

# Wak Gatak Songbird Rescue and Rehab Center: Updates and Timeframe

## Contents

<b>Work completed to date - Phase 1</b>	<b>1</b>
<b>Challenges faced in Phase 1</b>	<b>5</b>
<b>Activities for Phase 2</b>	<b>5</b>
<b>Estimated Date of completion of entire project</b>	<b>6</b>
<b>Estimated Date to start operations</b>	<b>6</b>
<b>Additional partners</b>	<b>6</b>
<b>Recent changes in design of Clinic</b>	<b>6</b>
<b>Wak Gatak Masterplan 2020 – 2021</b>	<b>7</b>

## Work completed to date - Phase 1

The list of primary work completed in Q1 of 2020 (January to March) includes completion of land acquisition, clearing of vegetation, establishment of temporary access road, demarcation of the clinic building foundation (Picture 1), beginning of civil work related to Clinic (Picture 2), establishment of main electricity connection for the Center, erection and concrete reinforcement of pillars for Clinic (Picture 3). In Q2 of 2020, work concluded includes construction of floors on 1st level of the Clinic (Picture 4), construction of the roof of the Clinic (Picture 5), and installation of roof tiles, indoor ceilings, window frames, and drainage systems (Picture 6). In Q3 of 2020, major ongoing and concluded work includes completion of floor tiling for the Clinic (Picture 7), electrical work for the Clinic building, and Clinic building paintwork (Picture 8).

*Table 1: Pictures showing month-wise progress of development of the Wak Gatak Songbird Rescue and Rehab Center*

<b>Year 2020</b>	<b>Activities</b>	<b>Picture #</b>
January	Land Prep	<u>1</u>
February	Groundwork preparation for pouring Clinic foundations	<u>2</u>
March	Reinforced concrete works and erection of pillars	<u>3</u>
April	Installation of 1st level floors	<u>4</u>
May	Construction of the Clinic roof	<u>5</u>
June	Installation of window frames, drainage system, roof tiles, indoor ceilings, initial paint, and ground floor tiles	<u>6</u>
July	Tiling, indoor painting, and electrical works, outdoor paintwork	<u>7, 8</u>

### Q1 of 2020 (January to March)



*Picture 1: Land prepared, temporary access road created, and perimeter of the clinic building is established - January 2020*



*Picture 2: Preparations to pour the cement foundation*



*Picture 3: Reinforced concrete works and pillars*

**Q2 of 2020 (April to June)**





*Picture 4: Installation of 1st level floors*



*Picture 5: Construction of the Clinic roof*



*Picture 6: Installation of window frames, drainage system, roof tiles, indoor ceilings, initial paint, and ground floor tiles*

Quarter 3, 2020 (July to October)



*Picture 7: Tiling, indoor painting, and electrical-work works*





*Picture 8: Outdoor painting works*

### **Challenges faced in Phase 1**

Various challenges were encountered during Phase 1, which has slowed down the progress of planned activities. Major challenges faced include,

- Flooding of the land caused by heavy rains which made it impossible to carry out groundwork and use any form of power tools.
- Indonesian government restrictions and YPI HR guidelines related to Covid-19 meant that scheduled work needed to be stalled until after a self-quarantine of the workers during Q2 and Q3.
- The temporary access road has collapsed several times due to heavy rains and flooding. As the plot of land is mainly composed of clay ground, it tends to flood during heavy rains and crack during hot weather. A natural drainage will be implemented to avoid this in the future.
- Clearance of the building permit for construction of the remaining buildings at the center is taking longer due to reduced work-flow of the relevant government agency in light of Covid-19 schedules. However, we are working with our government partners (BKSDA) to expedite the process of finalizing permits and expect to receive them by the end of October 2020.

### **Activities for Phase 2**

The planning of Phase 1 included: clinic building, quarantine and one block of aviaries. Once these facilities are completed, we will be able to commence accepting birds and start basic operations at the center. Our expectation is to resume development work in November 2020, where we will finish the remainder details in the clinic (Canopy roof, sinks, work tables, etc) and start with re-building and reinforcing the access road. In case of other facilities, next in line scheduled for construction is the quarantine building and one block of aviaries.

