

**Project title**: Effects on the ethogram of two predator species (Red Dhole & Malayan Tiger) on the use of animal-based olfactory enrichment

**Name of applicant**: Noor Najilah binti Anifah

**Mandai Precinct Research Collaboration Proposal**

**About WRS**

Wildlife Reserves Singapore Pte Ltd (“**WRS**”) is the parent company of award-winning attractions Jurong Bird Park, Night Safari, Singapore Zoo and the River Safari (collectively, the “**WRS Parks**”). The WRS Parks strive to be world-class leisure attractions, providing excellent exhibits of animals presented in their natural environment for the purposes of conservation, research, education and recreation.

WRS is proud to partner with many local and international institutions including scientific institutions, universities, government bodies, non-government organisations, other zoological institutions as well as nature interest groups. Through such evidence-based collaborations, WRS has contributed key scientific knowledge that is relevant to wildlife and wildlife conservation and management within Singapore, the Southeast Asian region and beyond.

Research at WRS must benefit either Mandai’s Living Collection (benefit the husbandry, health and care of the collection), Outreach and Education (research that is largely social science-based regarding visitor attitudes towards conservation and sustainable lifestyles, communication of conservation goals and environmental education) or Conservation Research, Wildlife Welfare and Care (any research that can support ex-situ or in-situ conservation). Within each of these three domains, there are a number of subjects that a specific research project may fall into:

(1) Mandai’s Living Collection Research (Animal Welfare & Care)

* Behaviour
* Nutrition
* Physical health
* Physical environment
* Mental welfare

(2) Mandai’s Conservation, Wildlife Welfare and Care Research

* Conservation-linked breeding
* Conservation translocations (including rescue, rehabilitation and release)
* Conservation genetics and biomaterials management (e.g. biosurveillance)
* Sustainability and environmental monitoring and management
* Mandai habitat enhancement and management

(3) Outreach and Education

* Visitor experience
* Human animal interactions
* Behaviour change

**In order to grow knowledge in these areas of interest, WRS’s aims are:**

* To conduct research that can help develop better tools and strategies for the management of captive wildlife populations and that will benefit conservation strategy planning for species in their native habitats;
* To conduct research that contributes information on local wildlife, and thus guide conservation or management strategies in Singapore
* To collaborate with like-minded organisations such as other zoological institutions, non-governmental organisations, government agencies, academic institutions and nature interest groups to ensure the best possible conservation outcomes for the species or environment of concern;
* To build local and regional conservation capacity and knowledge, as well as facilitate information-sharing initiatives through the publication of scientific reports and conference presentations

**In your proposal please ensure the following (where appropriate) are addressed:**

1. Project is relevant to WRS research objectives;
2. Project is feasible, scientifically valid and has high probability of success;
3. Project has conservation impact;
4. Project does not compromise animal welfare
5. Project funding is well-justified (if applicable)
6. Project contributes to capacity-building, education, and outreach, and takes into account human considerations;
7. Other considerations that you think might be relevant.

***Preference is given to projects related to species found in Singapore, Southeast Asian region, as well as those represented in the WRS animal collection and through which, a direct in-situ or ex-situ link can be accomplished.***

**How to apply:**

Submit a softcopy proposal to Vanessa Lee (Research Panel Secretariat) at [hsiangling.lee@wrs.com.sg](mailto:hsiangling.lee@wrs.com.sg) following the format outlined.

**Instructions:**

1. The applicant should fill out this form including all of the applicable appendices;
2. The applicant must read and sign off on Annex 1 of this document;
3. The applicant must provide all the required supporting documents (e.g. curriculum vitae, applicable permits);
4. The application should be typewritten in English in 12pt Courier or Times New Roman font;
5. Please strictly follow the instructions on the minimum word count and/or number of pages; and
6. For progress or final reports please use Appendix.

WRS reserves the right to disregard applications that do not conform to the above instructions or such other instructions which may be given by WRS from time to time.

WRS may request for additional information from any applicant.

