668228.2856
4	9° 1' 12.904" N	76° 31' 12.651" E	997438.7	667098.5947	62	9° 1' 36.240" N	76° 31' 50.034" E	998160.3727	668237.2814
5	9° 1' 13.460" N	76° 31' 12.862" E	997455.7997	667104.9808	63	9° 1' 36.140" N	76° 31' 50.328" E	998157.33	668246.2773
6	9° 1' 13.730" N	76° 31' 13.500" E	997464.1781	667124.4244	64	9° 1' 36.511" N	76° 31' 51.218" E	998168.8394	668273.3971
7	9° 1' 17.839" N	76° 31' 12.304" E	997590.2562	667087.3879	65	9° 1' 37.033" N	76° 31' 51.122" E	998184.8798	668270.4095
8	9° 1' 20.701" N	76° 31' 11.472" E	997678.0741	667061.5907	66	9° 1' 37.175" N	76° 31' 50.881" E	998189.1867	668263.0322
9	9° 1' 23.623" N	76° 31' 10.622" E	997767.7324	667035.253	67	9° 1' 37.610" N	76° 31' 50.686" E	998202.5347	668257.0145
10	9° 1' 24.790" N	76° 31' 12.800" E	997803.8604	667101.6322	68	9° 1' 39.540" N	76° 31' 53.066" E	998262.1309	668329.4506
11	9° 1' 22.620" N	76° 31' 13.990" E	997737.3477	667138.2523	69	9° 1' 40.480" N	76° 31' 52.556" E	998290.9431	668313.7541
12	9° 1' 23.200" N	76° 31' 15.400" E	997755.345	667181.2396	70	9° 1' 41.700" N	76° 31' 52.066" E	998328.3599	668298.6325
13	9° 1' 23.270" N	76° 31' 16.360" E	997757.6176	667210.549	71	9° 1' 42.810" N	76° 31' 52.796" E	998362.5536	668320.7834
14	9° 1' 21.660" N	76° 31' 16.900" E	997708.2259	667227.2467	72	9° 1' 42.760" N	76° 31' 53.796" E	998361.1456	668351.3296
15	9° 1' 21.660" N	76° 31' 20.600" E	997708.6967	667340.2449	73	9° 1' 42.200" N	76° 31' 54.216" E	998343.9958	668364.2284
16	9° 1' 22.660" N	76° 31' 19.930" E	997739.3321	667319.6551	74	9° 1' 41.820" N	76° 31' 56.656" E	998332.6346	668438.7944
17	9° 1' 23.380" N	76° 31' 21.530" E	997761.6548	667368.4269	75	9° 1' 40.830" N	76° 31' 56.866" E	998302.2478	668445.3354
18	9° 1' 27.410" N	76° 31' 21.860" E	997885.5014	667377.989	76	9° 1' 40.820" N	76° 31' 57.476" E	998302.0188	668463.966
19	9° 1' 29.390" N	76° 31' 22.350" E	997946.391	667392.6999	77	9° 1' 40.680" N	76° 31' 58.676" E	998297.8718	668500.6317
20	9° 1' 30.390" N	76° 31' 22.300" E	997977.1054	667391.0448	78	9° 1' 40.630" N	76° 32' 0.466" E	998296.5653	668555.3044
21	9° 1' 30.750" N	76° 31' 22.400" E	997988.1776	667394.0526	79	9° 1' 39.500" N	76° 32' 0.066" E	998261.7994	668543.2343
22	9° 1' 32.031" N	76° 31' 22.934" E	998027.5967	667410.2014	80	9° 1' 39.660" N	76° 32' 5.606" E	998267.4257	668712.4042
23	9° 1' 32.764" N	76° 31' 22.918" E	998050.1153	667409.6031	81	9° 1' 39.770" N	76° 32' 9.526" E	998271.3086	668832.1062
24	9° 1' 34.009" N	76° 31' 23.430" E	998088.4236	667425.0911	82	9° 1' 40.064" N	76° 32' 11.150" E	998280.5447	668881.6794
25	9° 1' 34.119" N	76° 31' 23.430" E	998091.805	667425.077	83	9° 1' 36.850" N	76° 32' 13.246" E	998182.0815	668946.0921
