



Council

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Report and recommendations of the Legal and Technical Commission to the Council of the International Seabed Authority relating to an application for the approval of a plan of work for exploration for polymetallic sulphides by the Federal Institute for Geosciences and Natural Resources on behalf of the Federal Republic of Germany

I. Introduction

1. On 17 December 2013, the Secretary-General of the International Seabed Authority received an application for the approval of a plan of work for exploration for polymetallic sulphides in the Area. The application was submitted, pursuant to the Regulations on prospecting and exploration for polymetallic sulphides in the Area ([ISBA/16/A/12/Rev.1](#), annex), by the Federal Institute for Geosciences and Natural Resources on behalf of the Federal Republic of Germany.
2. On 19 December 2013, in accordance with regulation 22 (c) of the Regulations, the Secretary-General issued a note verbale to notify the members of the Authority of the receipt of the application and circulated information of a general nature concerning the application. The Secretary-General also placed consideration of the application as an item on the agenda of the Legal and Technical Commission at its meeting held from 3 to 13 February 2014.
3. On 28 June 2014, the applicant submitted to the Secretary-General of the Authority amendments to the application which modified the area under application.



II. Methodology and consideration of the application by the Legal and Technical Commission

A. General methodology applied by the Commission in consideration of the application

4. In its consideration of the application, the Commission noted that, in keeping with the scheme established in article 6 of annex III to the United Nations Convention on the Law of the Sea, it was first required to make an objective determination as to whether the applicant had fulfilled the requirements contained in the Regulations, particularly with respect to the form of applications; whether the applicant had provided the necessary undertakings and assurances specified in regulation 15 of the Regulations; and whether it had the necessary financial and technical capability to carry out the proposed plan of work for exploration and, as appropriate, had satisfactorily discharged its obligations under any previous contract with the Authority. The Commission is then required to determine, in accordance with regulation 23 (4) of the Regulations and its procedures, whether the proposed plan of work will provide for effective protection of human health and safety, effective protection and preservation of the marine environment, and ensure that installations are not established where interference may be caused to the use of recognized sea lanes essential to international navigation or in areas of intense fishing activity. Regulation 23 (5) of the Regulations goes on to provide that if the Commission makes the determinations specified in paragraph 3 and determines that the proposed plan of work for exploration meets the requirements of paragraph 4, the Commission shall recommend approval of the plan of work for exploration to the Council.

5. In considering the proposed plan of work for exploration for polymetallic sulphides, the Commission took into account the principles, policies and objectives relating to activities in the Area as provided for in Part XI of and annex III to the Convention and in the Agreement relating to the implementation of Part XI of the United Nations Convention on the Law of the Sea of 10 December 1982.

B. Consideration of the application

6. The Commission considered the application in closed meetings on 5, 6 and 7 February 2014, and on 7 and 8 July 2014.

7. Prior to commencing a detailed examination of the application, the Commission invited the head of delegation, Ambassador and Permanent Representative of Germany to the Authority, Josef Beck, and the representatives of the applicant, Ulrich Schwarz-Schampera, geologist, accompanied by Michael Wiedicke-Hombach, geologist, to make a presentation of the application. Members of the Commission then asked questions to obtain clarification on certain aspects of the application before convening in closed session to examine the application in detail. Following its initial consideration, the Commission decided to request the Chair of the Commission to transmit a list of questions to the applicant in writing through the Secretary-General. Responses were received from the applicant; however the Commission did not have time to complete consideration of the application and decided to defer consideration of it and to take it up as a matter of

priority at its next meeting in July 2014. The written responses provided by the applicant, which supplemented the equivalent parts of the originally submitted application, together with the amendments to the area under application, were taken into account by the Commission in its subsequent consideration of the application at its session in July.

III. Summary of basic information regarding the application

A. Identification of the applicant

8. Name of the applicant: Federal Institute for Geosciences and Natural Resources, on behalf of the Federal Republic of Germany.

9. Address of the applicant:

- (a) Street address: Stilleweg 2, D-30655 Hannover, Germany;
- (b) Postal address: Postfach 51 01 53, D-30631 Hannover, Germany;
- (c) Telephone number: +49.511.643-0;
- (d) Fax Number: +49.511.643-23 04;
- (e) E-mail address: poststelle@bgr.de.

10. The applicant's designated representative is:

- (a) Name: Hans-Joachim Kümpel;
- (b) Street address: same as above in paragraph 9 (a);
- (c) Postal address: same as above in paragraph 9 (b);
- (d) Telephone number: +49.511.643-2244;
- (e) Fax number: +49.511.643-3676;
- (f) E-mail address: Hans-Joachim.kuempel@bgr.de.

11. The applicant is the central geoscientific institution of the Government of the Federal Republic of Germany.

B. Sponsorship

12. The sponsoring State is the Federal Republic of Germany.

13. The date of deposit of the instrument of ratification of the 1982 United Nations Convention on the Law of the Sea and of consent to be bound by the Agreement relating to the Implementation of Part XI of the United Nations Convention on the Law of the Sea of 10 December 1982 is 14 October 1994.

14. The certificate of sponsorship is dated 28 November 2013 and signed by Knut Brünjes, Director General of the Federal Ministry of Economics and Technology.

15. The certificate of sponsorship states that the applicant is the geoscientific research and advisory agency of the German Federal Government. As part of the German federal administration, the applicant is organized under German public law

and is subject to the effective control and supervision of the German Federal Ministry of Economics and Technology; in that certificate, the sponsoring State declares that it assumes responsibility in accordance with article 139, article 153, paragraph 4, and annex III, article 4, paragraph 4, of the United Nations Convention on the Law of the Sea. The certificate of sponsorship refers to the domestic legislation which governs prospecting and activities in the Area which are conducted by natural or legal persons subject to German law.

C. Area of application

16. The area under application is located in the Central Indian Ocean. It consists of 100 blocks measuring approximately 10 km by 10 km each, with an area of 100 km². As amended by the applicant, the blocks are arranged in 12 non-contiguous clusters, with a minimum of 5 blocks per cluster. The blocks in each cluster are contiguous. The 12 clusters are confined with a rectangular area. The confining rectangle has a length (NW-SE) of 949.8 km and a width of 228.7 km. The covered area is approximately 217,500 km² in size. This complies with regulation 12. The coordinates and general location of the area under application are shown in the annex to the present document.

D. Other information

17. The Federal Institute for Geosciences and Natural Resources and the Authority signed a contract for exploration for polymetallic nodules on 19 July 2006. The applicant provided a list of reports which have been submitted to the Authority in connection with the contract.

18. The applicant attached a written undertaking signed by the applicant's designated representative, in compliance with regulation 15 of the Regulations.

19. The applicant elects to offer an equity interest in a joint venture arrangement in accordance with regulation 19 of the Regulations.

20. The applicant has paid a fee of \$500,000 in accordance with regulation 21 (1) (a) of the Regulations.

IV. Examination of information and technical data submitted by the applicant

21. The following technical documents and information were submitted in the application:

- (a) Information relating to the area under application:
 - (i) Charts of the location of the blocks;
 - (ii) A list of the coordinates of the corners of blocks under application in accordance with the World Geodetic System 1984;
- (b) A certificate of sponsorship;

- (c) Information to enable the Council to determine whether the applicant is financially capable of carrying out the proposed plan of work for exploration;
- (d) Information to enable the Council to determine whether the applicant is technically capable of carrying out the proposed plan of work for exploration;
- (e) Plan of work for exploration;
- (f) Training programme;
- (g) Written undertakings by the applicant.

V. Consideration of financial and technical qualifications of the applicant

A. Financial capacity

22. The applicant stated that it had the necessary financial resources to meet the estimated costs of the proposed plan of work for exploration and is financially capable of responding to any incident or activity of the proposed exploration which might cause harm to the marine environment. The applicant also indicated expenditures related to the exploration of polymetallic sulphides and their environmental characteristics, along with costs related to German research cruises to the area under application since the first cruises in the early 1980s.

