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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 approval of a plan of work for exploration for polymetallic sulphides by the Institut français de recherche pour l'exploitation de la mer

I. Introduction

1. On 23 May 2012, the Secretary-General of the International Seabed Authority received an application for 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, "the Regulations") by the Institut français de recherche pour l'exploitation de la mer (IFREMER).

2. In accordance with regulation 22 (c) of the Regulations, by a note verbale dated 25 May 2012, the Secretary-General notified the members of the Authority of the receipt of the application and circulated information of a general nature concerning it. 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 9 to 19 July 2012.

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

3. 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 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 will ensure that installations are not established where interference may be caused with 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.”

4. 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 and annex III of the Convention and in the Agreement relating to the Implementation of Part XI of the United Nations Convention on the Law of the Sea adopted in 1994.

B. Consideration of the application

5. The Commission considered the application in closed meetings on 9, 11, 12, 16 and 17 July 2012.

6. Prior to commencing a detailed examination of the application, the Commission invited Dr. Yves Fouquet (Head of the geochemistry and metallogeny laboratory, Marine Geosciences Department, IFREMER) to make a presentation of the application. Members of the Commission then asked questions to clarify certain aspects of the application before convening in closed session to examine the application in detail.

III. Summary of basic information regarding the application

A. Identification of the applicant

7. The name and address of the applicant are as follows:

- (a) Name: Institut français de recherche pour l'exploitation de la mer;
- (b) Street address: 155, rue Jean-Jacques Rousseau, 92138 Issy-Les-Moulineaux — Cedex, France;
- (c) Postal address: as above;
- (d) Telephone number: 33 (0)1 46 48 21 09;
- (e) Fax number: 33 (0)1 46 48 21 20;
- (f) E-mail address: mineral.resources@ifremer.fr.

8. The applicant's designated representative is:
- (a) Name: Jean-Yves Perrot;
 - (b) Street address of applicant's designated representative: same as above;
 - (c) Postal address: as above;
 - (d) Telephone number: 33 (0)1 46 48 22 87;
 - (e) Fax number: 33 (0)1 46 48 22 48;
 - (f) E-mail address: Jean.Yves.Perrot@ifremer.fr.
9. The applicant's place of registration is Nanterre Register of Companies; and the principal place of business/domicile: 155, rue Jean-Jacques Rousseau, 92138 Issy-Les-Moulineaux — Cedex, France. The applicant provided a copy of the extract from the Register of Companies as of 16 January 2012.

B. Sponsorship

10. The sponsoring State is France.
11. The date of deposit of instrument of ratification by France of the United Nations Convention on the Law of the Sea and date of the ratification of 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 11 April 1996.
12. The date of the certificate of sponsorship is 3 May 2012; it was issued by Alain Juppé, Minister of State for Foreign and European Affairs of the Government of France. In the accompanying letter, the sponsoring State declared that it had decided that, as part of its national strategy on deep-sea mineral resources, an application for exploration for polymetallic sulphides would be submitted to the Authority and the operator would be IFREMER. The applicant provided the decree on the establishment, organization and operation of IFREMER and the decree on the appointment of the applicant's designated representative.
13. The certificate of sponsorship states that the Government of France assumes responsibilities for the activities of the applicant in accordance with article 139, article 153, paragraph 4, and annex III, article 4, paragraph 4, of the Convention. The sponsoring State declares that the applicant is a public institution which is placed under its effective control.

C. Area of application

14. The area under application is situated along the Mid-Atlantic Ridge between latitudes 20°57'46"N and 26°20'29"N, and between longitudes 46°37'42"W and 44°37'20"W. It consists of 100 blocks measuring approximately 10 km by 10 km each which are grouped into six clusters, each containing from 5 to 25 blocks. The clusters of blocks are not contiguous, but are proximate and confined within a rectangular area not exceeding 300,000 km² in size and where the longest size does not exceed 1,000 km in length. The coordinates and general location of the area under application are shown in annex I to the present document.

