



Petroleum Resources Development Secretariat

Call for Expressions of Interest (EOI)

From Geophysical Exploration companies to conduct Scalar Gravity / Full Tensor Gradiometry (FTG) and Magnetic surveys over the offshore Mannar and Cauvery basins of Sri Lanka

The Petroleum Resources Development Secretariat (PRDS) is tasked with the regulation and administration of the upstream petroleum industry in Sri Lanka, and functions under the Ministry of Petroleum Resources Development.

In order to enhance investment in these activities, the PRDS has set up a comprehensive database of relevant geophysical information. With the intention of further strengthening this database, the PRDS wishes to call for Expressions of Interest (EOIs) from competent and experienced geophysical exploration companies to carry out Gravity / Full Tensor Gradiometry and Magnetic surveys (including data acquisition, processing and interpretation) over the Mannar and Cauvery basins offshore Sri Lanka, utilizing state-of-the-art equipment on a multi-client basis in partnership with the PRDS. The bidders should indicate their ability to offer both airborne and marine acquisition capability in the event that a specific method yields better results for a particular measurement.

All surveys shall be carried in conformance with the Geophysical, Geological, Environmental and Geotechnical Guide Lines of the PRDS, revised in 2012.

Interested Geophysical Prospecting companies are requested to submit their EOI to;

The Director General,
Petroleum Resources Development Secretariat,
Level 06, Ceylinco House, No: 69, Janadhipathi Mawatha
Colombo 1, Sri Lanka

not later than 4.00 pm on the 16th June 2016. These EOIs should contain all the information requested in the Form of Proposal below. The original and copy of the EOI should be sealed and marked as “EOI for Gravity and Magnetic Geophysical Surveys, Original” and “EOI for Gravity and Magnetic Geophysical Surveys, Copy”.

A short-listed group of Geophysical Prospecting companies submitted Proposals may then be invited to make a presentation to the PRDS officials to provide more details of their business model along with the technical merits of the methodology and equipment proposed.

The PRDS will select a suitable Geophysical Prospecting company based on demonstrable experience in the technologies to be provided, and may call for further clarification in this regard from bidders.

Once a suitable Geophysical Prospecting company is selected, the PRDS will enter into a formal legal agreement with that company. A model agreement prepared by PRDS for this purpose will be made available to all bidders at their request.

The area over which the surveys will be carried out has been given in the attached maps. Survey boundaries have been demarcated using WGS 84 Coordinates. The first map illustrates the larger area of the whole Mannar basin, and covers all future deepwater blocks as well. The second map illustrates the minimum survey area, covering the blocks to be offered in the proposed 2017 bid round. Companies may propose for the smaller area as a minimum, with an option for the whole area if they wish.

For technical reasons, it is desirable to acquire both scalar gravity and full tensor gradiometry such that the combined signal from both techniques offers the broadest response bandwidth. Survey design should accordingly take into account water depth and any relevant geological factors. The selected Geophysical Prospecting company is expected to advise on this matter, and also should suggest suitable spacing of main and tie lines for the survey.

The company should also carry out the interpretation of gravity/gravity gradiometry data and magnetic data. Quantitative modeling should include 3D forward modeling of the acquired data integrated with seismic and other geological/geophysical datasets. The objective of this is to translate all available data into a meaningful geological model to facilitate the exploration process.

Bidders are expected to outline what knowledge transfer initiatives they propose in the Local Content section of the Form of Proposal below.

Form of Proposal

All participating companies are expected to provide the following information in order that their proposals may be properly compared;