B. Technical capacity

23. In evaluating the technical capacity of the applicant, the Commission took note of the scope of responsibilities of the Federal Institute for Geosciences and Natural Resources, as well as information in relation to its marine expertise, particularly in the exploration of polymetallic nodules and polymetallic sulphides. The applicant has a well-experienced and well-equipped marine research section which covers all geo-scientific disciplines. Since its foundation in 1958, the applicant has conducted more than 100 marine research projects in oceans around the world and has a suite of in-house geochemical, mineralogical and micro-analytical laboratories and equipment of an international standard. In addition, the applicant currently holds an exploration contract with the Authority since 2006. With respect to polymetallic sulphides, more particularly, the applicant has a long record of scientific and prospecting work in the southern Central and the northernmost South-east Indian Ridge which has resulted in a well-established database for the proposed exploration activities. From 1983 to 2012, the applicant and two German universities sampled extensively and collected data to prepare the prospecting programme, as reported to and duly recorded by the Authority in September 2011, and in the submission of the present application. The applicant stated that it would provide all available data from the former research cruises, as well as from the prospecting activities during cruises INDEX 2011, INDEX 2012 and INDEX 2013.

24. The applicant provided information regarding the planned operation in carrying out the proposed plan of work for exploration, as well as on the methods and instruments to be used for that purpose, including a detailed list of equipment to be deployed each year for the first five-year programme of activities. The methods

and instruments include the research vessel RV *Sonne*, geophysical profiling, photo profiling, bottom sampling, water column sampling, environmental monitoring and new methods for optimizing the exploration results.

25. The applicant provided information related to the prevention, reduction and control of hazards to and possible impacts on the marine environment. The applicant states that exploration activities are designed to avoid any serious, lasting or permanent harm to the marine environment. In the very unlikely case of environmental pollution during exploration, vessels for accident control can be made available. Vessels to be used will conform to the international standards regarding safety and environmental practice, including the International Convention for the Prevention of Pollution from Ships, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78). The applicant will comply with the rules, regulations and procedures of the Authority and with the complementary German laws and regulations for the prevention, reduction and control of pollution of the marine environment. The applicant further states that, in terms of the impact of the suggested cruises on the environment, they are considered not to have a significant impact on the seabed. Environmental impact assessments and monitoring of activities that may have adverse impacts on the environment will be conducted. Internationally recognized experts will be invited to take part in the applicant's exploration cruises and international collaboration will be initiated to control such measures for the prevention of damage to the marine environment.

VI. Consideration of data and information submitted for approval of the plan of work for exploration

26. In accordance with regulation 20 of the Regulations, the applicant submitted the following information for approval of the plan of work for exploration:

(a) A general description and schedule of the proposed exploration programme, including the programme of activities for the immediate five-year period;

(b) A description of the programme for oceanographic and environmental baseline studies in accordance with the Regulations and any environmental rules, regulations and procedures established by the Authority that would enable an assessment of the potential environmental impact, including, but not restricted to, the impact on biodiversity of the proposed exploration activities, taking into account any recommendations issued by the Legal and Technical Commission;

(c) A preliminary assessment of the possible impact of the proposed exploration activities on the marine environment;

(d) A description of proposed measures for the prevention, reduction and control of pollution and other hazards, as well as possible impacts on the marine environment;

(e) Data necessary for the Council to make the determination as required by regulation 13, paragraph 1;

(f) A schedule of anticipated yearly expenditures in respect of the programme of activities for the immediate five-year period.

VII. Training programme

27. The Commission noted that the applicant's proposed training programme included six at-sea training opportunities and a four-month training course for two participants for the immediate five-year period. The applicant also provided detailed information on the objectives and content of the training opportunities. The Commission highlighted the fact that, in developing the training programme, the applicant and the Secretary-General should ensure that the training programme is in line with the Recommendations for the guidance of contractors and sponsoring States relating to training programmes under plans of work for exploration, as developed by the Commission during the nineteenth session ([ISBA/19/LTC/14](#)).

VIII. Conclusion and recommendations

28. Having examined the particulars submitted by the applicant, summarized in sections III to VII above, the Commission is satisfied that the application has been duly submitted in accordance with the Regulations and that the applicant is a qualified applicant within the meaning of annex III, article 4, of the Convention. The Commission is further satisfied that the applicant:

- (a) Has complied with the provisions of the Regulations;
- (b) Has given the undertakings and assurances specified in regulation 15 of the Regulations;
- (c) Possesses the financial and technical capability to carry out the proposed plan of work for exploration.

29. The Commission is satisfied that none of the conditions in regulation 23 (6) of the Regulations apply.

30. With respect to the proposed plan of work for exploration, the Commission is satisfied that the proposed plan of work for exploration will:

- (a) Provide for effective protection of human health and safety;
- (b) Provide for effective protection and preservation of the marine environment;
- (c) Ensure that installations are not established where interference may be caused to the use of recognized sea lanes essential to international navigation or in areas of intense fishing activity.

31. Accordingly, pursuant to regulation 23 (5) of the Regulations, the Commission recommends to the Council approval of the plan of work for exploration for polymetallic sulphides submitted by the Federal Institute for Geosciences and Natural Resources, on behalf of the Federal Republic of Germany.

Annex I

List of coordinates of the area under application

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
1	68.57678895	-21.21955579
1	68.66154710	-21.17659568
1	68.62260634	-21.29904664
1	68.70740564	-21.25606681
2	68.66155601	-21.17659928
2	68.74626566	-21.13359583
2	68.70740564	-21.25606681
2	68.79214789	-21.21304113
3	68.56468890	-21.32838088
3	68.64951327	-21.28542839
3	68.69538993	-21.36489966
3	68.61053243	-21.40787443
4	68.64951327	-21.28542839
4	68.73428884	-21.24243231
4	68.78019833	-21.32188122
4	68.69538993	-21.36489966
5	68.73428884	-21.24243231
5	68.81901559	-21.19939290
5	68.86495759	-21.27881938
5	68.78019833	-21.32188122
6	68.61053243	-21.40787443
6	68.69538993	-21.36489966
6	68.74131570	-21.44435822
6	68.65642503	-21.48735543
7	68.69538993	-21.36489966
7	68.78019833	-21.32188122
7	68.82615695	-21.40131726

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
7	68.74131570	-21.44435822
8	68.78019833	-21.32188122
8	68.86495759	-21.27881938
8	68.91094876	-21.35823284
8	68.82615695	-21.40131726
9	68.77584503	-21.75143624
9	68.86083881	-21.70838920
9	68.90697920	-21.78779158
9	68.82193491	-21.83087040
10	68.86083881	-21.70838920
10	68.94582265	-21.66528628
10	68.99197505	-21.74466748
10	68.90697920	-21.78779158
11	68.94582265	-21.66528628
11	69.03073276	-21.62214270
11	69.07691954	-21.70150852
11	68.99197279	-21.74466863
12	68.82193491	-21.83087040
12	68.90697181	-21.78777886
12	68.95315140	-21.86718617
12	68.86807547	-21.91029126
13	68.90697920	-21.78779158
13	68.99197279	-21.74466863
13	69.03817982	-21.82404291
13	68.95315140	-21.86718617
14	68.99197279	-21.74466863
14	69.07691954	-21.70150852
14	69.12315543	-21.78085270
14	69.03817270	-21.82403068

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
15	68.93417887	-21.87681019
15	69.01921692	-21.83367374
15	69.06546764	-21.91303948
15	68.98039642	-21.95619939
16	69.01921692	-21.83367374
16	69.10420560	-21.79048425
16	69.15048749	-21.86982355
16	69.06546764	-21.91303948
17	69.01324592	-22.93649252
17	69.10009852	-22.89547110
17	69.14441012	-22.97593592
17	69.05752048	-23.01698235
18	69.10013368	-22.89544699
18	69.18698628	-22.85442556
18	69.23115959	-22.93495688
18	69.14441012	-22.97593592
19	69.18698628	-22.85442556
19	69.27387644	-22.81338006
19	69.31815100	-22.89386988
19	69.23115959	-22.93495688
20	69.05759609	-23.01693958
20	69.14441012	-22.97593592
20	69.18876061	-23.05638355
20	69.10187066	-23.09742940
21	69.14441012	-22.97593592
21	69.23115959	-22.93495688
21	69.27557020	-23.01537611
21	69.18876061	-23.05638355
22	69.23115959	-22.93495688

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
22	69.31815100	-22.89386988
22	69.36246311	-22.97433564
22	69.27557020	-23.01537611
23	69.38133314	-23.83939827
23	69.47012852	-23.80086247
23	69.51206408	-23.88253349
23	69.42322626	-23.92109370
24	69.47012852	-23.80086247
24	69.55887075	-23.76227623
24	69.60084843	-23.84392273
24	69.51206408	-23.88253349
25	69.55887075	-23.76227623
25	69.64755976	-23.72363984
25	69.68957922	-23.80526171
25	69.60084843	-23.84392273
26	69.42322626	-23.92109370
26	69.51206408	-23.88253349
26	69.55405312	-23.96419131
26	69.46517278	-24.00277610
27	69.51206408	-23.88253349
27	69.60084843	-23.84392273
27	69.64287965	-23.92555587
27	69.55405312	-23.96419131
28	69.60084843	-23.84392273
28	69.68957922	-23.80526171
28	69.73165231	-23.88687005
28	69.64287965	-23.92555587
29	69.46517278	-24.00277610
29	69.55405312	-23.96419131

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
29	69.59609592	-24.04583584
29	69.50717301	-24.08444533
30	69.55405312	-23.96419131
30	69.64287965	-23.92555587
30	69.68496477	-24.00717551
30	69.59609595	-24.04583580
31	69.64287965	-23.92555587
31	69.73165231	-23.88687005
31	69.77377936	-23.96846473
31	69.68496477	-24.00717551
32	69.50717298	-24.08444537
32	69.59609592	-24.04583584
32	69.63819292	-24.12746683
32	69.54922727	-24.16610128
33	69.59609592	-24.04583584
33	69.68496477	-24.00717551
33	69.72710408	-24.08878153
33	69.63819292	-24.12746683
34	69.68496477	-24.00717551
34	69.77377936	-23.96846473
34	69.81596071	-24.05004561
34	69.72710409	-24.08878151
35	70.10675193	-25.18060411
35	70.20568793	-25.18060411
35	70.20568793	-25.27090082
35	70.10675193	-25.27090082
36	70.20568793	-25.18060411
36	70.30462393	-25.18060411
36	70.30462393	-25.27090082

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
36	70.20568793	-25.27090082
37	70.00781593	-25.27090082
37	70.10675193	-25.27090082
37	70.10675193	-25.36119753
37	70.00781593	-25.36119753
38	70.10675193	-25.27090082
38	70.20568793	-25.27090082
38	70.20568793	-25.36119753
38	70.10675193	-25.36119753
39	70.20568793	-25.27090082
39	70.30462393	-25.27090082
39	70.30462393	-25.36119753
39	70.20568793	-25.36119753
40	69.71100793	-25.36119753
40	69.80994393	-25.36119753
40	69.80994393	-25.45149424
40	69.71100793	-25.45149424
41	69.80994393	-25.36119753
41	69.90887993	-25.36119753
41	69.90887993	-25.45149424
41	69.80994393	-25.45149424
42	69.90887993	-25.36119753
42	70.00781593	-25.36119753
42	70.00781593	-25.45149424
42	69.90887993	-25.45149424
43	70.00781593	-25.36119753
43	70.10675193	-25.36119753
43	70.10675193	-25.45149424
43	70.00781593	-25.45149424

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
44	70.10675193	-25.36119753
44	70.20568793	-25.36119753
44	70.20568793	-25.45149424
44	70.10675193	-25.45149424
45	70.20568793	-25.36119753
45	70.30462393	-25.36119753
45	70.30462393	-25.45149424
45	70.20568793	-25.45149424
46	69.71100793	-25.45149424
46	69.80994393	-25.45149424
46	69.80994393	-25.54179095
46	69.71100793	-25.54179095
47	69.80994393	-25.45149424
47	69.90887993	-25.45149424
47	69.90887993	-25.54179095
47	69.80994393	-25.54179095
48	69.90887993	-25.45149424
48	70.00781593	-25.45149424
48	70.00781593	-25.54179095
48	69.90887993	-25.54179095
49	70.05728393	-25.45149424
49	70.15621993	-25.45149424
49	70.15621993	-25.54179095
49	70.05728393	-25.54179095
50	69.71100793	-25.54179095
50	69.80994393	-25.54179095
50	69.80994393	-25.63208766
50	69.71100793	-25.63208766
51	69.80994393	-25.54179095