D. Other information

15. The date of receipt of application is 23 May 2012.
16. The applicant's previous contracts with the Authority are as follows:
 - (a) Date of the previous contract: IFREMER and the Authority signed a contract for exploration for polymetallic nodules in the Area on 20 June 2001;
 - (b) The reports submitted to the Authority in connection with the contract for exploration for polymetallic nodules are listed in the application;
 - (c) The date of expiration of the contract: 19 June 2016.
17. The applicant attached a written undertaking, which is dated 27 April 2012 and signed by the applicant's designated representative in compliance with regulation 15 of the Regulations.
18. The applicant elects to offer an equity interest in a joint venture arrangement in accordance with regulation 19 of the Regulations.
19. The applicant has paid a fee of US\$ 500,000 in accordance with regulation 21 (1) (a) of the Regulations.

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

20. 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;
 - (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

21. In evaluating the financial capacity of the applicant, the Commission noted that the applicant had provided a statement by the sponsoring State certifying that the applicant had the necessary financial resources to meet the estimated costs of the proposed plan of work for exploration in accordance with regulation 13 (3) of the Regulations. The applicant also submitted audited financial statements. The applicant stated that it had protection and indemnity liability insurance for damage caused by the operation of its research vessels and a specialist operation clause guarantee for damage, including environmental damage, caused by equipment deployed from its research vessels.

B. Technical capacity

22. In evaluating the technical capacity of the applicant, the Commission noted that the applicant had been involved in hydrothermal vents research from their discovery and had conducted extensive studies in the North Atlantic, and specifically in the area under the application. The applicant provided details about previous research cruises. The applicant also indicated that it was a contractor for exploration for nodules in the Area.

23. The applicant provided information related to the prevention, reduction and control of hazards and possible impacts to the marine environment. This included the description of a plan for a programme for oceanographic and environmental baseline studies to ensure that the exploration activities cause minimal impact on the marine environment. The applicant listed the main equipment that would be used for the proposed activities, including detailed specifications. The applicant provided an extensive list of scientific studies in relation to the application. The applicant stated that it would investigate both active and inactive hydrothermal vent areas. The applicant further stated that it would encourage ongoing scientific research in connection with hydrothermal vent areas, for example in the Trans-Atlantic Geotraverse (TAG), in accordance with article 143 of the Convention.

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

24. 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 a 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 these 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, to the marine environment;

(e) Data necessary for the Council to make the determination it is required to make in accordance with 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

25. The Commission noted that the applicant had indicated that, in accordance with regulation 29 and section 8 of annex 4 to the Regulations, the contractor would draw up training programmes in cooperation with the Authority.

VIII. Conclusion and recommendations

26. Having examined the particulars submitted by the applicant, which are 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.

27. The Commission states that none of the conditions in regulation 23 (6) of the Regulations apply.

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

29. Accordingly, pursuant to regulation 23 (5), the Commission recommends that the Council approve the plan of work for exploration for polymetallic sulphides submitted by the Institut français de recherche pour l'exploitation de la mer.

Annex I

List of coordinates of the general location of the area under application

(In decimal degrees following the World Geodetic System 1984 geographical projection system.)

