

MISSION BHAGIRATHA



**ROADS, BUILDINGS,
LIGHTING & GENERAL**

20.02.2023

WATER TREATMENT PLANT (WTP)

GENERAL

- ❖ Neat and clean Layout of WTP with all internal roads shall be displayed at main entrance of WTP.
- ❖ In WTP office, a drawing shall be kept showing piping giving location of Valves, Dia, type/class other appurtenances.
- ❖ All record such as Log-Books of all units shall be kept at WTP office updated timely.
- ❖ It will be useful for cross checking of
 - Energy consumption
 - Chemicals consumption
 - Water consumption
 - Spare parts consumption

WATER TREATMENT PLANT (WTP)

BUILDINGS,ROADS,LIGHTING

- ❖ Ensure no Leakages in the water structures i.e, Aerator,PST,Stilling channel,Flash mixer,Clariflocculator,In let channels,filter structures,Galleries and wash water tank.
- ❖ Ensure no stagnation of rain water on the Top slabs of buildings.
- ❖ Ensure proper water spouts to the buildings i.e, Chemical ,Chlorine ,Filter Houses,Pump Houses,Staff Quarters and Others.
- ❖ House Keeping- Cleaning of flooring,dusting of Panel boards on daily basis.
- ❖ Cleaning of roofs,walls,windows,ventilators,rolling shutters etc on weekly basis.
- ❖ Removal of all unwanted materials.

WATER TREATMENT PLANT (WTP)

BUILDINGS,ROADS,LIGHTING

- ❖ Cross drainage works and storm,sludge bleeding water disposal system shall be done.
- ❖ Cement roads,Landscaping and plantation shall be done.
- ❖ Epoxy paint shall be ensured for all water retaining structures like stilling channel,flash mixer,Clariflocculators,In let Channels,Filter boxes,Inside wash water tank.
- ❖ Security room shall be constructed with toilet.
- ❖ Toilets blocks shall be provided separately for Ladies and Gents.
- ❖ Required Lighting arrangement for all the buildings.
- ❖ Ensure Yard lighting.
- ❖ At entrance gate arch with MB emblem to be displayed with LED bulbs as per type design.

House keeping: Security

- ❖ Responsible for the Cleanliness of the Water treatment plant.
- ❖ Maintain the premises hygiene.
- ❖ A safe and clean environment for staff by adhering to safety and health regulations.

Security :

- Primarily guard the treatment plant.
- Maintain a visitor register .
- Reach out to the plant manager in case of emergency.
- Shall not allow any outsiders without authorization from Department.
- Shall guide any authorised visitors to the concerned.

Roads, Buildings, lighting & General

Are the valve chambers free from stagnated water

Is the Filterhouse Housekeeping done neat and tidy

Is the overall WTP premises house keeping done properly

Is the colour of the structures is still bright and does not requires re-colouring

Is there proper outlet for rain water collected on the building roofs

Are the rainwater outlets free from any obstacles and working properly

Are staff quarters constructed and completed in all respects

Are the Staff Quarters let-out to O&M Staff

Are Internal roads, land scaping and plantation completed

Is internal storm water drain work completed

Is yard lighting completed and working

Are separate toilet blocks provided for ladies and gents

Yard lighting and Lanscaping done around the filter house is good

Compound wall, security guard room with toilet at entrance gate completed

ADVISORY TEAM VISIT

FROM 04.01.2023 – 14.02.2023

{ 47 WTPs }

X

**BUILDINGS
PARAPET
WALL-
No Proper water
Spouts**



**Aerator
some
portion
kurb wall
tiles to be
rectified.**



X
ALUM
STOCK



X

**SLUICE
VALVE
LEAKAGE
IN PUMP
HOUSE**



**TILES TO BE
RECTIFIED**



**CC DRAIN &
KURB WALL**



Rain water may enter through the steep slope of the road. Hence provide kurb wall in front of the shutter PH