## Estimated Date of completion of entire project

In general, the estimated date of completion of all aspects of the rescue centre is largely contingent on securing necessary funds, gaining access to professional expertise and manpower, and availability of materials. Under present circumstances, we expect to complete major construction and procurement activities that will allow us to start operations by end of Q2 of 2021 calendar year. Table 2 provides an outline of estimated timeline for completion of major facilities at the center.

*Table 2: Estimated timeline for completion of major facilities at the Wak Gatak Songbird Rescue and Rehab Center.*

Name of Facility	Expected Completion Date
Clinic	Q4 2020
Quarantine/Incinerator	Q1 2021
Aviaries 1 <sup>st</sup> block	Q2 2021
Fence	Q4 2021
Food house/Recycling pits	2022
Workshop	2022
Circular access road	2022
<i>*these are all estimates</i>	

## Estimated Date to start operations

Once our first aviary is constructed (with funds from Silent Forests), we predict to start accepting songbirds from confiscations by the end of Q2 2021. Within this time, we expect to complete the following activities:

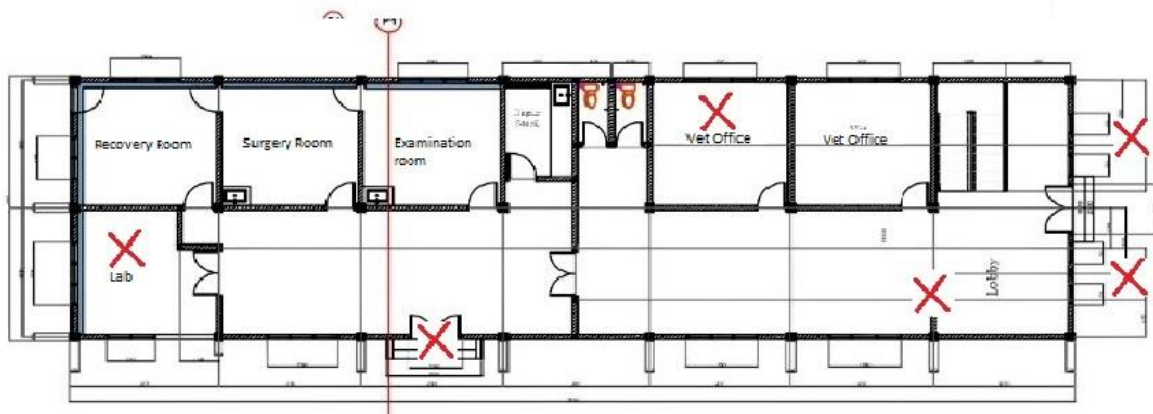
- All Clinic facilities in place
- Quarantine facilities and one block of rehab aviaries are completed
- Basic necessary infrastructure is furnished to support operations
- Vet and Head Keeper are hired and provided with initial training

## Additional partners

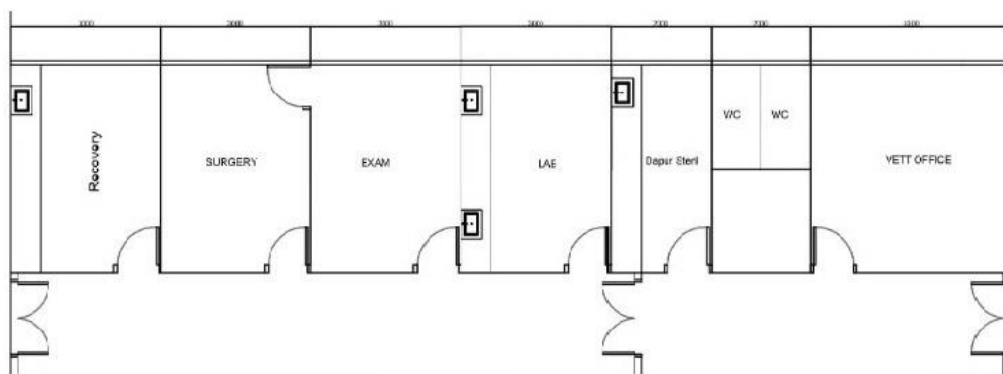
Along with the generous sponsorship of Silent Forests - EAZA, other partners providing support to develop the Wak Gatak Songbird Rescue and Rehab Center includes the Wildlife Reserve Singapore, March Conservation Fund, and an anonymous private donor. Additionally, we are also awaiting response from multiple other grant applications that we have submitted seeking funds to help finish the various aspects of the rescue centre.