| Cluster | Block No. | NW coordinates | | NE coordinates | | SE coordinates | | SW coordinates | | Area (km ²) |
|---------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|-------------------------|
| | | Latitude | Longitude | Latitude | Longitude | Latitude | Longitude | Latitude | Longitude | |
| 1 | 1 | 26.24728 | -44.84244 | 26.24713 | -44.74231 | 26.15684 | -44.74251 | 26.15698 | -44.84256 | 100 |
| | 2 | 26.24713 | -44.74231 | 26.24692 | -44.64218 | 26.15662 | -44.64245 | 26.15684 | -44.74251 | 100 |
| | 3 | 26.15698 | -44.84256 | 26.15684 | -44.74251 | 26.06654 | -44.74271 | 26.06668 | -44.84268 | 100 |
| | 4 | 26.15684 | -44.74251 | 26.15662 | -44.64245 | 26.06633 | -44.64273 | 26.06654 | -44.74271 | 100 |
| | 5 | 26.06676 | -44.94266 | 26.06668 | -44.84268 | 25.97639 | -44.84280 | 25.97646 | -44.94271 | 100 |
| | 6 | 26.06668 | -44.84268 | 26.06654 | -44.74271 | 25.97624 | -44.74290 | 25.97639 | -44.84280 | 100 |
| | 7 | 26.06654 | -44.74271 | 26.06633 | -44.64273 | 25.97603 | -44.64300 | 25.97624 | -44.74290 | 100 |
| | 8 | 25.97646 | -45.04261 | 25.97646 | -44.94271 | 25.88616 | -44.94275 | 25.88617 | -45.04258 | 100 |
| | 9 | 25.97646 | -44.94271 | 25.97639 | -44.84280 | 25.88609 | -44.84292 | 25.88616 | -44.94275 | 100 |
| | 10 | 25.88610 | -45.14240 | 25.88617 | -45.04258 | 25.79586 | -45.04254 | 25.79580 | -45.14229 | 100 |
| | 11 | 25.88617 | -45.04258 | 25.88616 | -44.94275 | 25.79586 | -44.94279 | 25.79586 | -45.04254 | 100 |
| | 12 | 25.88616 | -44.94275 | 25.88609 | -44.84292 | 25.79579 | -44.84304 | 25.79586 | -44.94279 | 100 |
| | 13 | 25.79580 | -45.14229 | 25.79586 | -45.04254 | 25.70556 | -45.04251 | 25.70550 | -45.14219 | 100 |
| | 14 | 25.79586 | -45.04254 | 25.79586 | -44.94279 | 25.70556 | -44.94284 | 25.70556 | -45.04251 | 100 |
| | 15 | 25.79586 | -44.94279 | 25.79579 | -44.84304 | 25.70549 | -44.84316 | 25.70556 | -44.94284 | 100 |
| | 16 | 25.70537 | -45.24186 | 25.70550 | -45.14219 | 25.61520 | -45.14208 | 25.61507 | -45.24168 | 100 |
| | 17 | 25.61487 | -45.34128 | 25.61507 | -45.24168 | 25.52476 | -45.24150 | 25.52457 | -45.34102 | 100 |
| | 18 | 25.61507 | -45.24168 | 25.61520 | -45.14208 | 25.52489 | -45.14197 | 25.52476 | -45.24150 | 100 |
| | 19 | 25.61520 | -45.14208 | 25.61526 | -45.04248 | 25.52496 | -45.04245 | 25.52489 | -45.14197 | 100 |
| | 20 | 25.52457 | -45.34102 | 25.52476 | -45.24150 | 25.43446 | -45.24132 | 25.43426 | -45.34077 | 100 |
| | 21 | 25.52476 | -45.24150 | 25.52489 | -45.14197 | 25.43459 | -45.14187 | 25.43446 | -45.24132 | 100 |
| 2 | 22 | 25.29473 | -45.43062 | 25.29499 | -45.33129 | 25.20468 | -45.33104 | 25.20442 | -45.43030 | 100 |
| | 23 | 25.20442 | -45.43030 | 25.20468 | -45.33104 | 25.11437 | -45.33080 | 25.11412 | -45.42999 | 100 |
| | 24 | 25.20410 | -45.52956 | 25.20442 | -45.43030 | 25.11412 | -45.42999 | 25.11380 | -45.52917 | 100 |
| | 25 | 25.18760 | -45.62874 | 25.18799 | -45.52949 | 25.09768 | -45.52911 | 25.09730 | -45.62828 | 100 |
| | 26 | 25.09723 | -45.64441 | 25.09763 | -45.54524 | 25.00732 | -45.54484 | 25.00692 | -45.64394 | 100 |
| | 27 | 25.00688 | -45.65513 | 25.00728 | -45.55603 | 24.91697 | -45.55563 | 24.91657 | -45.65465 | 100 |
| | 28 | 24.91663 | -45.64010 | 24.91703 | -45.54108 | 24.82672 | -45.54068 | 24.82633 | -45.63964 | 100 |
| | 29 | 24.82638 | -45.62658 | 24.82676 | -45.52763 | 24.73645 | -45.52724 | 24.73607 | -45.62613 | 100 |
| 3 | 30 | 24.61602 | -46.32638 | 24.61685 | -46.22761 | 24.52656 | -46.22673 | 24.52572 | -46.32542 | 100 |
| | 31 | 24.61685 | -46.22761 | 24.61763 | -46.12883 | 24.52733 | -46.12802 | 24.52656 | -46.22673 | 100 |
| | 32 | 24.61763 | -46.12883 | 24.61834 | -46.03005 | 24.52803 | -46.02932 | 24.52733 | -46.12802 | 100 |
| | 33 | 24.52572 | -46.32542 | 24.52656 | -46.22673 | 24.43626 | -46.22585 | 24.43543 | -46.32448 | 100 |
| | 34 | 24.52656 | -46.22673 | 24.52733 | -46.12802 | 24.43703 | -46.12722 | 24.43626 | -46.22585 | 100 |

