KEY PROBLEMS IN EXISTING DESIGN

- No overall aesthetical beauty
- Lack of variety of plants and shrubs.
- Gates are in a bad condition
- Existing pathways are in a bad condition and also it is not properly designed
- Lack of interesting play equipments
- Improper arrangement of kabadi ground. No space for other sports
- No proper drainage systems
- Lack of enough parking facilities
- Lack of properly designed electric poles
- Existing fountain should be modified
KEY PROBLEMS NOT EVEN CONSIDERED IN EXISTING DESIGN

- No space for elderly people’s entertainment activities
- No proper arrangements and facilities for differently abled
- No compost pit and dust bins
- No pucca huts for attracting more tourists. Also lack of wooded areas for better aesthetical beauty
- No shops and food area inside the park
- No shelters in the rain
- No gallery around the existing play ground
- No arrangements for rain water harvesting and to reduce water logging
- No proper usage of natural energy sources
- Lack of toilets
- No provision for drinking water
- Lack of aquaculture in water bodies
- Lack of proper arrangements and control to maintain the water bodies clean
• Improvement of overall aesthetical beauty by adding sculptures
• Plant variety of plants and shrubs.
• Gates should be renovated
• Pre designed pathways should be constructed
• More interesting play equipments should be installed in open space
• Existing kabadi ground should be renovated and a badminton court should be constructed near the kabadi ground
• Drainage system should be pre designed and existing manholes should be kept closed and safe.
• Parking facilities should be increased and can hire a security for proper management of parking
• Existing electric poles should be kept safe and modified
• Existing fountain should be modified
• Should provide more space for people’s entertainment activities. Also an organised path for morning and evening walks should be given
• Growing of different aquacultures in water bodies can be done. But it should be made safe for users.
• A compost pit and a no. of dust bins should be allocated in proper positions. It should be kept away from children and should be closed to avoid foul smell.
KEY SOLUTIONS

• Should provide a sliding path for movement of differently abled (wheel chairs, hand rails etc.). Should provide play equipment that can be used by differently abled also.

• Pucca huts or bamboo huts can be installed for attracting more tourists. Also wooded areas can be increased for better aesthetical beauty

• Provision for small shops and food area inside the park

• Provision for shelters for rain

• A properly designed gallery can constructed around the existing play ground

• Arrangements for rain water harvesting and to reduce water logging can be given. But these pits should be kept safe and away from public area.

• **Usage of natural energy sources should be encouraged.** Installation of solar light poles and ultra-latest technology of TREE SHAPED WIND TURBINES can be installed.

• A no. of toilets should be constructed.( mobile toilets also can be experimented )

• Provision for drinking water should be given in each intervals of pathways

• To maintain the water bodies clean, a timing for entering into the TALAB can be executed ( 2hrs in morning and 2hrs in evening). After that timing water body should be cleaned everyday
EXPLANATIONS OF DESIGN DIAGRAM

• 1 - PLAY AREA FOR CHILDREN
• 2 - INTERACTIVE, EXERCISE AND PLAY AREA WITH EQUIPMENTS FOR ALL AGES
• 3 - FOOD AND OTHER SHOPS
• 4 - TOILETS
• 5 - COMPOST PIT
• 6 - BADMINTON COURT
• 7 - GALLERY
• 8 - KABADDY COURT
• 9 - WOODED AREA WITH PICNIC TABLES
• 10 - TALAB AREA
• 11 - TALAB TEMPLE
• 12 - MAIN GATE
• 13 - STEPS WITH SLIDING PATH
• 14 - FOUNTAIN
• 15 - PLATFORM FOR BENCHES
• 16 - ELECTRIC POLES
• 17 - WOODED AREA WITH PICNIC TABLES
• 18 - GATE 2
• 19 - TREE SHAPED WIND TURBINE
• 20 - PARKING AREA
• 21 - HUTS
• 22 - BAMBOO TOWER

LIGHT POLES
ELECTRIC POLES
MANHOLE
TRANSFORMERS
PICNIC TABLES
MISTERS WITH DRINKING WATER
The tree shaped turbines can be used to exploit small air currents (BREEZE) flowing along buildings and streets, and could eventually be installed in people’s yards and urban centres. It is good in appearance also. The 26 foot high trees, which use tiny blades inside the ‘leaves’, could potentially be profitable after a year of wind speeds averaging 7.8 mph. They can generate electricity in wind speeds as low as 4.5 mph.