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| **Part I – Overview** | |
| **a. Title of project:** Effects on the ethogram of two predator species (Red Dhole & Malayan Tiger) on the use of animal-based olfactory enrichment | |
| **b. Project location:** Night Safari | |
| **c. Personal data** | |
| **Name in full**  Noor Najilah binti Anifah | **Institutional affiliation**  Small Mammals 2, Night Safari, Wildlife Reserves Singapore |
| **Nationality**  Malaysian | **Contact Information (email address, telephone number)**  Najilah.anifah@wrs.com.sg |
| **Expected duration of project (with start and end dates):**  October 2020 – March 2022  *If you are a WRS staff member, please go to Part II.*  *If you are not a WRS staff member, go to Part III.* | |

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| **Part II – For WRS staff members only** |
| **Have you obtained permission from your supervisor?** Yes/~~No~~  **Name and designation of supervisor:** Cecilia Tang | Assistant Curator, Zoology  *Please go to Part IV* |

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| **Part III – For non-WRS applicants** |
| *Is this your first time applying to WRS for research collaboration?*  *Yes/No [if the answer is “No”, please go to Part IV]*  *If this is your first time applying to WRS for research collaboration, we will require you to provide the following:*   * *curriculum vitae - including institution affiliation and list of academic publications* * *two referees and their contact details*  |  |  | | --- | --- | | Referee #1 | | | Name | Institution | | E-mail address | Contact number | | Referee #2 | | | Name | Institution | | E-mail address | Contact number |   *For student applicants, also kindly provide:*   * ***proof of affiliation*** *in the form of an* ***endorsed letter*** *from your educational or research institution* * ***curriculum vitae of the Principal Investigator/Supervisor*** *(if he/she has not formerly successfully applied for research funding/collaboration with WRS)* |

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| **Part IV – Project details** |
| **a. Summary of proposed project:** *At least 300 words*  Malayan Tiger (*Panthera tigris jacksoni)*, is one of the six extant subspecies of Tigers. At present, wild population estimates within the Malaysian Peninsula entail 80 – 120 mature individuals with a declining trend (IUCN, 2015), rightfully earning the classification of being Critically Endangered by the IUCN’s Red List (2015) and being listed under Appendix I of CITES (2021). Due to the relatively recent re-classification of the Malayan Tiger subspecies (Luo et al., 2004) and small wild population size, the bulk of contemporary knowledge on the *P.t. jacksoni*subspecies’ ecology is derived from studies conducted on the subspecies found in India, Nepal and Russia.  The Red Dholes *(Cuon alpinus),* are known by a variety of names such as the Asiatic Wild Dogs, Whistling Dogs, Howling Dogs, and many more. It is classified as being Endangered by IUCN’s Red List (2015), and is listed under Appendix II of CITES (2021). Due to the elusive nature of wild Dholes, much remains to be learnt for their natural ecology. At present wild population estimates range between 949 – 2,215 mature individuals with a noticeable declining trend (IUCN, 2015). These populations are distributed from China and India, right through the Malaysian Peninsula, down to Indonesia (IUCN, 2015).  It has been noted that Red Dholes are capable of hounding and attacking tigers as a pack, when they find themselves threatened. There had also been instances where the tigers end up retreating and seeking refuge in the trees when confronted (Tigers-World, 2014). In the upcoming Rainforest Parks, these two species, *P. t. jacksoni* and*Cuon alpinus,* will be time-sharing the same flex. Since there is little to no studies conducted on the relationship between predators in the Carnivora order, a study on their behaviour based off olfactory stimuli will be conducted to understand the compatibility of exhibiting and housing them in close proximity to one another. This would aid in the decision-making processes regarding the operations of the new park, and the well-being of the animals. |
| **b. Details of project:** *3-5 pages (excl. pictures) stating* *Goals and Objectives, Methods, Expected results and conservation out-puts. To clearly address the support criteria above.*  **Objective**  To study the behaviour on olfactory effects between Malayan Tigers and Red Dholes, since they will be time-sharing the same exhibit at the new Rainforest Parks.  **Methods**  Sampling methods are independent for each species. Focal sampling and Continuous recording (All-Time Occurrence) will be utilised for 1.0 Malayan Tiger whilst behaviour-specific interval sampling will be applied for the 6.0 Red Dhole group, as it is more suitable for pack animals. Observations will be conducted via recording devices placed at their enclosures (CCTV for Malayan Tiger and Go Pro set up at Red Dhole enclosure) and based on the ethogram prepared respectively.  There will be a total of three stages for data collection, Baseline, Control (items without either species scent), and Treatment. Data will be collected over 30 days for each stage (*n = 30).*Observations will be conducted for a total of 10 minutes, with data being recorded anytime between 3pm to 6pm. Frames without keepers' presence are selected, and the behaviours are observed and collected based on the data sheets prepared accordingly (Appendix 1).  For the Red Dholes ethograms, the interval is set at every 30 seconds across the 10-minute duration. This would provide a daily aggregate of 20 data sets for each dhole, culminating in a daily total of 120 data sets for the entire group (6.0). As the only Tiger being used from our collection for this study is housed solitarily, all-time occurrence sampling will be conducted to ensure higher accuracy.  Three treatments will be used in the study; substrates, objects and fecal. Each treatment is explained as follow:  There are a total of three substrates used as listed below:   1. Straw 2. Sand 3. Leaves     Each substrate will be placed for a total of 10 days in semi-randomized order to ensure the workflow will not be overly affected, whist maintaining no biases. A total of 10 samples will be used for each substrate type, deriving a total of 30 samples each for both the control (new substrates) and treatment (swapped substrates) stages. The control and treatment stages will be conducted concurrently (one day after the other), so as to maintain as much of the scents before introduction to the subjects.  Fresh Straw and Sand will be procured for the control stage to ensure there are no underlying scents from either species. Leaves can be collected from areas that would not have scents from either species.  Three objects will be used:   1. Boomer ball (wash beforehand if used before) 2. Small logs/branches (new) 3. Branches from herbivores   Each object will be placed for a total of 10 days in semi-randomized order to ensure the workflow will not be overly affected, whist maintaining no biases. A total of 10 samples will be used for each object type, deriving a total of 30 samples each for both the control (new object) and treatment (swapped object) stages. The control and treatment stages will be conducted concurrently (one day after the other), so as to maintain as much of the scents before introduction to the subjects.  The fecal matter collected will be sent for parasite before placed in the enclosures. Ideally, we would like to swap fecal matter every day. The observation and data collection will be done in 30 days. Baseline data will be used as control for this particular treatment.  Statistical analysis options will be revisited once the baseline data is in, tentatively ANOVA will be used for this project. The study will take approximately 4-5 months for data collection, depending on the section manpower, workload and workflow.  **Expected Results**  Expected outcomes would include the increased understanding of the nature of these two species and their compatibility, as well as the ability to better address their welfare needs in the new Rainforest Park. In terms of species’ behaviour, we expect there to be a good amount of interaction with the substrates in the initial stages for the control and treatment stages. We also expect the levels of interaction with the substrates to slowly taper off as the animals become conditioned to one another’s scents.  With Tigers being the Apex predators in any given environment they are found in, we do not expect to see any signs of distress from the Tiger used for this study. With the Red Dholes being placed slightly lower than the Tigers in the Trophic Levels, some signs of distress are to be anticipated. However, with the lack of visual and auditory contact between the two species present during the study, we expect there to be minimal to no signs of distress from the Dholes. |

