

# Appendix 3B

## New issue announcement, application for quotation of additional securities and agreement

*Information or documents not available now must be given to ASX as soon as available. Information and documents given to ASX become ASX's property and may be made public.*

Introduced 01/07/96 Origin: Appendix 5 Amended 01/07/98, 01/09/99, 01/07/00, 30/09/01, 11/03/02, 01/01/03, 24/10/05, 01/08/12, 04/03/13

Name of entity

PREDICTIVE DISCOVERY LIMITED (PDI)

ABN

11 127 171 877

We (the entity) give ASX the following information.

### Part 1 - All issues

*You must complete the relevant sections (attach sheets if there is not enough space).*

- |   |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                           |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | +Class of +securities issued or to be issued                                                                                                                                                                                                  | <div>1. Fully paid Ordinary Shares (<b>Shares</b>)</div> <div>2. Quoted Options exercisable at \$0.06 expiring 30/11/19 (<b>Options</b>)</div>                                                                                                                                                                                                                                            |
| 2 | Number of +securities issued or to be issued (if known) or maximum number which may be issued                                                                                                                                                 | <div>1. Shares – 11,250,810</div> <div>2. Shares- 10,892,048</div> <div>3. Options – 11,250,810</div> <div>4. Options - 10,892,048</div>                                                                                                                                                                                                                                                  |
| 3 | Principal terms of the +securities (e.g. if options, exercise price and expiry date; if partly paid +securities, the amount outstanding and due dates for payment; if +convertible securities, the conversion price and dates for conversion) | <div>1) Fully paid ordinary shares pursuant to an 8 for 21 renounceable pro rata rights issue pursuant to a prospectus lodged with the ASX on 27 October 2017.</div> <div>2) Fully paid ordinary shares issued in placement</div> <div>3) 1 Quoted Option for each FPO share exercisable at 6 cents on or before 30 November 2019.</div> <div>4) Quoted Options issued in placement</div> |

+ See chapter 19 for defined terms.

**Appendix 3B**  
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>4 Do the <sup>+</sup>securities rank equally in all respects from the <sup>+</sup>issue date with an existing <sup>+</sup>class of quoted <sup>+</sup>securities?</p> <p>If the additional <sup>+</sup>securities do not rank equally, please state:</p> <ul style="list-style-type: none"> <li>• the date from which they do</li> <li>• the extent to which they participate for the next dividend, (in the case of a trust, distribution) or interest payment</li> <li>• the extent to which they do not rank equally, other than in relation to the next dividend, distribution or interest payment</li> </ul> | <p>Shares will rank equally with existing fully paid ordinary shares on issue</p> <p>Quoted Options are a new class of quoted securities.</p> <p>Shares issued on exercise of the Options will rank equally with fully paid ordinary shares on issue</p>                                                                               |
| <p>5 Issue price or consideration</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>1) and 2) \$0.042 per Share.</p> <p>3) and 4) The Options are free attaching options for which no additional consideration is payable.</p>                                                                                                                                                                                          |
| <p>6 Purpose of the issue<br/>(If issued as consideration for the acquisition of assets, clearly identify those assets)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>1) and 2) The Shares and Options have been issued pursuant to the Renounceable Rights Issue announced on 27 October 2017.</p> <p>3) and 4) Issue of shares pursuant to the placement made to sophisticated investors, to assist in funding the Company's exploration projects in West Africa, and for working capital purposes,</p> |
| <p>6a Is the entity an <sup>+</sup>eligible entity that has obtained security holder approval under rule 7.1A?</p> <p>If Yes, complete sections 6b – 6h <i>in relation to the <sup>+</sup>securities the subject of this Appendix 3B</i>, and comply with section 6i</p>                                                                                                                                                                                                                                                                                                                                             | <p>No</p>                                                                                                                                                                                                                                                                                                                              |
| <p>6b The date the security holder resolution under rule 7.1A was passed</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>N/A</p>                                                                                                                                                                                                                                                                                                                             |
| <p>6c Number of <sup>+</sup>securities issued without security holder approval under rule 7.1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>N/A</p>                                                                                                                                                                                                                                                                                                                             |
| <p>6d Number of <sup>+</sup>securities issued with security holder approval under rule 7.1A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>N/A</p>                                                                                                                                                                                                                                                                                                                             |

<sup>+</sup> See chapter 19 for defined terms.