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
51	69.90887993	-25.54179095
51	69.90887993	-25.63208766
51	69.80994393	-25.63208766
52	70.18169605	-25.64999452
52	70.24477007	-25.71996653
52	70.16730644	-25.77697431
52	70.10423242	-25.70700231
53	70.10423242	-25.70700231
53	70.16729970	-25.77697927
53	70.08983823	-25.83398945
53	70.02676879	-25.76397598
54	70.25611566	-25.71162197
54	70.31919631	-25.78160133
54	70.24171917	-25.83860656
54	70.17867061	-25.76861627
55	70.17865213	-25.76862987
55	70.24171917	-25.83860656
55	70.16425784	-25.89561690
55	70.10118840	-25.82560343
56	70.33089087	-25.77301123
56	70.39397152	-25.84299059
56	70.31648173	-25.89998177
56	70.25343293	-25.82999121
57	70.25343293	-25.82999121
57	70.31648173	-25.89998177
57	70.23904138	-25.95697641
57	70.17599060	-25.88698366
58	70.40533011	-25.83465712
58	70.46841076	-25.90463648

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
58	70.39090978	-25.96161524
58	70.32786808	-25.89163103
59	70.32786649	-25.89163080
59	70.39090978	-25.96161524
59	70.31346099	-26.01860386
59	70.25039155	-25.94859040
60	70.78254285	-25.95570495
60	70.84561715	-26.02567726
60	70.76814866	-26.08269209
60	70.70507922	-26.01267863
61	70.88433246	-25.99716617
61	70.94749435	-26.06709616
61	70.87004658	-26.12415717
61	70.80689557	-26.05419296
62	70.98027809	-25.96067660
62	71.04347284	-26.03056281
62	70.96610518	-26.08766686
62	70.90292064	-26.01774616
63	70.94749435	-26.06709616
63	71.01073231	-26.13699357
63	70.93327384	-26.19408893
63	70.87004658	-26.12415717
64	71.04347284	-26.03056281
64	71.10674476	-26.10041584
64	71.02935966	-26.15755900
64	70.96610518	-26.08766686
65	71.29631067	-26.02571558
65	71.35979782	-26.09540903
65	71.28255329	-26.15272080

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
65	71.21907531	-26.08299273
66	71.37254324	-26.08595712
66	71.43603040	-26.15565059
66	71.35878586	-26.21296235
66	71.29530788	-26.14323427
67	71.47280923	-26.05400645
67	71.53633309	-26.12365297
67	71.45916210	-26.18101388
67	71.39565425	-26.11132739
68	71.54989506	-25.99664389
68	71.61342741	-26.06625586
68	71.53633309	-26.12365297
68	71.47280923	-26.05400645
69	71.53633309	-26.12365297
69	71.59993363	-26.19326527
69	71.52275402	-26.25066092
69	71.45916210	-26.18101388
70	71.61342741	-26.06625586
70	71.67703626	-26.13583347
70	71.59993363	-26.19326527
70	71.53633309	-26.12365297
71	71.52750209	-26.28980707
71	71.59200281	-26.35879975
71	71.51539869	-26.41693573
71	71.45089925	-26.34790180
72	71.61486548	-26.34144368
72	71.67944795	-26.41039256
72	71.60285405	-26.46856772
72	71.53827876	-26.39958411

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
73	71.66541161	-26.42106788
73	71.73007484	-26.48999110
73	71.65346026	-26.54819532
73	71.58880371	-26.47923626
74	71.74194681	-26.36282939
74	71.80661139	-26.43175160
74	71.73007486	-26.48999169
74	71.66541161	-26.42106788
75	71.80661139	-26.43175160
75	71.87135924	-26.50060414
75	71.79481365	-26.55887586
75	71.73007486	-26.48999169
76	71.85307581	-26.51453559
76	71.91790078	-26.58336026
76	71.84132921	-26.64165779
76	71.77651465	-26.57280227
77	71.90363563	-26.59422902
77	71.96853841	-26.66302376
77	71.89195054	-26.72135490
77	71.82705368	-26.65252457
78	71.81847660	-26.30462476
78	71.88314365	-26.37351474
78	71.80661005	-26.43175320
78	71.74194681	-26.36282939
79	71.89501085	-26.24638701
79	71.95968048	-26.31527562
79	71.88314365	-26.37351474
79	71.81847660	-26.30462476
80	71.91491116	-26.34935400

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
80	71.97952555	-26.41828465
80	71.90304462	-26.47648244
80	71.83839141	-26.40756934
81	71.97952555	-26.41828465
81	72.04425046	-26.48713123
81	71.96771429	-26.54537105
81	71.90304462	-26.47648244
82	72.15957460	-26.83221151
82	72.22396138	-26.90148015
82	72.14668543	-26.95921778
82	72.08230776	-26.88991831
83	72.22396138	-26.90148015
83	72.28832484	-26.97076313
83	72.21114349	-27.02848033
83	72.14668543	-26.95921778
84	72.23685057	-26.77447389
84	72.30122697	-26.84377080
84	72.22396138	-26.90148015
84	72.15957460	-26.83221151
85	72.30122697	-26.84377080
85	72.36561142	-26.91303418
85	72.28832484	-26.97076313
85	72.22396014	-26.90147760
86	72.32614911	-26.94252247
86	72.39065872	-27.01165243
86	72.31341616	-27.06949023
86	72.24887420	-27.00028260
87	72.40767062	-26.99891142
87	72.47229758	-27.06803356

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
87	72.39506552	-27.12591424
87	72.33044125	-27.05675213
88	72.48451292	-27.05887745
88	72.54922510	-27.12795942
88	72.47199683	-27.18587875
88	72.40729039	-27.11676022
89	72.65423810	-27.20674712
89	72.71920678	-27.27570488
89	72.64202106	-27.33372496
89	72.57701664	-27.26476084
90	72.71920747	-27.27570562
90	72.78421105	-27.34463715
90	72.70698460	-27.40268785
90	72.64202106	-27.33372496
91	72.78421091	-27.34463725
91	72.84927953	-27.41354225
91	72.77204830	-27.47163007
91	72.70698460	-27.40268785
92	72.69922505	-27.11446223
92	72.76409328	-27.18342835
92	72.68691279	-27.24141210
92	72.62209298	-27.17245595
93	72.76409328	-27.18342835
93	72.82904323	-27.25235520
93	72.75193619	-27.31039634
93	72.68691279	-27.24141210
94	72.82904323	-27.25235520
94	72.89409256	-27.32123017
94	72.81696397	-27.37932109

<i>Block No.</i>	<i>Longitude</i>	<i>Latitude</i>
94	72.75193619	-27.31039634
95	73.83250015	-27.50682915
95	73.89825720	-27.57514983
95	73.82156598	-27.63376911
95	73.75581026	-27.56541109
96	73.75581026	-27.56541109
96	73.82156598	-27.63376911
96	73.74479318	-27.69235849
96	73.67903628	-27.62395992
97	73.67903628	-27.62395992
97	73.74479318	-27.69235849
97	73.66793373	-27.75091224
97	73.60217801	-27.68247563
98	73.82943914	-27.62776014
98	73.89527910	-27.69607211
98	73.81851418	-27.75470286
98	73.75267255	-27.68635015
99	73.90612172	-27.56913753
99	73.97196502	-27.63741444
99	73.89527910	-27.69607211
99	73.82943914	-27.62776014
100	73.90374727	-27.68960372
100	73.96967427	-27.75787176
100	73.89291527	-27.81654136
100	73.82698901	-27.74823526

Annex II

Map of the general location of the area under application