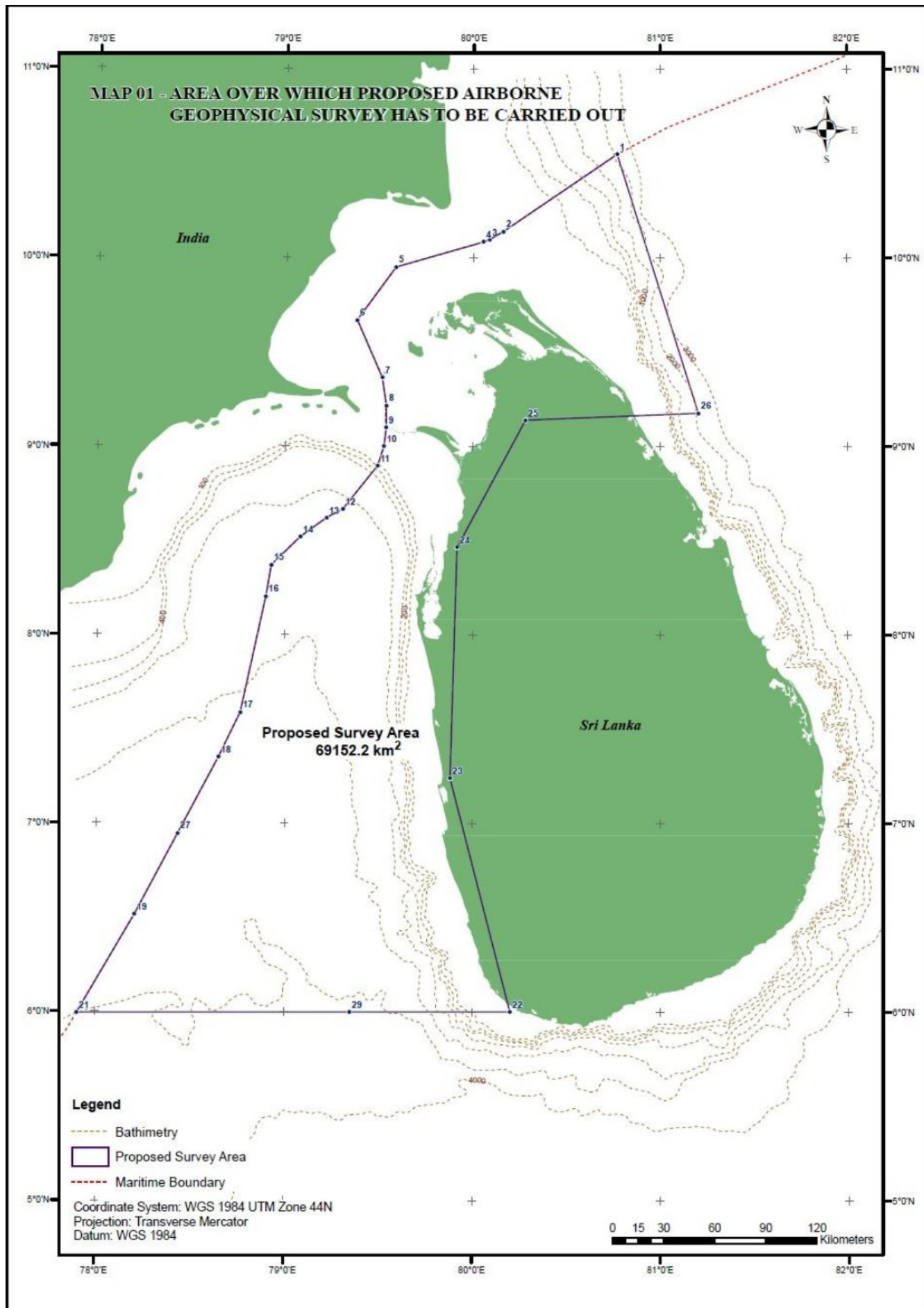
1. Copies of documents defining their constitution or legal status, including details of any relevant litigation involved in at present
2. Details of their experience in conducting similar surveys within the past 5 years, including those under planning for the near future
3. A time schedule for the survey including the approximate date of mobilisation
4. Details of the vessel and aircraft (model and type) that is proposed, together with underlying cabin equipment facilities and passenger capacity
5. List of personnel involved in conducting the survey along with their qualifications and experience
6. A list of marine and airborne equipment with details of their precision and resolution where applicable (eg. Airborne Gravity Gradiometer system, Gravimeters, High sensitivity magnetometer with compensation for noise generated by platform movement, magnetometers at ground station for diurnal corrections, GPS, radar altimeter, barometric altimeter, GPS Positioning/Navigation equipment including dual frequency GPS,LIDAR terrain mapping system if necessary, seep detectors etc.) that they proposed to utilise for the survey
7. Details of calibrations and other checks that will be carried out prior to the initiation of the survey

8. Details of planned data quality control procedures (eg. pre-acquisition studies, daily field data control studies, a statement on required specifications and how data recording have been carried out as per required specification, noise estimates (with direction) in support of data accuracy, uncertainties related to Positioning, Navigation Time Mapping, etc.)
9. A list of deliverables (eg. digital maps in the relevant format, survey reports, interpretation products, etc.)
10. A complete description of the proposed business model, including the length of exclusivity periods requested and any other specific conditions of contract. A model agreement prepared for this purpose by the PRDS will be made available to the bidders at their request. Preference will be given for those who comply with the legal & fiscal terms and other conditions specified in this model agreement.
11. An estimate of the total cost of the surveys along with their proposed pricing structure.
12. A description and estimate of the Local Content development of the services to be provided.