|    |                                                                                                                                                                                                                                                                                                 |                    |                                                                 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|
| 6e | Number of +securities issued with security holder approval under rule 7.3, or another specific security holder approval (specify date of meeting)                                                                                                                                               | N/A                |                                                                 |
| 6f | Number of +securities issued under an exception in rule 7.2                                                                                                                                                                                                                                     | N/A                |                                                                 |
| 6g | If +securities issued under rule 7.1A, was issue price at least 75% of 15 day VWAP as calculated under rule 7.1A.3? Include the +issue date and both values. Include the source of the VWAP calculation.                                                                                        | N/A                |                                                                 |
| 6h | If +securities were issued under rule 7.1A for non-cash consideration, state date on which valuation of consideration was released to ASX Market Announcements                                                                                                                                  | N/A                |                                                                 |
| 6i | Calculate the entity's remaining issue capacity under rule 7.1 and rule 7.1A – complete Annexure 1 and release to ASX Market Announcements                                                                                                                                                      | LR 7.1: 12,003,406 |                                                                 |
| 7  | +Issue dates<br><br>Note: The issue date may be prescribed by ASX (refer to the definition of issue date in rule 19.12). For example, the issue date for a pro rata entitlement issue must comply with the applicable timetable in Appendix 7A.<br><br>Cross reference: item 33 of Appendix 3B. | 1/12/ 2017         |                                                                 |
| 8  | Number and +class of all +securities quoted on ASX (including the +securities in section 2 if applicable)                                                                                                                                                                                       | Number             | +Class                                                          |
|    |                                                                                                                                                                                                                                                                                                 | 236,142,065        | Ordinary Shares                                                 |
|    |                                                                                                                                                                                                                                                                                                 | 73,030,518         | Quoted Options exercisable at \$0.06 each and expiring 30/11/19 |

+ See chapter 19 for defined terms.

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|    |                                                                                                                       |           |                                                            |
|----|-----------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------|
| 9  | Number and +class of all +securities not quoted on ASX ( <i>including</i> the +securities in section 2 if applicable) | Number    | +Class                                                     |
|    |                                                                                                                       | 1,952,500 | Options exercisable at \$0.1805 each and expiring 29/11/18 |
|    |                                                                                                                       | 1,952,500 | Options exercisable at \$0.2578 each and expiring 29/11/19 |
|    |                                                                                                                       | 1,952,500 | Options exercisable at \$0.3867 each and expiring 29/11/20 |
| 10 | Dividend policy (in the case of a trust, distribution policy) on the increased capital (interests)                    |           |                                                            |

**Part 2 - Pro rata issue**

Not applicable – original Appendix 3B for rights issue lodged with ASX 27 October 2017

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+ See chapter 19 for defined terms.

## Part 3 - Quotation of securities

*You need only complete this section if you are applying for quotation of securities*

34 Type of <sup>+</sup>securities  
(tick one)

(a) ☒ <sup>+</sup>Securities described in Part 1

☐

(b) ☐ All other <sup>+</sup>securities

Example: restricted securities at the end of the escrowed period, partly paid securities that become fully paid, employee incentive share securities when restriction ends, securities issued on expiry or conversion of convertible securities

### Entities that have ticked box 34(a)

#### Additional securities forming a new class of securities

*Tick to indicate you are providing the information or documents*

35 ☒ If the <sup>+</sup>securities are <sup>+</sup>equity securities, the names of the 20 largest holders of the additional <sup>+</sup>securities, and the number and percentage of additional <sup>+</sup>securities held by those holders

☐

36 ☒ If the <sup>+</sup>securities are <sup>+</sup>equity securities, a distribution schedule of the additional <sup>+</sup>securities setting out the number of holders in the categories

☐

1 - 1,000

1,001 - 5,000

5,001 - 10,000

10,001 - 100,000

100,001 and over

37 ☐ A copy of any trust deed for the additional <sup>+</sup>securities

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<sup>+</sup> See chapter 19 for defined terms.

**Entities that have ticked box 34(b)**

| 38     | Number of +securities for which +quotation is sought                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |        |        |  |  |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------|--------|--|--|
| 39     | +Class of +securities for which quotation is sought                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                            |        |        |  |  |
| 40     | <p>Do the +securities rank equally in all respects from the +issue date with an existing +class of quoted +securities?</p> <p>If the additional +securities do not rank equally, please state:</p> <ul style="list-style-type: none"><li>• the date from which they do</li><li>• the extent to which they participate for the next dividend, (in the case of a trust, distribution) or interest payment</li><li>• the extent to which they do not rank equally, other than in relation to the next dividend, distribution or interest payment</li></ul> |                                                                                                                            |        |        |  |  |
| 41     | <p>Reason for request for quotation now</p> <p>Example: In the case of restricted securities, end of restriction period</p> <p>(if issued upon conversion of another +security, clearly identify that other +security)</p>                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |        |        |  |  |
| 42     | Number and +class of all +securities quoted on ASX ( <i>including</i> the +securities in clause 38)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <table border="1"><thead><tr><th>Number</th><th>+Class</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table> | Number | +Class |  |  |
| Number | +Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            |        |        |  |  |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                            |        |        |  |  |

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+ See chapter 19 for defined terms.

