GREEN BUILDING

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Introduction:

The report is about analyzing the site and plans of shahid faxir mergasory School which located in 100m street in Erbil, our analyzing is to get the result if the building is green building or not green building .

General information :

Location: Iraq-erbil-100m street Total area: 70,000 Architect: Mac architects

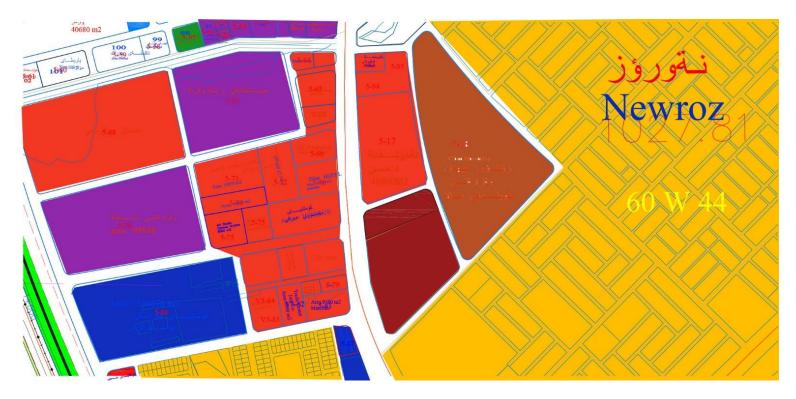


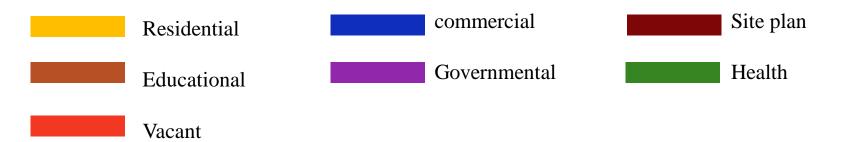
Fakhir Mergasori International School (FMIS) is a highly academic, non-selective, coeducational, English-medium, independent day school for students from the ages of 4 to 18 years. It provides top-quality education to children of different races, nationalities, and backgrounds.



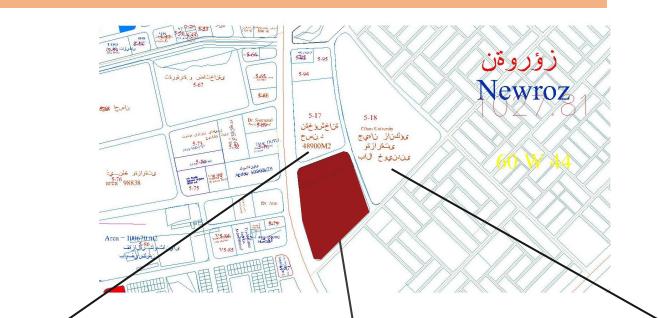


Neighborhood context : Land use:





Surrounding site:







Faxir mergasury school



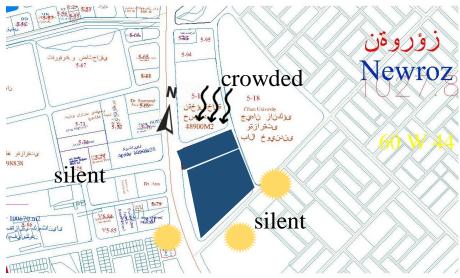
Cihan university

vacant

Site analysis :



Effect of sun and prevailing wind and noise:





Wind direction

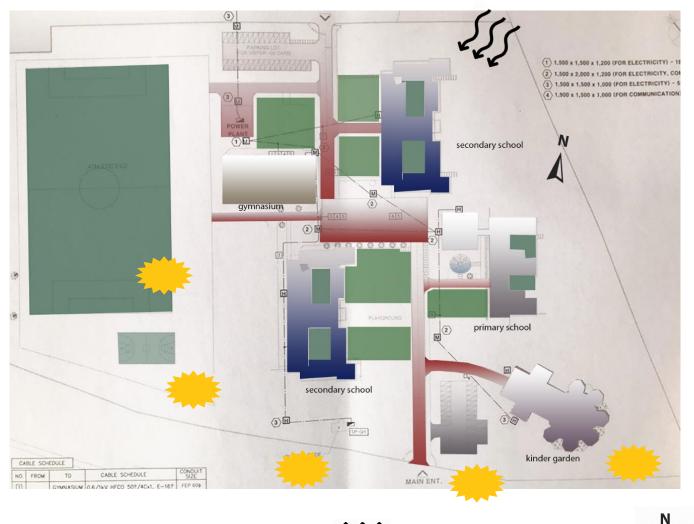
N

Sun path

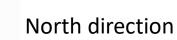
North direction

master plan:

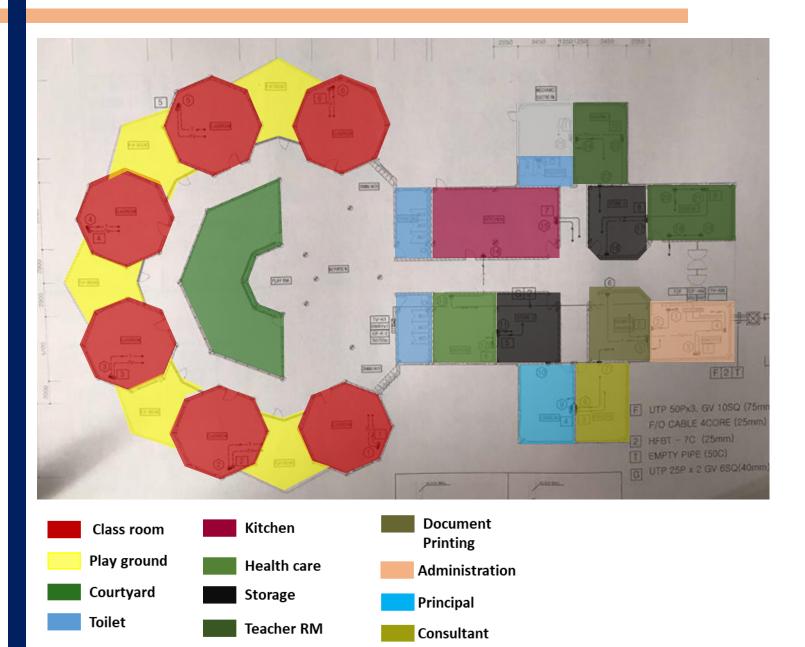
Sun direction



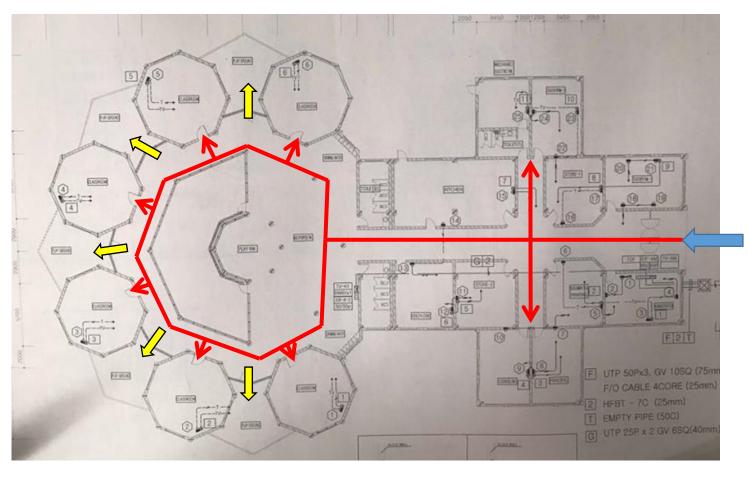
Wind direction



Kinder garden plan:



Kinder garden plan:

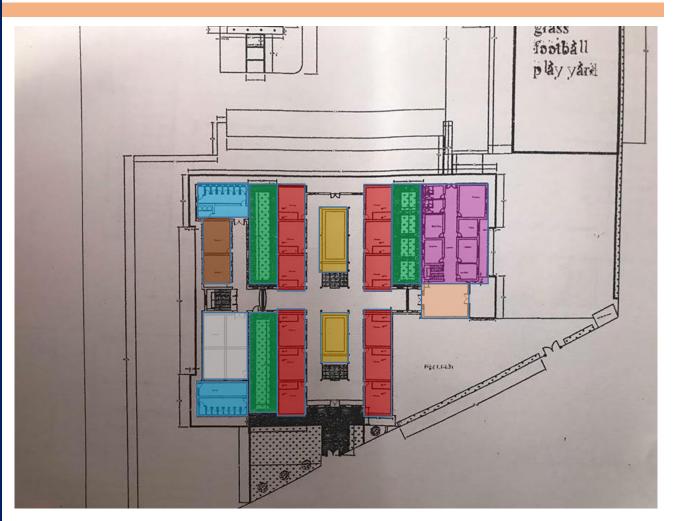


Horizontal circulation

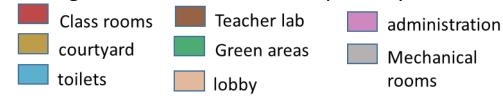
Main entrance

Exit

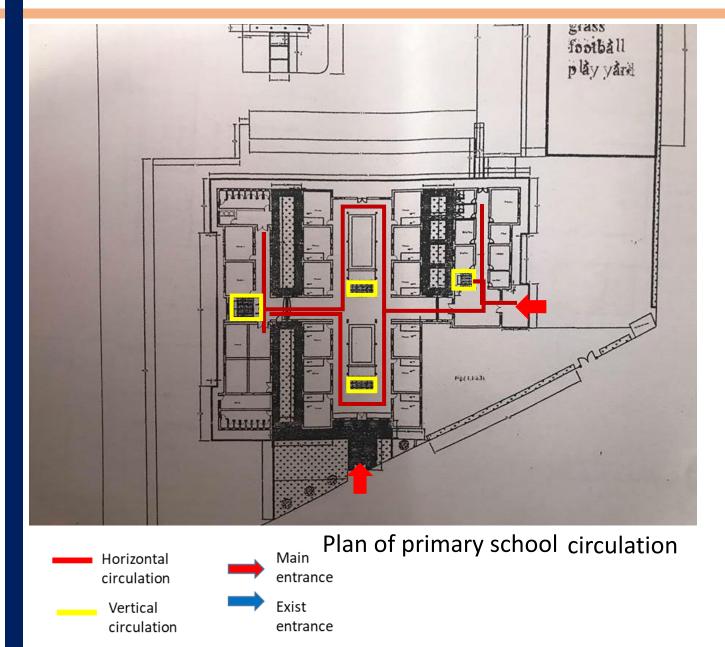
Primary school plan:



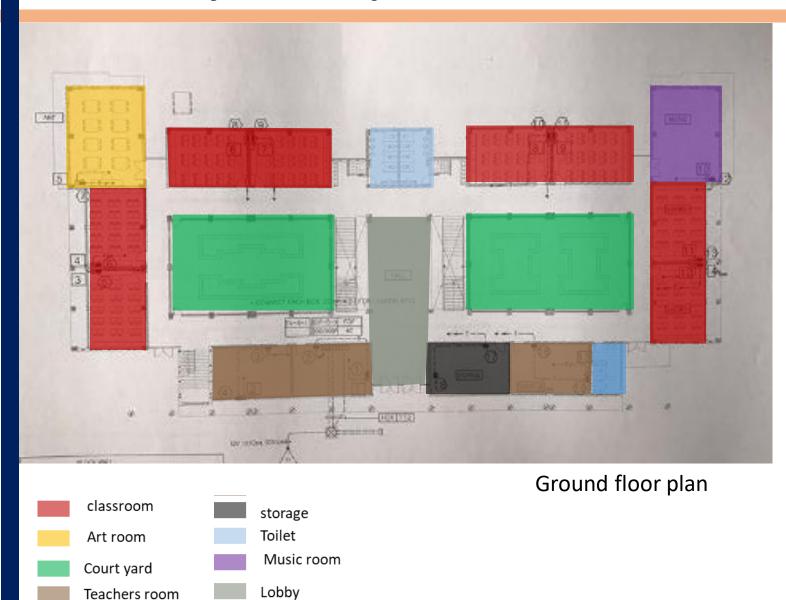
ground and first floor of primary school



Primary school plan:



Secondary school plan:



Secondary school plan:

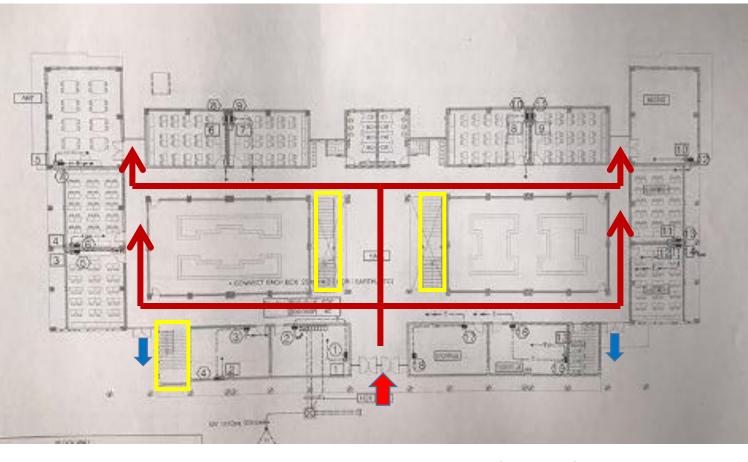


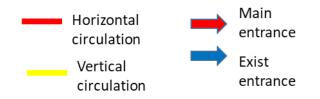
Court yard Teachers room

Art room

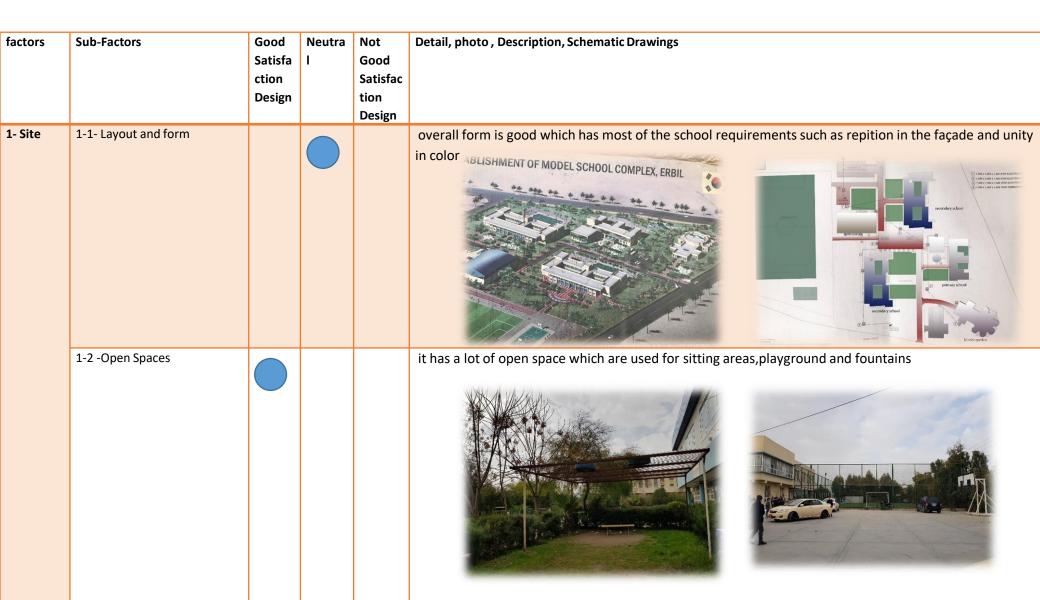
Administration Principal Health care

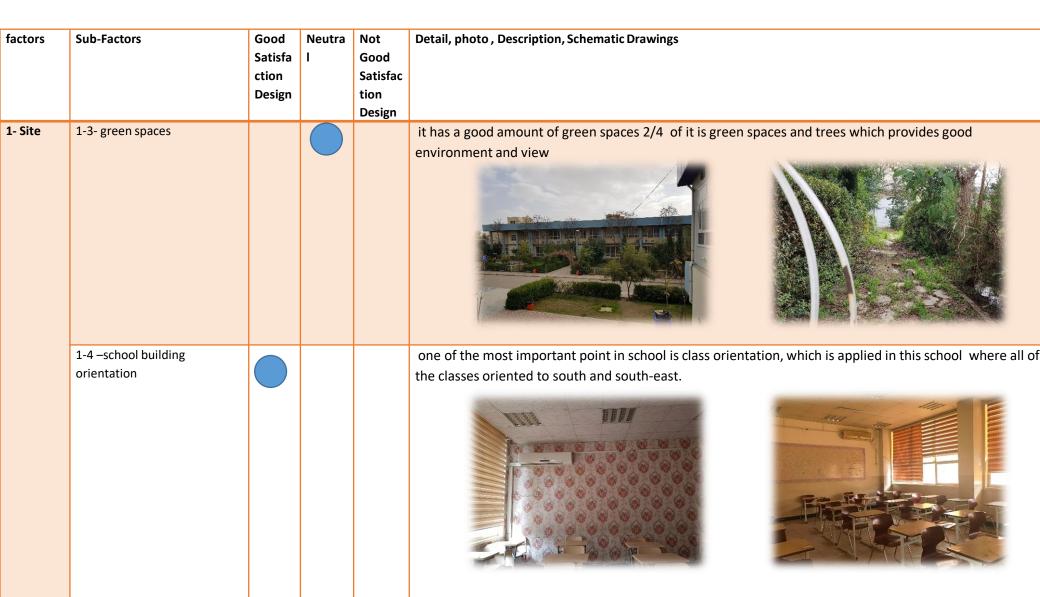
Secondary school plan:



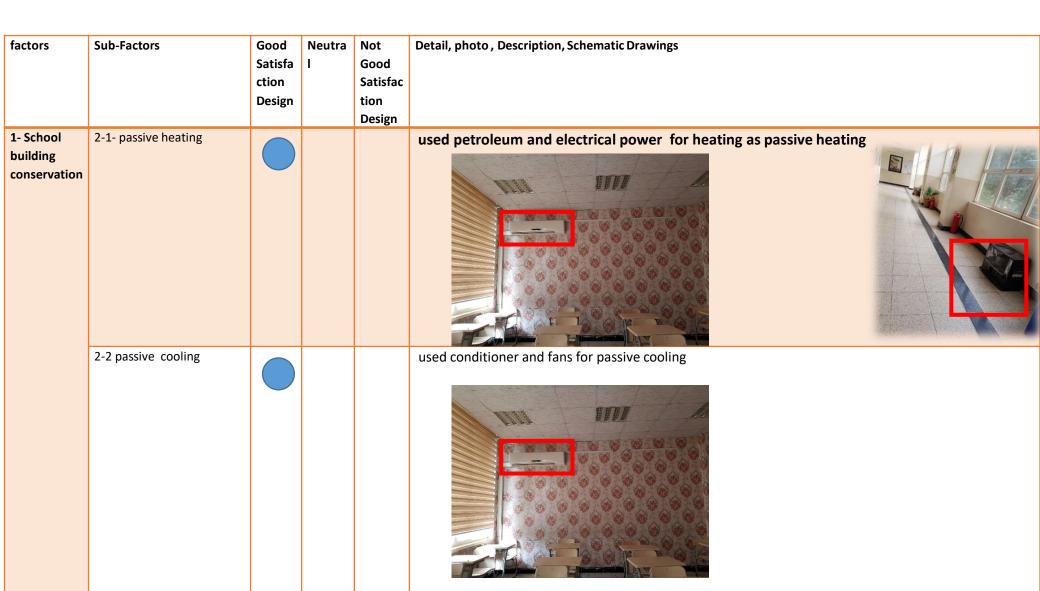


Circulation plan





| factors | Sub-Factors | Good Satisfa ction Design | Neutra I | Not Good Satisfac tion Design | Detail, photo , Description, Schematic Drawings |
|---------|--|------------------------------------|-------------|---|--|
| 1-Site | 1-5- using any natural resources as active energy | | | | no natural resources used as active energy instead used petroleum and electrical power for cooling and heating. |
| | 1-6 –others (gates) | | | | <image/> |



| - | | | | | |
|---------------------------------------|---------------------------------------|------------------------------------|-------------|---|---|
| factors | Sub-Factors | Good Satisfa ction Design | Neutra I | Not Good Satisfac tion Design | Detail, photo , Description, Schematic Drawings |
| 1- School building conservation | 2-3- natural ventilation | | | | <image/> |
| | 2-4 horizontal and vertical gardening | | | | <image/> |

| factors | Sub-Factors | Good Satisfa ction Design | Neutra I | Not Good Satisfa ction Design | Detail, photo , Description, Schematic Drawings |
|---------------------------------------|--|------------------------------------|-------------|---|---|
| 1- School building conservation | 2-3- others (elevator for disabled students) | | | | <text></text> |

| factors | Sub-Factors | Good Satisf actio n Desig n | Neutr al | Not Good Satisfa ction Design | Detail, photo , Description, Schematic Drawings |
|------------------------------------|---|--|-------------|---|---|
| 3- Material Conserva tion | 3-1- Use of recycled Materials | | | | there is no use of recycled materials. |
| | 3-2 –Use of Non- conventional materials | | | | <image/> |

| factors | Sub-Factors | Good Satisf actio n Desig n | Neutr al | Not Good Satisfa ction Design | Detail, photo , Description, Schematic Drawings |
|------------------------------------|---------------------------------------|--|-------------|---|---|
| 3- Material Conserva tion | 3-3-Type of glass used in openings | | | | <image/> |
| | Others | | | | |

| , | | | | | |
|------------------------------|--|--|-------------|---|--|
| factors | Sub-Factors | Good Satisf actio n Desig n | Neutr al | Not Good Satisfa ction Design | Detail, photo , Description, Schematic Drawings |
| 4- water Conservat ion | 4-1- Rain water collection and reuse them | | | | This building is not used rain water collection and reuse them , and the average of green area is High but they didn't use any system to save the Rain water to reuse it for garden watering system |
| | 4-2 –Gray water collection and reuse them | | | | there is no system for reusing the gray water system ,the gray water running from toilets sink to sewer. |
| | 4-3-Reduce toilet water | | | | |

Result :

As a result shahid fakhir mergasory school some how considered as a green building because of having good points for materials, open spaces, green areas, layout and form, school building orientation.



thank you