| Cluster | Block No. | NW coordinates | | NE coordinates | | SE coordinates | | SW coordinates | | Area (km ²) |
|---------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|-------------------------|
| | | Latitude | Longitude | Latitude | Longitude | Latitude | Longitude | Latitude | Longitude | |
| | 35 | 24.52733 | -46.12802 | 24.52803 | -46.02932 | 24.43773 | -46.02858 | 24.43703 | -46.12722 | 100 |
| | 36 | 24.43453 | -46.42310 | 24.43543 | -46.32448 | 24.34514 | -46.32354 | 24.34424 | -46.42209 | 100 |
| | 37 | 24.43543 | -46.32448 | 24.43626 | -46.22585 | 24.34596 | -46.22498 | 24.34514 | -46.32354 | 100 |
| | 38 | 24.43626 | -46.22585 | 24.43703 | -46.12722 | 24.34673 | -46.12642 | 24.34596 | -46.22498 | 100 |
| | 39 | 24.34424 | -46.42209 | 24.34514 | -46.32354 | 24.25484 | -46.32260 | 24.25395 | -46.42109 | 100 |
| | 40 | 24.34514 | -46.32354 | 24.34596 | -46.22498 | 24.25567 | -46.22411 | 24.25484 | -46.32260 | 100 |
| | 41 | 24.34596 | -46.22498 | 24.34673 | -46.12642 | 24.25643 | -46.12562 | 24.25567 | -46.22411 | 100 |
| | 42 | 24.25395 | -46.42109 | 24.25484 | -46.32260 | 24.16455 | -46.32167 | 24.16366 | -46.42008 | 100 |
| | 43 | 24.25484 | -46.32260 | 24.25567 | -46.22411 | 24.16537 | -46.22325 | 24.16455 | -46.32167 | 100 |
| | 44 | 24.25567 | -46.22411 | 24.25643 | -46.12562 | 24.16612 | -46.12483 | 24.16537 | -46.22325 | 100 |
| | 45 | 24.16366 | -46.42008 | 24.16455 | -46.32167 | 24.07425 | -46.32074 | 24.07337 | -46.41909 | 100 |
| | 46 | 24.16455 | -46.32167 | 24.16537 | -46.22325 | 24.07507 | -46.22239 | 24.07425 | -46.32074 | 100 |
| | 47 | 24.16537 | -46.22325 | 24.16612 | -46.12483 | 24.07582 | -46.12404 | 24.07507 | -46.22239 | 100 |
| | 48 | 24.07337 | -46.41909 | 24.07425 | -46.32074 | 23.98395 | -46.31982 | 23.98307 | -46.41810 | 100 |
| | 49 | 24.07425 | -46.32074 | 24.07507 | -46.22239 | 23.98476 | -46.22154 | 23.98395 | -46.31982 | 100 |
| 4 | 50 | 23.59491 | -45.33584 | 23.59509 | -45.23783 | 23.50476 | -45.23767 | 23.50458 | -45.33561 | 100 |
| | 51 | 23.59509 | -45.23783 | 23.59521 | -45.13982 | 23.50488 | -45.13972 | 23.50476 | -45.23767 | 100 |
| | 52 | 23.56711 | -45.13979 | 23.56716 | -45.04179 | 23.47684 | -45.04177 | 23.47678 | -45.13969 | 100 |