**Quotation agreement**

- 1 +Quotation of our additional +securities is in ASX's absolute discretion. ASX may quote the +securities on any conditions it decides.
- 2 We warrant the following to ASX.
  - The issue of the +securities to be quoted complies with the law and is not for an illegal purpose.
  - There is no reason why those +securities should not be granted +quotation.
  - An offer of the +securities for sale within 12 months after their issue will not require disclosure under section 707(3) or section 1012C(6) of the Corporations Act.  
Note: An entity may need to obtain appropriate warranties from subscribers for the securities in order to be able to give this warranty
  - Section 724 or section 1016E of the Corporations Act does not apply to any applications received by us in relation to any +securities to be quoted and that no-one has any right to return any +securities to be quoted under sections 737, 738 or 1016F of the Corporations Act at the time that we request that the +securities be quoted.
  - ~~If we are a trust, we warrant that no person has the right to return the +securities to be quoted under section 1019B of the Corporations Act at the time that we request that the +securities be quoted.~~
- 3 We will indemnify ASX to the fullest extent permitted by law in respect of any claim, action or expense arising from or connected with any breach of the warranties in this agreement.
- 4 We give ASX the information and documents required by this form. If any information or document is not available now, we will give it to ASX before +quotation of the +securities begins. We acknowledge that ASX is relying on the information and documents. We warrant that they are (will be) true and complete.



Sign here:

Date: 1 December 2017

(Company secretary)

Print name:

Eric Moore

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+ See chapter 19 for defined terms.

## Appendix 3B – Annexure 1

### Calculation of placement capacity under rule 7.1 and rule 7.1A for eligible entities

Introduced 01/08/12 Amended 04/03/13

#### Part 1

| Rule 7.1 – Issues exceeding 15% of capital                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Step 1: Calculate “A”, the base figure from which the placement capacity is calculated</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |
| <b>Insert</b> number of fully paid +ordinary securities on issue 12 months before the +issue date or date of agreement to issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,631,113,686                                                                     |
| <b>Add</b> the following: <ul style="list-style-type: none"> <li>Number of fully paid +ordinary securities issued in that 12 month period under an exception in rule 7.2</li> <li>Number of fully paid +ordinary securities issued in that 12 month period with shareholder approval</li> <li>Number of partly paid +ordinary securities that became fully paid in that 12 month period</li> </ul> <p><i>Note:</i></p> <ul style="list-style-type: none"> <li>Include only ordinary securities here – other classes of equity securities cannot be added</li> <li>Include here (if applicable) the securities the subject of the Appendix 3B to which this form is annexed</li> <li>It may be useful to set out issues of securities on different dates as separate line items</li> </ul> | 50,887,660 (Rights Issue 28 Nov 2017)<br><br>11,250,810 (Rights Issue 1 Dec 2017) |
| <b>Subtract</b> the number of fully paid +ordinary securities cancelled during that 12 month period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,468,002,139 (Cancelled on Consolidation)                                        |
| <b>“A”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 225,250,017                                                                       |

+ See chapter 19 for defined terms.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Step 2: Calculate 15% of “A”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 |
| <b>“B”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.15<br><i>[Note: this value cannot be changed]</i>                                             |
| <b>Multiply “A” by 0.15</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 33,787,502                                                                                      |
| <b>Step 3: Calculate “C”, the amount of placement capacity under rule 7.1 that has already been used</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                 |
| <p><b>Insert</b> number of +equity securities issued or agreed to be issued in that 12 month period <i>not counting</i> those issued:</p> <ul style="list-style-type: none"> <li>• Under an exception in rule 7.2</li> <li>• Under rule 7.1A</li> <li>• With security holder approval under rule 7.1 or rule 7.4</li> </ul> <p><i>Note:</i></p> <ul style="list-style-type: none"> <li>• <i>This applies to equity securities, unless specifically excluded – not just ordinary securities</i></li> <li>• <i>Include here (if applicable) the securities the subject of the Appendix 3B to which this form is annexed</i></li> <li>• <i>It may be useful to set out issues of securities on different dates as separate line items</i></li> </ul> | <p>Shares- 10,892,048 (1 Dec 17)</p> <p>Options- 10,892,048 (1 Dec 17)</p>                      |
| <b>“C”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>21,784,096</b>                                                                               |
| <b>Step 4: Subtract “C” from [“A” x “B”] to calculate remaining placement capacity under rule 7.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                 |
| <p><b>“A” x 0.15</b></p> <p><i>Note: number must be same as shown in Step 2</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 33,787,502                                                                                      |
| <p><b>Subtract “C”</b></p> <p><i>Note: number must be same as shown in Step 3</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21,784,096                                                                                      |
| <b>Total [“A” x 0.15] – “C”</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>12,003,406</p> <p><i>[Note: this is the remaining placement capacity under rule 7.1]</i></p> |

+ See chapter 19 for defined terms.