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| **Part V: Nature of proposal** *(Please tick in the box and fill in the required sections below)* |
| **Research Project Funding** (WRS staff projects only): Complete **Section A** below |
| **Research collaboration involving WRS collection or visitors:** Complete **Section B** below |
| **Biomaterial Samples:** Complete **Section C** below. *Note: Biomaterial requests must be submitted a minimum of 3 months in advance.* |
| **Others:** Internal Section Study |

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| **Part VI: Ethical considerations and permits** |
| **How will this project affect the welfare of any live animal(s) or human(s), and how will these effects be mitigated?**  The project would not affect the welfare of any live animal or human |
| **Has the project been assessed and approved by your institution’s human or animal ethics board (e.g. institutional IACUC, AAALAC, AWEC)? Please submit copies of any such letters of approval.** |
| **Does your project require any other permits from local and/or international authorities/agencies? What permits are these, and have you obtained them? Please submit copies of any such permits.** |

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| **Part VII: Acknowledgment and communication** |
| **a. How will WRS be acknowledged:**  *i.e. logo placement, publication, co-authorship, signage at project site etc.*  **b. What materials can be provided to WRS to communicate on project activities and results:**  *i.e. scientific publication, education materials, posters, presentation to WRS staff or public etc.* |

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| **Part VIII: Conservation and research impact** |
| *Describe in not more than 500 words the direct impact this project has on the enhancement of health, and welfare of wildlife species under human care and/or the improvement of the long-term survivability of wildlife species in their native habitats*  Malayan Tigers and Red Dholes are amongst the top predators in their food chain. As both species are native to South-east Asia, they hunt similar types of prey (e.g. Samba Deers, Wild Pigs, etc…). There are even news reports of predation between the two species in the wild due to the competition for food. Unexpectedly, a pack of dholes are capable of bringing down a single tiger, albeit an old or physically incapacitated one. Despite the proximity that both species have to one another, very little to no studies have been conducted on the relationship between Malayan Tigers and Red Dholes in the wild or captivity. As such, findings from this study can contribute to understanding and filling the knowledge gaps pertaining to the ecology of both species. This study would also aid in increase our knowledge on their compatibility and assess if there are any potential welfare issues that could arise from both species sharing the same flex or being housed in close proximity to each other. |

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| **Section A: Research Project Funding (for staff projects only)** |
| **Budget information** |
| **Total budget needed for project:** |
| **Amount requested from WRS:** |
| **Are you seeking funding or collaboration from any other organization or institution for this project? If so, please declare it here:** |
| **Itemized budget and justification for funds requested from WRS**  ***Example:***   |  |  |  | | --- | --- | --- | | ***Item*** | ***Quantity*** | ***Cost*** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | | ***Total*** |  |  | |

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| **Section B: Research collaboration involving WRS’s collection or visitors** |
| *Please be very specific with regards to what is needed from WRS (i.e. equipment, manpower, facilities, quantities, access to collaterals, frequencies etc.)* |

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| **Section C: Biomaterial request** |
| *Note: Requests for biomaterials collection needs to be submitted a minimum of 3 months in advance.*  **Sample details**   |  |  | | --- | --- | | Sample type: |  | | Quantity: |  | | Frequency of collection: |  | | Collection timeline: |  | | Expected outcome: |  | | Potential commercial application: |  |   **Collection protocol**   |  |  | | --- | --- | | Extraction/collection method: |  | | Specialized equipment/tools required: |  | | Storage containers/buffers: |  | | Storage condition/maximum storage duration: |  | | Please state whether equipment/tools/storage containers/buffers will be provided by or requested from WRS: |  | | Delivery/pickup method: |  |   **Shipment protocol (if applicable)**   |  |  | | --- | --- | | Package type: |  | | Packaging medium: |  | | Shipping medium: |  | | Please state whether shipment costs will be covered by or requested from WRS: |  | |

*For administrative purposes:*

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| **Research Panel Member** | **Approval (Signature OR Email)** |
| Dr. Shangzhe Xie, Assistant Vice President, CRV |  |
| Dr. Nathaniel Ng, Manager, Mandai Nature |  |

*For financial support approval:*

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| **Project funded** | **Research Panel Member** | **Approval (Signature OR Email)** |
| Yes / No | Dr. Sonja Luz, Vice President, CRV |  |