26	9° 1' 34.428" N	76° 31' 23.826" E	998101.3387	667437.1198	84	9° 1' 33.600" N	76° 32' 12.346" E	998082.1227	668919.0264
27	9° 1' 35.792" N	76° 31' 24.213" E	998143.2874	667448.7608	85	9° 1' 30.960" N	76° 32' 10.856" E	998000.8279	668873.863
28	9° 1' 35.840" N	76° 31' 24.230" E	998144.7794	667449.2882	86	9° 1' 28.800" N	76° 32' 8.086" E	997934.1148	668789.5462
29	9° 1' 35.872" N	76° 31' 24.282" E	998145.761	667450.8763	87	9° 1' 29.360" N	76° 32' 6.236" E	997951.081	668732.9747
30	9° 1' 35.990" N	76° 31' 25.656" E	998149.5692	667492.8118	88	9° 1' 19.410" N	76° 32' 1.956" E	997644.8587	668603.547
31	9° 1' 35.883" N	76° 31' 26.766" E	998146.4168	667526.733	89	9° 1' 18.600" N	76° 32' 2.406" E	997620.0324	668617.3946
32	9° 1' 35.564" N	76° 31' 27.150" E	998136.6871	667538.5084	90	9° 1' 13.410" N	76° 32' 0.166" E	997460.3037	668549.6536
33	9° 1' 35.485" N	76° 31' 27.989" E	998134.3588	667564.1201	91	9° 1' 9.680" N	76° 31' 57.776" E	997345.4085	668477.1427
34	9° 1' 35.479" N	76° 31' 29.416" E	998134.3588	667607.7235	92	9° 1' 9.940" N	76° 31' 56.966" E	997353.2922	668452.3714
35	9° 1' 35.530" N	76° 31' 30.466" E	998136.051	667639.7671	93	9° 1' 3.190" N	76° 31' 51.936" E	997145.2823	668299.6216
36	9° 1' 35.712" N	76° 31' 31.365" E	998141.7671	667667.202	94	9° 1' 0.120" N	76° 31' 48.766" E	997050.5638	668203.2027
37	9° 1' 36.142" N	76° 31' 31.917" E	998155.0493	667684.0074	95	9° 0' 56.960" N	76° 31' 46.216" E	996953.16	668125.7302
38	9° 1' 36.656" N	76° 31' 32.122" E	998170.8486	667690.1914	96	9° 0' 52.840" N	76° 31' 45.366" E	996826.4816	668100.3
39	9° 1' 36.935" N	76° 31' 32.807" E	998179.5218	667711.0827	97	9° 0' 51.810" N	76° 31' 44.406" E	996794.7165	668071.1131
40	9° 1' 37.810" N	76° 31' 33.989" E	998206.5568	667747.0846	98	9° 0' 52.150" N	76° 31' 43.796" E	996805.0836	668052.4395
41	9° 1' 38.510" N	76° 31' 34.826" E	998228.1555	667772.5379	99	9° 0' 53.360" N	76° 31' 42.956" E	996842.1486	668026.6298
42	9° 1' 37.840" N	76° 31' 36.116" E	998207.7373	667812.0202	100	9° 1' 2.230" N	76° 31' 40.406" E	997114.3167	667947.6117
43	9° 1' 37.104" N	76° 31' 37.671" E	998185.3289	667859.611	101	9° 1' 4.297" N	76° 31' 38.647" E	997177.5867	667893.6318
44	9° 1' 36.808" N	76° 31' 37.703" E	998176.2477	667860.6286	102	9° 1' 2.690" N	76° 31' 35.840" E	997127.8655	667808.1112
45	9° 1' 36.649" N	76° 31' 37.896" E	998171.3794	667866.5553	103	9° 1' 2.590" N	76° 31' 32.120" E	997124.319	667694.5131
46	9° 1' 36.703" N	76° 31' 38.146" E	998173.0727	667874.1753	104	9° 1' 1.230" N	76° 31' 31.540" E	997082.4648	667676.9739
47	9° 1' 36.589" N	76° 31' 39.095" E	998169.686	667903.1737	105	9° 1' 0.020" N	76° 31' 30.470" E	997045.1563	667644.4506