All requests for clarifications must be made in writing not later than seven (07) working days before the submission deadline and should be mailed to the Director General at dg@prds.lk.

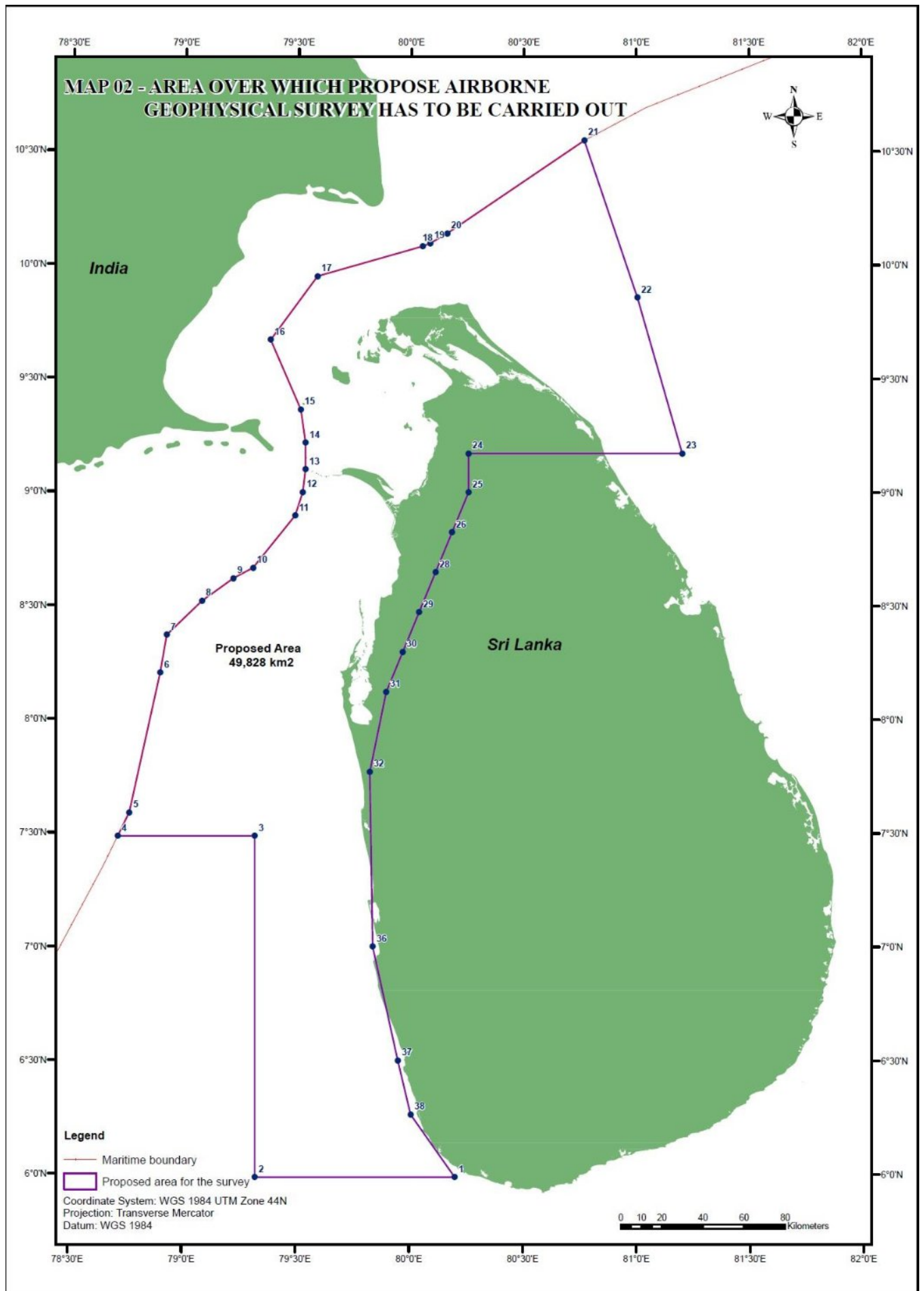
By submitting an EOI, bidders acknowledge that the PRDS is not obliged to accept any or all proposals it receives, and reserves the right to discontinue the procurement process at any point before the award of the contract without incurring any liability towards any bidder.