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| **Annex I: Terms and conditions of Conservation & Research Assistance**/ **Applicant Declaration**  *(Any assistance by WRS extended to the recipient shall be governed by the following terms and conditions)* |
| **1. Proposal approval procedure**   1. All incoming research proposals will be circulated to WRS’s Research Advisory Panel and Heads of Department (where necessary) for review. 2. As such, applicants should still expect minimum waiting times of two months for proposals that do not require funding, and three months for proposals that request for funding. Additionally, longer waiting times can be expected if there are revisions.   **2. Use of funds or other forms of assistance**   1. Monetary funds or other forms of aid must be used for the agreed purpose only as described in the project proposal. 2. WRS does not provide support of institutional indirect costs such as overhead component and GST (goods and services tax). 3. Funds must be managed by the researcher or project manager named in the proposal. 4. Detailed accounts must be kept and made available for inspection at WRS request. 5. WRS must be notified of any changes in funding requirements, staff and equipment, length of study, scope of the project etc. 6. The researcher or project manager must provide adequate contact details at all times. 7. If biomaterials are requested from animals from the WRS collection, WRS reserves the right and discretion to control or decide on how the results are being shared publicly. In the event of any public sharing or publication plan in relation to such samples, the party wishes to publish or share publicly, shall notify and seek WRS’ prior written consent. 8. Funds will be made available via direct transfer (from one bank account to another). 9. Funds will be transferred progressively at pre-agreed intervals. 10. WRS must have acknowledgement of receipt of all funds.   **3. Data and material ownership**   1. Any materials that are provided by WRS to research collaborators for use in an approved research project:    * 1. may be used by the recipient solely to perform the activities assigned to the recipient party as stipulated in the project proposal;      2. may be used only by the project’s Principal Investigator or individuals under his or her authority;      3. may not be sold or otherwise transferred or provided to any third party;      4. may not be used for any other purpose, including without limitation to provide any service, or for any research or collaboration other than the project; and      5. except as may be expressly set forth in the project proposal, may not be re-used (in the case of consumable materials), disassembled, reverse-engineered, decompiled, reverse-assembled, and/or separated/extracted /isolated from other components with which it was transferred, or analyzed to determine the methods of operation or to reveal proprietary properties.      6. Upon WRS’s request, the research collaborator will return any materials provided by WRS which have not already been used up or discarded. If permission is granted by WRS for the collaborator(s) to discard any used or non-used samples, this must be done in accordance to the relevant prevailing legislation on disposal (e.g. biomaterial waste disposal guidelines).      7. In the event that a collaborator desires to amend the project resulting in a need to violate any of the above stipulations, the collaborator is required to submit a Project Amendment Form and obtain approval from WRS. 2. Each collaborator receiving samples from WRS agrees that it will obtain all necessary approvals, permissions, and funds sufficient for their use of such samples in the project, and the eventual release, dissemination, and publication of project results. This includes having all applicable permits or permissions indicating compliance with the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), as well as the necessary government authority permissions required for the transport of the requested Materials out of WRS premises and/or Singapore. 3. Unless otherwise stipulated in the approved project proposal or memorandum of understanding, WRS holds joint ownership of all research data generated or obtained from WRS resources (including collection animals, materials, manpower, laboratory equipment and resources etc.). 4. WRS must be notified and consulted for permission before any data or information derived from WRS resources is disseminated or used in any commercial or non-commercial way. 5. For all potential publications and/or disclosures of research results or information obtained through use of WRS resources, WRS must be furnished with copies in advance of the public disclosure or the submission of any proposed publication to a journal, editor, or other third party. WRS shall, within fifteen (15) working days of receipt of the proposed publication or public disclosure, notify the collaborator in writing of its objections. 6. In the unlikely event of objections from WRS, WRS reserves the right to negotiate with the applicants on how to best proceed without compromising scientific integrity as well as professional relationships between WRS, the applicants, and any other third party which may be affected by the publication/disclosure. 7. For published research, subject to the rights of the publisher, each party may reproduce and use any publication or other public disclosure for marketing and other academic and commercial purposes after publication.   **4. Progress reports and use of results**   1. Updates and current results of the project are to be sent to WRS every six (6) months (from the commencement of project) for the entire duration of the project (for progress reports please use the format provided in the appendix). 2. For WRS staff applicants, these reports can be in the form of a written report, presentation, or poster, as decided by the applicant, his/her supervisor, and the associated Liaison from the Research Advisory Panel. 3. A copy of the final manuscript is to be made available to WRS for retention (for final report please use the format provided in the appendix). 4. The publication of all reports, articles, etc. relating to the funded project must include acknowledgement of funding or aid, partial or in full, by WRS. Co-authorship of any WRS staff for papers to be published in peer-reviewed journals (if appropriate), will be reviewed and agreed at the discretion of WRS’ Management including Head of Conservation & Research. 5. The results of the study or project may be made available to the public, international zoo and/or scientific community. 6. The final manuscript may be made available to the public through the WRS website or other medium with due acknowledgement to the researcher. 7. The researcher or project representative may be requested to give one or more presentations to WRS and/or members of relevant community. 8. Unless stated otherwise and subject always to clause 3.8 below, the ownership of the works, and responsibility for its identification, protection and management vests with the researcher. The researcher hereby grants to WRS, an irrevocable, non-exclusive, royalty-free right and license in all countries of the world and in perpetuity, to use, adapt and/or exploit the works for any purpose and in any way it sees fit including enabling WRS to use, archive, preserve and disseminate the study. 9. The researcher is to notify WRS of any commercial exploitation arising from the results of the funded project, in which case, a different set of conditions may be subjected, including without limitation conditions setting out joint ownership of Intellectual Property Rights between the researcher and WRS and/or the percentage in the proceeds of the commercial exploitation which WRS is to be entitled to.   **5. General**   * 1. WRS may cease funding immediately without further obligation in the event any of the conditions herein have not been complied with or remedied within thirty (30) calendar days of being requested to do so. If termination of funding occurs, WRS reserves the right to recover funds in part or full and/or all rights in any works created by the researcher as a result of the funding.   2. WRS reserves the right to amend these conditions at its absolute discretion. Any change will be notified in writing to the researcher and/or on WRS’ website.   3. These conditions shall be governed by the laws of Singapore. All disputes or differences relating to the assistance and these conditions will be subject to the exclusive jurisdiction of the courts of Singapore.   4. WRS reserves the right to immediately terminate any agreement that it may have with you at any point in time in the event that you, your organisation(s) and/or any other person, programme or initiative connected to you or your organisation(s) becomes associated with any media reports (traditional, social or otherwise) that may unfavourably impact WRS’ reputation by its association with you, your organisation(s) and/or any other person, programme or initiative connected to you or your organisation(s). Prior to serving termination notice, WRS shall at the earliest opportunity discuss with you its concerns with a view to address the best interests of WRS.   5. In the event that more than 10% of the samples in a research project comes from WRS, the option to contribute to the publication as an author must be offered to at least one WRS staff member.   **6. Collection of Personal Data**   * 1. WRS and/or its subsidiaries, affiliated and associated companies recognize the importance of an individual privacy and Personal Data. WRS’ data protection policy found on WRS’ website ("**Data Protection Policy**") outlines how WRS manages the Personal Data which is subject to Personal Data Protection Act 2012 in Singapore (the “**Act**”). By submitting information to us, communicating with us, or signing up for any products and/or services offered by WRS, you agree and consent for WRS collecting, using, disclosing and sharing amongst ourselves your Personal Data, and disclosing such Personal Data to the WRS' related corporations, indirect parent companies, authorised service providers and relevant third parties in the manner set forth in the Data Protection Policy. For more information, please refer to our Data Protection Policy at <http://www.wrs.com.sg/policies-data-protection.html>.   2. “**Personal Data**” shall bear the meaning given to it by the Act.   3. We may collect, use and disclose your Personal Data for any or all of the following purposes:      1. performing obligations in the course of or in connection with our provision of the goods and/or services requested by you;      2. verifying your identity;      3. responding to, handling, and processing queries, requests, applications, complaints, and feedback from you;      4. managing your relationship with us;      5. processing payment or credit transactions;      6. complying with any applicable laws, regulations, codes of practice, guidelines, or rules, or to assist in law enforcement and investigations conducted by any governmental and/or regulatory authority;      7. any other purpose for which you have provided the information;      8. transmitting to any unaffiliated third parties including our third-party service providers and agents, and relevant governmental and/or regulatory authorities, whether in Singapore or abroad, for the aforementioned purposes; and      9. any other incidental purposes related to or in connection with the above.   4. Withdrawing your consent      1. The consent that you provide for the collection, use and disclosure of your Personal Data will remain valid until such time it is being withdrawn by you in writing. You may withdraw consent and request us to stop using and/or disclosing your Personal Data for any or all of the purposes listed above by submitting your request in writing or via email to our Data Protection Officer at wrs.dpo@wrs.com.sg.      2. Upon receipt of your written request to withdraw your consent, we may require reasonable time (depending on the complexity of the request and its impact on our relationship with you) for your request to be processed and for us to notify you of the consequences of us acceding to the same, including any legal consequences which may affect your rights and liabilities to us. In general, we shall seek to process your request within fifteen (15) business days of receiving it.      3. Whilst we respect your decision to withdraw your consent and have every intention to honour your decision, please note that depending on the nature and scope of your request, we may not be in a position to continue providing our goods and/or services to you and we shall, in such circumstances, notify you before completing the processing of your request. Should you decide to cancel your withdrawal of consent, please inform us in writing within five (5) business days of our notification.   5. Our reliance on you      1. We generally rely on Personal Data provided by you. In order to ensure that your Personal Data is current, complete and accurate, please update us if there are changes to your Personal Data by informing our Data Protection Officer in writing or via email at wrs.dpo@wrs.com.sg.   **Acceptance of conditions of assistance from WRS**  I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, having requested assistance from the Wildlife Reserves Singapore Pte Ltd (WRS) for a research project as set out in this application documents, have read and accept the conditions for provision of assistance from WRS, and agree to comply with them.  Signature:    Name:  Date: |