| | 53 | 23.53799 | -45.04178 | 23.53799 | -44.94381 | 23.44766 | -44.94385 | 23.44767 | -45.04176 | 100 |
| | 54 | 23.50458 | -45.33561 | 23.50476 | -45.23767 | 23.41443 | -45.23751 | 23.41425 | -45.33538 | 100 |
| | 55 | 23.50476 | -45.23767 | 23.50488 | -45.13972 | 23.41455 | -45.13963 | 23.41443 | -45.23751 | 100 |
| | 56 | 23.47678 | -45.13969 | 23.47684 | -45.04177 | 23.38651 | -45.04174 | 23.38645 | -45.13960 | 100 |
| | 57 | 23.44767 | -45.04176 | 23.44766 | -44.94385 | 23.35733 | -44.94389 | 23.35734 | -45.04173 | 100 |
| | 58 | 23.44766 | -44.94385 | 23.44759 | -44.84595 | 23.35727 | -44.84605 | 23.35733 | -44.94389 | 100 |
| | 59 | 23.41425 | -45.33538 | 23.41443 | -45.23751 | 23.32410 | -45.23734 | 23.32392 | -45.33516 | 100 |
| | 60 | 23.41443 | -45.23751 | 23.41455 | -45.13963 | 23.32422 | -45.13953 | 23.32410 | -45.23734 | 100 |
| | 61 | 23.38645 | -45.13960 | 23.38651 | -45.04174 | 23.29617 | -45.04171 | 23.29612 | -45.13950 | 100 |
| | 62 | 23.35734 | -45.04173 | 23.35733 | -44.94389 | 23.26700 | -44.94393 | 23.26700 | -45.04170 | 100 |
| | 63 | 23.35733 | -44.94389 | 23.35727 | -44.84605 | 23.26693 | -44.84616 | 23.26700 | -44.94393 | 100 |
| | 64 | 23.26701 | -44.99608 | 23.26698 | -44.89830 | 23.17665 | -44.89837 | 23.17668 | -44.99608 | 100 |
| | 65 | 23.17668 | -45.01083 | 23.17665 | -44.91312 | 23.08632 | -44.91318 | 23.08634 | -45.01082 | 100 |
| | 66 | 23.08633 | -45.06038 | 23.08634 | -44.96274 | 22.99601 | -44.96276 | 22.99600 | -45.06034 | 100 |
| | 67 | 22.99600 | -45.06034 | 22.99601 | -44.96276 | 22.90567 | -44.96279 | 22.90566 | -45.06030 | 100 |
| 5 | 68 | 22.73615 | -45.05749 | 22.73616 | -44.96010 | 22.64582 | -44.96012 | 22.64581 | -45.05745 | 100 |
| | 69 | 22.64576 | -45.13750 | 22.64582 | -45.04017 | 22.55548 | -45.04015 | 22.55543 | -45.13741 | 100 |
| | 70 | 22.64582 | -45.04017 | 22.64581 | -44.94285 | 22.55547 | -44.94288 | 22.55548 | -45.04015 | 100 |
| | 71 | 22.55543 | -45.13741 | 22.55548 | -45.04015 | 22.46514 | -45.04012 | 22.46509 | -45.13732 | 100 |
| | 72 | 22.55548 | -45.04015 | 22.55547 | -44.94288 | 22.46513 | -44.94292 | 22.46514 | -45.04012 | 100 |