48	9° 1' 36.422" N	76° 31' 39.524" E	998164.606	667916.2971	106	9° 0' 58.440" N	76° 31' 30.770" E	996996.6557	667653.8153
49	9° 1' 36.045" N	76° 31' 42.763" E	998153.4491	668015.2683	107	9° 0' 58.996" N	76° 31' 29.926" E	997013.64	667627.974
50	9° 1' 35.788" N	76° 31' 42.841" E	998145.556	668017.6856	108	9° 1' 4.030" N	76° 31' 26.877" E	997167.8782	667534.2098
51	9° 1' 35.766" N	76° 31' 43.243" E	998144.921	668029.9623	109	9° 1' 5.208" N	76° 31' 21.131" E	997203.3597	667358.5566
52	9° 1' 35.687" N	76° 31' 43.950" E	998142.5926	668051.5524	110	9° 1' 5.286" N	76° 31' 20.936" E	997205.7099	667352.6086
53	9° 1' 36.300" N	76° 31' 44.066" E	998161.4432	668055.0095	111	9° 1' 5.605" N	76° 31' 20.132" E	997215.4295	667328.0087
54	9° 1' 35.780" N	76° 31' 46.348" E	998145.7604	668124.79	112	9° 1' 5.496" N	76° 31' 16.762" E	997211.6341	667225.1068
55	9° 1' 35.303" N	76° 31' 46.538" E	998131.1362	668130.6541	113	9° 1' 5.584" N	76° 31' 13.558" E	997213.9232	667127.2309
56	9° 1' 35.306" N	76° 31' 46.829" E	998131.2684	668139.5177	114	9° 1' 5.831" N	76° 31' 13.247" E	997221.4865	667117.7161
57	9° 1' 35.893" N	76° 31' 46.889" E	998149.2901	668141.2675	115	9° 1' 7.054" N	76° 31' 12.937" E	997259.0097	667108.0747
58	9° 1' 35.962" N	76° 31' 46.977" E	998151.4389	668143.9662	116	9° 1' 8.314" N	76° 31' 12.617" E	997297.6866	667098.1369

KAYAMKULAM LAKE BED

SL No.	Latitude	Longitude	Northing	Easting
1	9° 8' 1.832" N	76° 28' 36.851" E	1009981.526	662289.3847
2	9° 8' 1.367" N	76° 28' 34.650" E	1009966.97	662222.2353
3	9° 8' 1.282" N	76° 28' 31.190" E	1009963.93	662116.6205
4	9° 8' 0.099" N	76° 28' 25.418" E	1009926.865	661940.5332
5	9° 7' 51.540" N	76° 28' 27.740" E	1009664.23	662012.5098
6	9° 7' 49.010" N	76° 28' 28.600" E	1009586.615	662039.0834
7	9° 7' 48.296" N	76° 28' 24.069" E	1009564.102	661900.8328
8	9° 7' 45.268" N	76° 28' 24.975" E	1009471.2	661928.8789
9	9° 7' 43.829" N	76° 28' 24.692" E	1009426.955	661920.429
10	9° 7' 38.663" N	76° 28' 24.795" E	1009268.287	661924.2149
11	9° 7' 37.070" N	76° 28' 24.520" E	1009219.307	661916.0166
12	9° 7' 35.519" N	76° 28' 25.111" E	1009171.742	661934.243
13	9° 7' 32.409" N	76° 28' 17.820" E	1009075.292	661712.052
14	9° 7' 33.128" N	76° 28' 17.458" E	1009097.326	661700.9175
15	9° 7' 33.568" N	76° 28' 16.897" E	1009110.766	661683.7277
16	9° 7' 33.981" N	76° 28' 16.059" E	1009123.348	661658.0832
17	9° 7' 34.445" N	76° 28' 16.172" E	1009137.638	661661.4687
18	9° 7' 34.973" N	76° 28' 16.574" E	1009153.891	661673.6874
19	9° 7' 35.597" N	76° 28' 17.631" E	1009173.208	661705.862
20	9° 7' 35.955" N	76° 28' 18.675" E	1009184.336	661737.6913