The Director General,
Petroleum Resources Development Secretariat,
Level 06, Ceylinco House, No: 69, Janadhipathi Mawatha
Colombo 1, Sri Lanka



Coordinates of The Proposed Area - Map 01

Point	Latitude	Longitude	X Coordinate	Y Coordinate
1	10.550110	80.768669	474690.91	1166245.00
2	10.140140	80.160408	408021.31	1121025.00
3	10.096810	80.085419	399791.81	1116256.00
4	10.083470	80.052094	396135.41	1114792.00
5	9.950147	79.585480	344936.41	1100231.00
6	9.669331	79.378838	322128.81	1069276.00
7	9.363518	79.513817	336797.31	1035387.00
8	9.216860	79.535492	339110.00	1019157.00
9	9.100202	79.535492	339057.59	1006256.00
10	9.000208	79.523827	337730.59	995202.19
11	8.896880	79.490494	334019.19	983789.81
12	8.666894	79.305519	313559.41	958440.81
13	8.620230	79.218857	303997.81	953323.00
14	8.520236	79.080544	288716.50	942335.88
15	8.370244	78.925568	271561.81	925831.38
16	8.203588	78.897232	268343.31	907411.69
17	7.588626	78.763924	253284.41	839456.31
18	7.350307	78.648933	240450.09	813155.88
19	6.513690	78.205658	190933.50	720844.88
20	5.993808	77.902733	157059.09	663488.81
21	6.001988	80.201187	411594.50	663488.81
22	7.240040	79.881241	376488.50	800436.63
23	8.463936	79.915451	380616.00	935753.63
24	9.139610	80.279472	420832.69	1010366.00
25	9.177104	81.203262	522330.31	1014439.00
26	6.945847	78.434486	216512.50	768530.31
27	6.000083	79.349747	317342.81	663488.81



Coordinates of The Proposed Area - Map 02

Point	Latitude	Longitude	X Coordinate	Y Coordinate
1	5.988529	80.201218	411594.50	662000.81
2	5.986546	79.322578	314330.31	662000.81
3	7.487542	79.317413	314330.31	828000.81
4	7.484822	78.713829	247694.30	828000.81
5	7.588626	78.763924	253284.41	839456.31
6	8.203588	78.897232	268343.31	907411.69
7	8.370244	78.925568	271561.81	925831.38
8	8.520236	79.080544	288716.50	942335.88
9	8.620230	79.218857	303997.81	953323.00
10	8.666894	79.305519	313559.41	958440.81
11	8.896880	79.490494	334019.19	983789.81
12	9.000208	79.523827	337730.59	995202.19
13	9.100202	79.535492	339057.59	1006256.00
14	9.216860	79.535492	339110.00	1019157.00
15	9.363518	79.513817	336797.31	1035387.00
16	9.669331	79.378838	322128.81	1069276.00
17	9.950147	79.585480	344936.41	1100231.00
18	10.083470	80.052094	396135.41	1114792.00
19	10.096810	80.085419	399791.81	1116256.00
20	10.140140	80.160408	408021.31	1121025.00
21	10.550110	80.768669	474690.91	1166245.00
22	9.858144	81.004936	500540.81	1089729.00
23	9.173143	81.203262	522330.31	1014001.00
24	9.172436	80.256630	418330.31	1014001.00
25	9.000751	80.256989	418330.31	995018.13
26	8.824954	80.184601	410330.31	975597.63
28	8.649147	80.112267	402330.31	956177.00
29	8.473332	80.040009	394330.31	936756.50
30	8.297509	79.967796	386330.31	917335.88
31	8.121679	79.895653	378330.31	897915.38
32	7.770210	79.824043	370330.31	859074.31
36	7.001526	79.838654	371719.81	774076.00
37	6.499893	79.950653	383973.19	718584.69
38	6.263175	80.007141	390169.41	692400.63