

I. IDENTIFICATION DATA

Thesis name:	Biophilic Residential Complex
Author's name:	Akshata Ravi Kumar
Type of thesis :	master
Faculty/Institute:	Fakulta architektury (FA)
Department:	Architecture and Urbanism
Thesis reviewer:	Ing. Jan Tilinger, Ph.D.
Reviewer's department:	FSv ČVUT

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
The student focuses on the actual situation of Bangalore housing. The aim was to provide residential + international students temporary accommodation in Sri Sathya Sai area. The project should address the issues of lack of economic housing and deterioration of the city's green spaces.	

Satisfaction of assignment	fulfilled with minor objections
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
The thesis is created with sensitive design, fitting typography, and clear schemes of functions. It is focused on providing biophilic housing for large families, small families, individuals, and students. The plot for construction is large and resolute tempting for space waist. There are many large empty spaces around the stairways and in some flats. There is only one underground floor for the technical equipment of the building and parking. It is not clear if this can satisfy the parking need of the building inhabitants and services. As we have families with kids and students it should be considered to have some sport and play spaces, a swimming pool or so.	

Method of conception	correct
<i>Assess that student has chosen correct approach or solution methods.</i>	
The student is analyzing the area of construction by urbanism context from historical maps, to the actual context of the building. Introducing Biophilia concept, analyzing weather conditions at the site. By creating a multifunctional complex of buildings she is using a nice area of the plot and also elevations are in the correct range. It is not clear what exactly the competition assignment is. Otherwise, the analysis of needs should be included. There is a plan of planting a big amount of greenery but there is not clear how the plants will be accessed to treat them and moisture them.	

Technical level	B - very good.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
The student mentioned site conditions, types of materials, and the goal - the competition proposal. The size of apartments is reasonable but the final use of all space is not clear. In some parts of the design, space is wasted and it could be used more economically. At the beginning of the thesis is weather analysis, it is not clear if and how the rainwater would be harvested, stored, and used. The work also misses the quantification of how much space is created and how many people can be accommodated. Some pictures descriptions are confusing (for example on page 42 there is a graf named sun radiation, but it contains temperature data).	

Formal and language level, scope of thesis

B - very good.

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

The thesis is written understandably and it has a nice flow. The graphical quality of the thesis is very good. There is missing page numbering in content. Many of the pictures used are made by the student herself and are simple to understand.

Once we go from imperial to metric scale, the multiples of 1, 5, 10, 20, 50, 100 scales should be used instead of using 87,5m on the map.

The chart on page 49 is the same as on page 101.

Page 78 ground floor plan stair arrow is in the wrong direction.

Selection of sources, citation correctness

E - sufficient.

Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.

The references include only links of websites, but any other information is missing. References are not related to any specific text areas. The pictures and maps do not have correct references (sometimes the source name is included, only). The bibliography doesn't fully meet ISO norms. I give E because there are at least some references included.

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

The design proposed in visualizations seems like a comfortable place to live. With some more effort, we can expect a nice project.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

The student took her part in the competition. Analyzed the situation and created a comfortable and spacy place for living.

Questions:

1. On page 41 you explain Biophilia. Here is mentioned that trees are reducing noise. Can you name some other solutions for noise reduction and compare their effectivity.
2. On the same page is "Biophilia, a concept first popularized by Edward O. Wilson in 1984". What is the correct date? Could you introduce the most important aspects of Biophilia in architecture?
3. Can you name some climatically similar areas around the globe where people would face similar challenges? Did you find any inspiration for solving the heat problems?
4. What type of vegetation you think would grow well in the flower pots, how often you need to take care of it. Is some automatic watering system included? What amount of water would be used to water all plants? What is the access to the plants to take care of it, replant it fix drainage or so?
5. In better-situated families in India, people often use the service of maids, cooks, drivers, etc. Do you expect them also for your complex, and where would they live?

I evaluate handed thesis with classification grade **C - good**.

Date: **25.6.2020**

Signature:

