



YAYASAN BADAK INDONESIA

PROGRAMMATIC REPORT PREPARATION (PRE-CONSTRUCTION) PHASE OF EXPANDING THE SUMATRAN RHINO SANCTUARY (FACILITIES & INFRASTRUCTURES)

Grant by:
International Rhino Foundation

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Introduction:

Two-horned hairy rhinos have lived on Earth for 20 million years. The latest, smallest and last form of this rhino, known as the Sumatran rhinoceros, was once widespread throughout South-east Asia. Sumatran rhinos have been in terminal decline since the 1990s and their numbers have reduced to around 100 individuals (SRCS, 2013). Numbers are now so low that we may see the rhino finally vanish in the coming decade if we do not act fast and massively now.

Essence of the problem is there are only a few breeding females that also applies to wild Sumatran rhinos. Prevention of poaching is the most necessary to stop the decline of this species but now considered as insufficient approach. The species may go extinct even if all poaching be stopped, therefore conservation measure that now need to be put in place is a program that could significantly boost rhino birth in captive conditions.

The Sumatran rhino receives much less attention than other endangered big mammals, and it seems that it would be convenient for everyone to let it slide to extinction. It drives to a basic remaining question: do we give up and let the species go extinct, or have one last try to boost production of rhino babies? There are small groups of dedicated people willing to try.

Yayasan Badak Indonesia (YABI) is a dedicated organization to the conservation of the rhinos in Indonesia namely Javan rhinoceros and Sumatran rhinoceros. Through its vision to ensure continuous living populations of Javan and Sumatran rhinoceros in a safe and sustainable habitat, this organization with a full support of its partner the IRF, has been actively participating conservation efforts of the rhinos through population and habitat protection and monitoring, and breeding improvement of captived rhinos in an in-situ managed breeding facility designated as a Sumatran Rhino Sanctuary (SRS). The vision of SRS is to produce Sumatran rhino babies as many as possible within a save environment.

SRS encompasses 100 ha (247 acres) within the Way Kambas National Park and occupied by 7 individuals of Sumatran rhinos including 2 new born in 2012 and 2016, it is perceived insufficient to accomodate the existing population. Moreover, with this small population, SRS has low levels of genetic variation and all worry that will lead to inbreeding depression. Therefore, it needs to expand its space to harbor increase of rhinos and addition of new bloods to improve genetic diversity, to prevent inbreeding. In turn to produce offspring that are resilient against disease and environmental changes.

A Captive Sumatran Rhinoceros Population Modelling by Andrea Putnam, PhD. of San Diego Zoo in 2013, summarized that given the reproductive problems seen in the current captive Sumatran rhinoceros population (SRS & BORA), there is an 85%-98% probability that the captive population will go extinct in 50 years if no additional wild-caught animals are brought into captivity. This is true regardless of whether the population is managed as 2 separate populations with occasional transfers or one globally managed population with no impediment to transfer.

To accomodate the existing population and upcoming rhino new blood from outside, SRS need to be expanded both its facilities and infrastructure. And funding

sustainability should be established not only for the expanding the sanctuary but also the rhino management thereafter.

The International Rhino Foundation is ready to provide resources to YABI for the project entitled “Expanding the Sumatran Rhino Sanctuary” with the expectation that YABI will continue to provide substantial benefits to rhino conservation.

Goals and Objectives:

The development plan of SRS facilities expansion in WKNP is required upon consideration of Global Management and Propagation Board (GMPB) Technical Committee in 2015 as well as the Management Plan of WKNP 2006 – 2025, where as the goal of expansion is to develop the sanctuary management in harmony with surrounding environment and to provide space to accomodate more incoming rhinos.

With the support from the IRF, YABI could achieve the goal by conducting activities towards the objectives as follows:

1. Program Planning, Proposal Development, Coordination.
2. Socialization.
3. Detailed Engineering Design (DED) development.
4. Construction.
5. Monitoring and Evaluation.

Activities and Results:

1. Program Planning, Proposal Development, Preliminary Survey

Program planning has been initiated through long and intensive communication with the stakeholders especially Directorate General of Conservation of Natural Resources Environment (KSDAE) and Way Kambas National Park (WKNP) authorities. The correspondences are listed as below:

- a. Letter from the Directorate of Biodiversity Conservation (KKH) of KSDAE No. : S.933/KKH-2/2015 dated on 12 November 2015 concerning Establishment of the SRS in Way Kambas National Park.
Content: to notify that the letter of decree of DG KSDAE No.: SK.249/KSDAE-KKH/2015 dated on 3 November 2015 concerning the establishment of the SRS as one of sanctuaries to increase the population of one of the 25 endangered species priority including the Sumatran rhinoceros.
- b. Letter from the Chairman of YABI No.: 261/K-Pengurus/YABI/XII/2015 dated 7th. December 2015 concerning Establishment of the SRS in WKNP.
Content: to express gratitude on the issue of the letter of decree of DG KSDAE No.: SK.249/KSDAE-KKH/2015 dated 3rd. November 2015 and will try hard to improve the breeding of the Sumatran rhino in SRS.
- c. Letter from the Chairman of YABI No.: 112/K-Pengurus/YABI/VI/2016 dated 8th. June 2016 concerning Request Permit To Expand the SRS.

Content: To propose a permit to carry out construction of the SRS expansion facilities as an effort to accommodate and accelerate increase of rhino number in a designated sanctuary area within WKNP of 9.000 ha.

- d. Letter from the Chairman of YABI No.:142/K-Pengurus/YABI/VII/2016 dated 21st. July 2016 concerning Request for the Recommendation Permit for the Expansion of the SRS facilities.

Content: Request to issue recommendation letter from the Director of WKNP for construction of the expansion of SRS facilities as further concern (input) for the DG of KSDAE.

- e. Letter from the Director of WKNP No.: S.738/BTNWK-1/2016 dated on 29 July 2016 concerning Recommendation Permit for the Expansion of SRS Facilities.

Content: Recommendation granted by the Director of WKNP for the expand of the SRS facilities.

- f. Letter from the Chairman of YABI No.:145/K-Pengurus/YABI/VIII/2016 dated 2nd.August 2016 concerning Request for Principle Permit of the Expanding the SRS facilities.

Content: Request to the DG of KSDAE to granted principle permit for construction to expand SRS facilities at the same time to provide the proposal and notification of donor capability to provide resources for SRS facilities expansion through the IRF FY 2016 – 2017.

- g. Letter from the Director KKH– KSDAE No.: UN.214/KKH/AJ/KSA.2/8/2016 dated 16th.August 2016 concerning Invitation to discuss expansion proposal of SRS facilities in WKNP.

Serial meetings and discussion have been held among key partners in order to prepared all requirements needed for expanding the SRS facilities. The meetings were:

Date	Agenda	Photos
July 29, 2016	Meeting with the DG of KSDAE to deliver letter of recommendation from Director of WKNP and proposal of expanding SRS facilities and infrastructure.	
August 4, 2016	Further meeting with the DG of KSDAE. Requesting for principle permit for Expanding the SRS facilities and infrastructures.	
August 19, 2016	Signing agreement with donor for expanding the SRS facilities and infrastructures. The agreement signed by Ms. Gina M. Pereira (Founder and CEO of Dana Philanthropy), Ms. Susie Ellis (IRF), and Mr. Widodo S. Ramono (YABI).	

August 25, 2016	Expose the proposal of expanding the SRS facilities and infrastructures at the KKH meeting room. Significant results of the meeting: 1) DG of KSDAE will follow-up to issuance of approval for expanding the SRS facilities 2) YABI and WKNP will form field technical assesment team to draw up design engineering.	
September 24, 2016	Meeting with field technical team in SRS to discuss plan preparations of expanding the SRS facilities and infrastructures.	
October 13, 2016	Consultative meeting with the Center for Forest and Environment Engineering (CFEE) of the Secretary General of the Ministry of Environment and Forestry. The purpose of the meeting is to seek references technical framework of detailed engineering design (DED) and Environmental Impact Assesment (EIA). CFEE provided technical advice as such: - EIA is not required for expanding the SRS since there will be no significant impact of environment changes due to the activity. The expanding construction is far away from residential areas so there will be no pollution offended the community. - There's a needa decree to establishan expert team for DED drafting, technical preparation, expert team to prepare a standard of technical specifications to build roads as issued by the Director of WKNP as the initiator of these activities. - The size levels and composition of the teams should be associated with the type and time of work, and also availability of funds.	
November 7, 2016	Meeting with the Head of Center for Forest and Environment Engineering to follow-up the letter from WKNP No. S.105/BTNWK-1/2016 and the results of field visits of CFEE to WKNP. This meeting was held to discuss about	

	technical manufacturing of detailed engineering design for expanding the SRS in WKNP, and at the same time to format the DED team.	
November 21, 2016	Further meeting with CFEE to follow-up previous meeting Nov 7, 2016. Agenda: technical meeting to formulate Terms of Reference (TOR) of DED Expanding the SRS.	
December 25, 2016	Meeting with the Director of WKNP and DED team to review the DED document.	
December 28, 2016	Meeting with the DED team to finalize the DED of Expanding the SRS.	