21	9° 7' 38.056" N	76° 28' 18.391" E	1009248.822	661728.7652
22	9° 7' 40.421" N	76° 28' 17.748" E	1009321.415	661708.8557
23	9° 7' 43.434" N	76° 28' 16.637" E	1009413.822	661674.5472
24	9° 7' 52.197" N	76° 28' 12.945" E	1009682.584	661560.7306
25	9° 7' 52.836" N	76° 28' 10.149" E	1009701.858	661475.2982
26	9° 7' 52.890" N	76° 28' 8.526" E	1009703.299	661425.7182
27	9° 7' 52.741" N	76° 28' 7.262" E	1009698.58	661387.1514
28	9° 7' 52.352" N	76° 28' 5.874" E	1009686.443	661344.8481
29	9° 7' 51.255" N	76° 28' 2.939" E	1009652.385	661255.3632
30	9° 7' 51.033" N	76° 28' 1.503" E	1009645.4	661211.5636
31	9° 7' 57.042" N	76° 28' 1.045" E	1009829.936	661196.8059
32	9° 7' 59.210" N	76° 28' 0.793" E	1009896.494	661188.8457
33	9° 8' 1.538" N	76° 28' 2.622" E	1009968.259	661244.4006
34	9° 8' 3.072" N	76° 28' 3.208" E	1010015.457	661262.1115
35	9° 8' 4.851" N	76° 28' 3.124" E	1010070.085	661259.3142
36	9° 8' 6.722" N	76° 28' 2.958" E	1010127.555	661254.028
37	9° 8' 7.824" N	76° 28' 2.661" E	1010161.356	661244.8044
38	9° 8' 9.283" N	76° 28' 1.790" E	1010206.058	661218.0429
39	9° 8' 9.962" N	76° 28' 0.619" E	1010226.774	661182.2016
40	9° 8' 10.346" N	76° 27' 59.895" E	1010238.492	661160.0577
41	9° 8' 10.844" N	76° 27' 59.571" E	1010253.737	661150.0923
42	9° 8' 10.738" N	76° 27' 58.840" E	1010250.404	661127.7839
43	9° 8' 10.091" N	76° 27' 57.769" E	1010230.399	661095.1593
44	9° 8' 8.690" N	76° 27' 56.685" E	1010187.227	661062.2533
45	9° 8' 7.915" N	76° 27' 56.225" E	1010163.341	661048.3005
46	9° 8' 6.611" N	76° 27' 55.643" E	1010123.222	661030.6942
47	9° 8' 5.836" N	76° 27' 53.817" E	1010099.184	660975.0478
48	9° 8' 18.308" N	76° 27' 48.681" E	1010481.705	660816.6935
49	9° 8' 30.720" N	76° 28' 19.234" E	1010866.775	661747.9158
50	9° 8' 24.611" N	76° 28' 21.748" E	1010679.439	661825.4308
51	9° 8' 29.453" N	76° 28' 33.588" E	1010829.651	662186.2788
52	9° 8' 23.475" N	76° 28' 36.047" E	1010646.306	662262.1107
53	9° 8' 33.588" N	76° 28' 59.439" E	1010959.925	662974.9937
54	9° 8' 27.360" N	76° 29' 1.928" E	1010768.922	663051.7603
55	9° 8' 17.210" N	76° 28' 38.668" E	1010454.187	662342.9056
56	9° 7' 32.245" N	76° 28' 57.272" E	1009075.163	662916.579
57	9° 7' 30.960" N	76° 28' 51.700" E	1009035	662746.6092
58	9° 7' 36.540" N	76° 28' 49.460" E	1009206.139	662677.5175
59	9° 7' 35.790" N	76° 28' 46.870" E	1009182.775	662598.5374
60	9° 7' 47.775" N	76° 28' 42.155" E	1009550.374	662453.085
61	9° 7' 54.100" N	76° 28' 41.130" E	1009744.546	662420.9884
62	9° 7' 54.022" N	76° 28' 40.721" E	1009742.094	662408.5185
63	9° 8' 1.860" N	76° 28' 37.912" E	1009982.548	662321.7718

M. K.
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