## Recent changes in design of Clinic

In general, we have made some changes to the design of the clinic building to improve access to facilities within the clinic building. These changes include slightly reducing the size of the operation rooms, moving the lab from the end of the lobby to the same side as other rooms by replacing one of the vet offices (Figure 1). While maintaining the clinic's full operational capacity, these changes will increase access to the building and improve safety features. At present, no changes have been made to the design of the quarantine building or aviaries.



(a) Old design of Clinic layout. Red crosses (X) marks the changes in the new floor layout



(b) New layout of Clinic showing changes made to the location of the Lab, entry and exits to the Clinic building, and Vet office.

Figure 1: Visual comparison showing changes made between (a) Old layout and (b) New layout for the Clinic.

## Wak Gatak Masterplan 2020 – 2021

The following sections provide an overview of planned facilities of the Wak Gatak Songbird Rescue and Rehab Center scheduled to be built (contingent on funds) in 2020-2021.

### ❖ RED Zone

#### Clinic: Expected to finish by Q4 2020

The clinic is divided into 2 main separate sections - Yellow area and Red area.

**Yellow area:** Office and toilets and kitchenette used to clean instruments and working attires. The first floor of the clinic building is considered a yellow zone with access to an open working space and food kitchen

**Red area:** After the second door a Lab and 3 rooms that will be allocated for examination, operation and recovery.

#### Quarantine - Expected to start date Q1 2021



The Quarantine consists of 2 separate rooms under one roof (Figure 3):

- Ventilation through windows fitted with fine mesh and exhaust system
- Drainage systems discharge in separate septic tanks
- Each room with separate water taps and sinks
- Staff washing and changing room available

The quarantine cages are all standard built 50cm x 50cm and are **custom designed** and placed on frames which allow having sets of 8 or 6 cages on one stand. The cages can be organised in such a way that a maximum of 4 can be combined to become one.

We are currently planning to build prototypes to finalize the design details and components of these cages.

**Incinerator and biohazard waste:** this room will be a crucial part of the Quarantine building. It will minimize biohazard risks and control possible disease spread. The incinerator is built according to national standards and requirements set by Indonesian law.

#### ❖ Yellow Zone

#### Rehab aviaries: Expected to start construction of 1<sup>st</sup> block by Q2 2021

Rehab aviaries (Figure 4) will be used to house birds after successful quarantine, moving to the next phase of rehabilitation - physical and behavioural, integration etc. The following are the details and dimensions of the planned rehab aviaries (Figure 5),

- 10 aviaries per block – 2.5m x 2.5m x 2m
- Half roof to allow access to weather exposure
- Sprinkling system to mitigate the haze and hot season
- Half cement and half natural ground floor to grow small plants inside the cages
- Bathing basins
- Possibility to open access between cages
- A Double door entry system
- Drainage into a separate septic tank

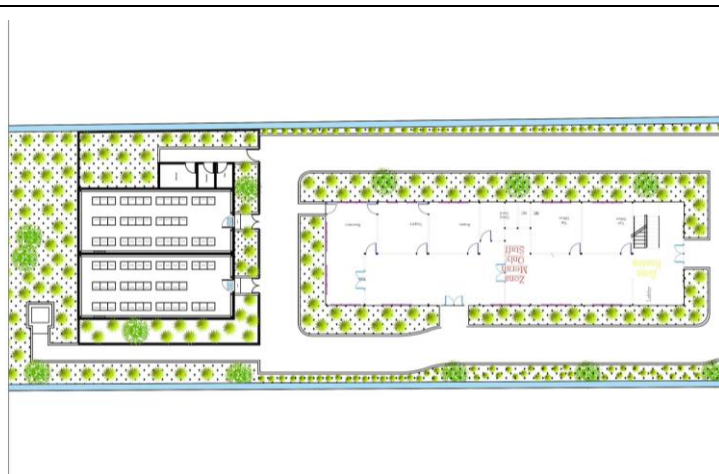


Figure 3: Layout showing location of Clinic building (right side) and Quarantine building (left side)

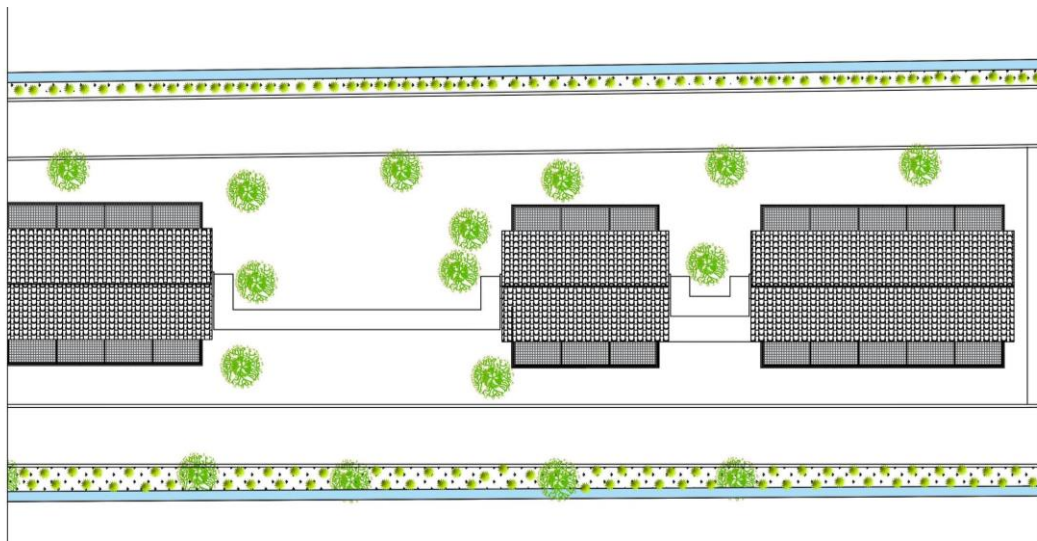


Figure 4: Top view showing semi-open space on the sides of each of the three (3) blocks of aviaries planned to be developed for Wak Gatak Songbird Rescue Center.

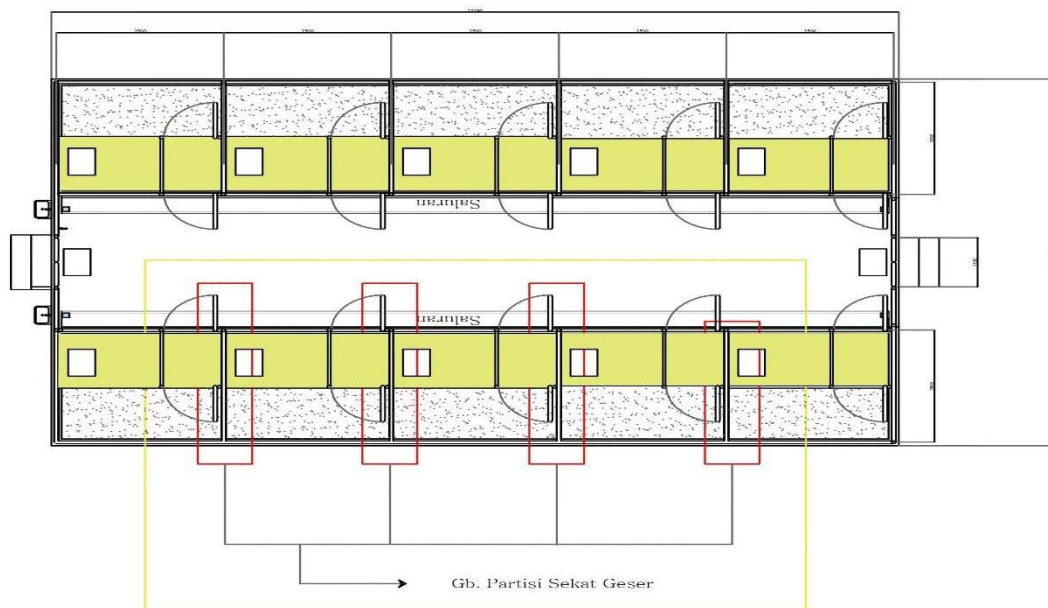


Figure 5: Layout of aviaries