High-quality illumination from many solar powered systems companies brings out the best in landscapes, making citizens feel proud. And by using a green and sustainable energy source, it's being kind to the environment too. Solar powered flood and area lighting provides clear, refreshing illumination that is perfect for sporting and entertainment events. Bring new comfort to living and activity areas while keeping energy costs low by using these.

• It’s more preferable to build a dancing fountain with LED lights. This will be more attractive and more suitable for a smart city park. For making its energy efficient, the electricity needed to work it can be produced using the tree shaped wind turbines. Fix a time for the dancing fountain show everyday. Also reuse the water in the fountain and make it eco-friendly.

• There can build a modified kabaddi ground and a Badminton court for improving the sportive spirits of people. Also a gallery seating arrangement should be given around the courts. Also there should be provisions for differently abled people to play.

• Picture references : Google images
HUTS AND WOODED AREAS

- As it is a semi-urban area, huts constructed with eco-friendly materials will attract more people into the park. Huts can be constructed with bamboos, straws, rice husk board, etc. Also, a wooded area can be created around the huts to feel like a shallow forest. A tower with bamboo can be provided for aesthetic beauty.

Picture references: Google images
A attractive play area with play equipment can be planned in the open space. There will be play equipment that can be usable for differently abled also. There will be smooth paths for using wheelchairs. Also there will be special equipment which can be used for daily exercises with fun for elderly people. There will be pathways for daily walk. Eco friendly play area can be constructed because there is lots of trees in the park. Swings in trees can be added. Sculptures using rocks and woods can be build. Picture references : Google images
SMALL SHOPS AND AREA FOR FOOD AND PROVISION FOR DRINKING WATER

- Misters with drinking water pipe is an innovative idea. It will provide a facility to make the users feel like they are in mist. This can be used instead of full face washing and hence reduces the wastage of water. It will make them more energetic and fresh. Picture Reference: Google images

- Provisions for small shops including food shops can be added to the design. Also, space for having the eatables should be provided in the open space. These shops can be constructed in interesting shapes so as to attract more people. Also, mobile shops can be allowed inside the park with proper rules and regulations.

- Picture references: Google images
PICNIC SHELTERS AND BENCHES

• Single table picnic shelters an be placed throughout the park for visitors to enjoy a picnic or shaded place to read or work. They are available on a first come, first served basis. On the roof side of these shelters solar panels can be placed and using this solar energy, lamps can be lighted in the shelter area at night.

• Benches in antique designs can be build. It is preferable to use non-corrodable metals for the construction. Even wooden benches can be constructed. But they should be in some shelters to avoid the effects of rain and sunshine. Also rock benches can be constructed. Initial cost of them will be high, but no heavy maintenance is needed.

• Picture reference:
  https://www.como.gov/ParksandRec/Parks/Stephens_Lake/stephens_shelters.php
PARKING

• **Angle parking** is preferable to reduce the rush and blocks in the parking space. It is easy to park in angle parking system and also it I easy to take the vehicles out.

• It is possible to hire a security to manage the parking and a small parking fee can be decided to get the construction cost of parking systems and for the salary of security. During the low vehicle intensity to the park time, this can be used as ‘pay and park’ for outsiders also.

• **Automatic parking cases** can be installed. This is an expensive technique but its maintenance cost and efficiency is high.
• Existing gates are in a bad condition. So they should be modified and the gate for parking is too narrow. It may cause traffic jam. So that gate should be widened and a gate for differently abled should be given. There will be a sliding path starting from this gate for using wheel chairs. Also there will be a hand rail for helping blinds and other differently abled people. If there is enough seating provided just after the entry, it will be more helpful.

• Different types of flowering plants which will attract butterflies can be planted (Butterflies garden). There should be a collection of variety of plants around the fountain. If the budget is high, then flower filled decorative pathways can be build.

• Picture references: Google images
USAGE OF RECYCLED MATERIALS FOR CONSTRUCTION

• Tyres can be recycled to make different decorative items. This is durable and cheap. So many recycled products from tyres can be added in the park. It will be an eco-friendly move and also will not cost much. They are the new trend in international level park designs as it is more easy to construct and eco-friendly.

• Many other products like glass, stones, recycled plastic, fibres etc. can be used for different purposes.

• Picture references : Google images