Preliminary site survey by WK NP and YABI to identify suitable location for expanding of the SRS held on May 2016 and 24 – 26 October 2016.



Preliminary site survey by WKNP and YABI on May 2016.

2. Socialization.

Having experiences in the developing of the Javan Rhino Study and Conservation Area (JRSCA) in Gunung Honje Ujung Kulon National Park, socialization is essential to prevent conflict and rejection from others due to the lack of information or misleading information.

Socialization meeting was held in office of Way Kambas National Park in October 14, 2016. The target group was the staff of the national park and organizations who dedicated to the WKNP including YABI's staff (RPU and SRS), WCS representative, and other local NGO's of Way Kambas. The meeting was attended by the Secretary Directorate General of KSDAE, Mr. Bambang Novianto, Director of WKNP and staff, Mr. Widodo Ramono and staff (YABI's RPU and SRS), Mr. Sumiyanto - PKHS (the Sumatran Tiger Conservation Programme), Mr. Sugio – WCS Indonesia, PKG, YAPEKA, AleRT, and a leader of 7 villages group. The important point of the results meeting was the Way Kambas National Park will support the plan to expand the SRS facilities and infrastructure. Furthermore, the Expanding plan of the SRS facilities and infrastructure will refers to the Management Plan of the WKNP 2016 – 2025.



Socialization meeting at the office of WKNP. Mr. Widodo gave presentation about the plan to expand the SRS (left), and participants' enthusiasm in the meeting room (right).

Further socialization meeting will be held at the higher level, namely District and Province of East Lampung. Although the meeting has not been hold yet, but the Governor of East Lampung, the Regent of East Lampung and some high rank officer of the Province and District of East Lampung has been consulted and explained in every meeting occasions about the plan to expand the SRS.

3. Development Detailed Engineering Design (DED).

To support the development of the sanctuary management for breeding rhino and eco-tourism, careful and integrated well planning through detail engineering design of the expansion of SRS facilities. The DED is very useful to accomodate the facilities and to minimize environmental damages, and provide benefits for user and local communities. Framing of DED is intended to provide guidance and reference in the development process of the expansion of the SRS. The drafting team of DED is under supervision of the Secretary General of the Ministry of Environment and Forestry, Mr. Bambang Hendroyono. Meanwhile, the Head of the Center for Forest and Environment Engineering of the MoEF, Ms. Indra Exploitasia and the Director of WKNP, Mr. Subakir served as Person in Charge and Executive Director of YABI, Mr. Widodo S. Ramono and Mr. Hermantoro Pujiraharjo as the Leader of the team.

In 24 – 26 October 2016, the Head of the Center for Forest and Environment Engineering of the MoEF, Ms. Indra Exploitasia and staff accompanied by the National Park staf, SRS, and RPU, conducted a field visit to WKNP. Results of the field visit could become an input for establishment of technical team of DED.

Physically, the drafting team of the DED has been conducting a measurements and determination of the site location within the WKNP for expanding of the SRS from 24 – 30 November 2016.

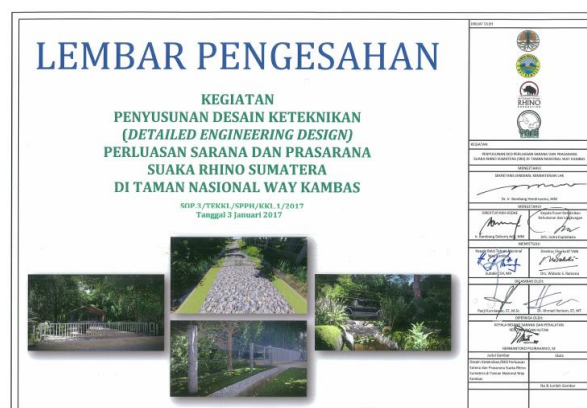


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Measurements and determination of the site location within the WKNP for expanding of the SRS from 24 – 30 November 2016.

The DED document of Expanding of the SRS officially signed by the Secretary General of the Ministry of Environment and Forestry on January 6, 2017.



Book cover of DED of expanding the SRS.

Ratification sheet of DED development activities.