| Cluster | Block No. | NW coordinates | | NE coordinates | | SE coordinates | | SW coordinates | | Area (km ²) |
|---------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|-------------------------|
| | | Latitude | Longitude | Latitude | Longitude | Latitude | Longitude | Latitude | Longitude | |
| 6 | 73 | 22.46509 | -45.13732 | 22.46514 | -45.04012 | 22.37480 | -45.04010 | 22.37475 | -45.13723 | 100 |
| | 74 | 22.46514 | -45.04012 | 22.46513 | -44.94292 | 22.37479 | -44.94296 | 22.37480 | -45.04010 | 100 |
| | 75 | 22.37475 | -45.13723 | 22.37480 | -45.04010 | 22.28446 | -45.04007 | 22.28440 | -45.13714 | 100 |
| | 76 | 21.91159 | -45.33175 | 21.91176 | -45.23493 | 21.82141 | -45.23479 | 21.82124 | -45.33154 | 100 |
| | 77 | 21.82124 | -45.33154 | 21.82141 | -45.23479 | 21.73106 | -45.23464 | 21.73090 | -45.33134 | 100 |
| | 78 | 21.82141 | -45.23479 | 21.82152 | -45.13803 | 21.73117 | -45.13794 | 21.73106 | -45.23464 | 100 |
| | 79 | 21.73068 | -45.42803 | 21.73090 | -45.33134 | 21.64055 | -45.33113 | 21.64033 | -45.42776 | 100 |
| | 80 | 21.73090 | -45.33134 | 21.73106 | -45.23464 | 21.64071 | -45.23449 | 21.64055 | -45.33113 | 100 |
| | 81 | 21.73106 | -45.23464 | 21.73117 | -45.13794 | 21.64082 | -45.13785 | 21.64071 | -45.23449 | 100 |
| | 82 | 21.64033 | -45.42776 | 21.64055 | -45.33113 | 21.55020 | -45.33092 | 21.54998 | -45.42750 | 100 |
| | 83 | 21.64055 | -45.33113 | 21.64071 | -45.23449 | 21.55036 | -45.23435 | 21.55020 | -45.33092 | 100 |
| | 84 | 21.64071 | -45.23449 | 21.64082 | -45.13785 | 21.55047 | -45.13777 | 21.55036 | -45.23435 | 100 |
| | 85 | 21.54998 | -45.42750 | 21.55020 | -45.33092 | 21.45985 | -45.33072 | 21.45963 | -45.42724 | 100 |
| | 86 | 21.55020 | -45.33092 | 21.55036 | -45.23435 | 21.46001 | -45.23420 | 21.45985 | -45.33072 | 100 |
| | 87 | 21.55036 | -45.23435 | 21.55047 | -45.13777 | 21.46012 | -45.13768 | 21.46001 | -45.23420 | 100 |
| | 88 | 21.45936 | -45.52375 | 21.45963 | -45.42724 | 21.36928 | -45.42697 | 21.36901 | -45.52343 | 100 |
| | 89 | 21.45963 | -45.42724 | 21.45985 | -45.33072 | 21.36950 | -45.33052 | 21.36928 | -45.42697 | 100 |
| | 90 | 21.45985 | -45.33072 | 21.46001 | -45.23420 | 21.36966 | -45.23406 | 21.36950 | -45.33052 | 100 |
| | 91 | 21.36786 | -45.81278 | 21.36830 | -45.71633 | 21.27795 | -45.71590 | 21.27751 | -45.81229 | 100 |
| | 92 | 21.36830 | -45.71633 | 21.36868 | -45.61988 | 21.27833 | -45.61950 | 21.27795 | -45.71590 | 100 |
| | 93 | 21.36868 | -45.61988 | 21.36901 | -45.52343 | 21.27866 | -45.52311 | 21.27833 | -45.61950 | 100 |
| | 94 | 21.36901 | -45.52343 | 21.36928 | -45.42697 | 21.27893 | -45.42671 | 21.27866 | -45.52311 | 100 |
| | 95 | 21.36928 | -45.42697 | 21.36950 | -45.33052 | 21.27915 | -45.33031 | 21.27893 | -45.42671 | 100 |
| | 96 | 21.36950 | -45.33052 | 21.36966 | -45.23406 | 21.27931 | -45.23391 | 21.27915 | -45.33031 | 100 |
| | 97 | 21.27751 | -45.81229 | 21.27795 | -45.71590 | 21.18760 | -45.71546 | 21.18717 | -45.81179 | 100 |
| | 98 | 21.27795 | -45.71590 | 21.27833 | -45.61950 | 21.18798 | -45.61913 | 21.18760 | -45.71546 | 100 |
| | 99 | 21.18749 | -45.74291 | 21.18788 | -45.64658 | 21.09753 | -45.64619 | 21.09714 | -45.74246 | 100 |
| | 100 | 21.09714 | -45.74246 | 21.09753 | -45.64619 | 21.00718 | -45.64580 | 21.00679 | -45.74202 | 100 |

Annex II

Map of the general location of the area under application