CWPH - Mesh and Net shall be provided to avoid entering pigeons



**Chemical house
– Ceiling roof
shall be cleaned**



**Filter House -
Impervious
coat shall be
done**



**WATER
SPOUTS**



**AERATOR
Tiles
damaged**



**Filter
House -
walls are
wet- To be
rectified**



**Filter
House -
Roof slab -
Impervious
coat shall
be done**



**Roof and
columns
shall be
cleaned**



**40 kl OHBR
27 mts-
Pigeons
and bats
are entered**



**OHBR –
opening to
be closed
with Mesh**



**Wall crack
to be
arrested in
SCADA
room**



**Filter
House -
Roof slab
shall be
cleaned**



**Watchmen
Quarters**



Proper
Mesh and
Net at
entrance
shall be
provided
to avoid
Pigeons



RWS



Alum touching the walls and columns - shall be avoided



**Chemical
house - Iron
ladder
rusted - To
be painted**



Water
spouts
pipe
shall be
from
roof
slab to
bottom



**Store
room**



**Internal
drain
covered
with
precast
slabs**







**Chemical
room-
Tiles
damaged
-To be
rectified**



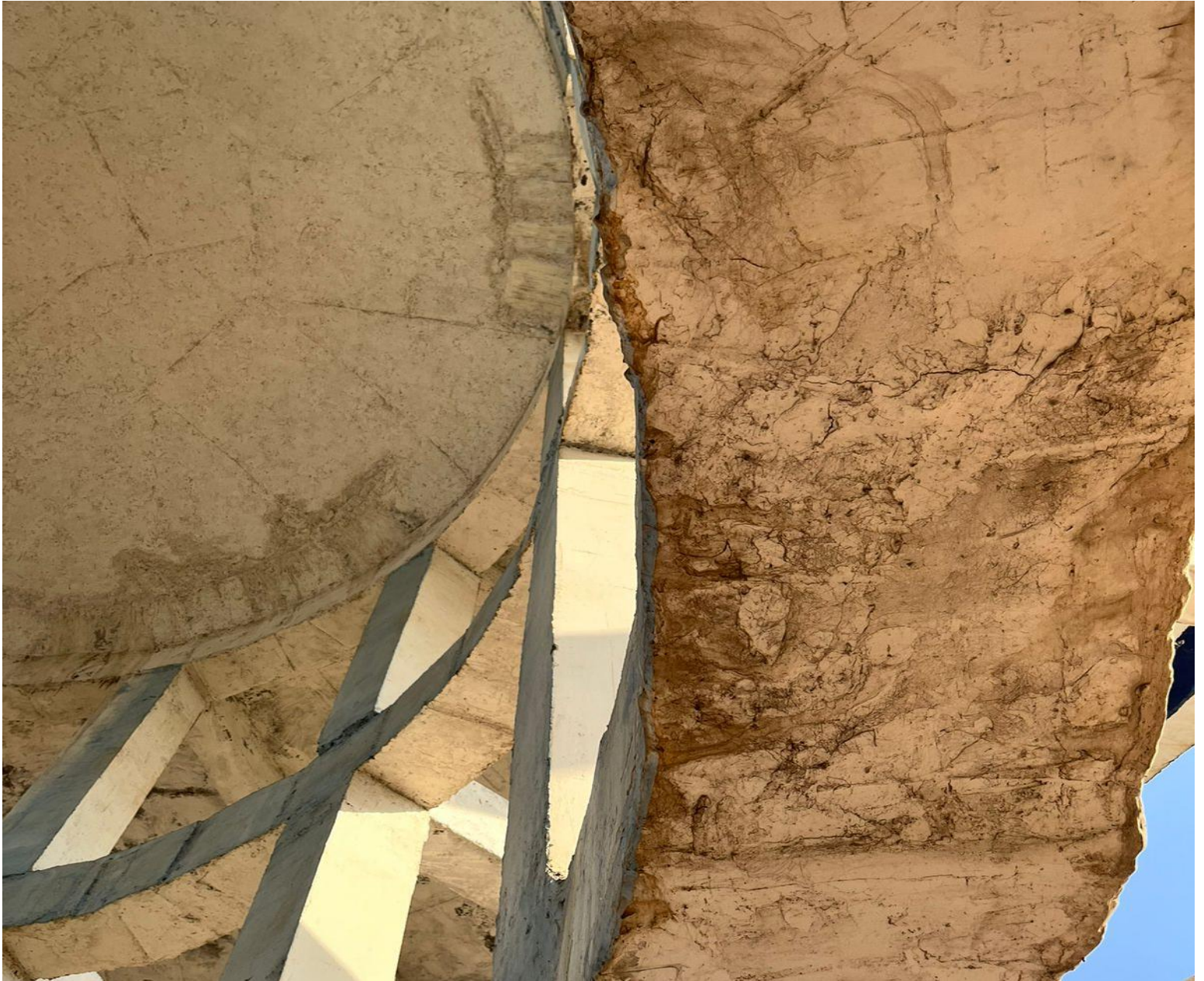
CHLORINE
CYLINDER



LEAKAGES



LEAKAGES





Kurb wall shall be extended due to spillage of water



**Beem -
steel
rusted -
To be
rectified**



The Advisory team meeting was conducted with staff.



LAB





HTD

SAIKRISHNA
1898-202

CHLORINE TOXIC

2391-2418
006: M.M.N. 19
2391-2418

HTD-5-22
DUED-5-24

**OHBR -
Iron
ladder
and
pipes
rusted -
shall be
painted**



**IRON
LADDER -
RUSTED**





MISSION BHAGIRATHA



TREE PLANTATION

28.01.2023

A hand holding a small globe with a tree growing on it, symbolizing environmental care and tree plantation. The globe is tilted, showing a dense forest of green trees on the lower half and a single, larger tree on the upper half. The background is a soft, green gradient.

➤ ***What is Plantation ?***

Tree plantation is a biological practice where large amount of trees or plants have been plantation in a given area.

Gardeners:

- Maintain the beauty of plants, outdoor grounds, and trees in the plant.
- Perform basic maintenance such as cutting the grass, managing and weed growth control.
- Proper watering to the plants.
- Utilize the consumables for plant growth like fertilizers, pesticides etc.,
- Wear protective gear while performing the maintenance work.
- Update about the consumables and other necessary items required for plantation to plant supervisor.

Plantation

Is land scaping maintenance is good

Is tree plantation is good

Is the plantation register is maintained

Is sufficient watering facility is there for plantation

Is tree plantation is covered in the entire area

Qualitative analysis and comments by the Inspecting officer

Plantation - water shall be avoided from the back wash water tank as the water consists of chemicals i.e Alum, Chlorine. -

The plants will not survive.

□ *Pre-Planting Operation*

Pre-Planting Operation works to be shall be completed before March

a) Cleaning of unwanted jungle growth



b) Alignment and Digging of Pits



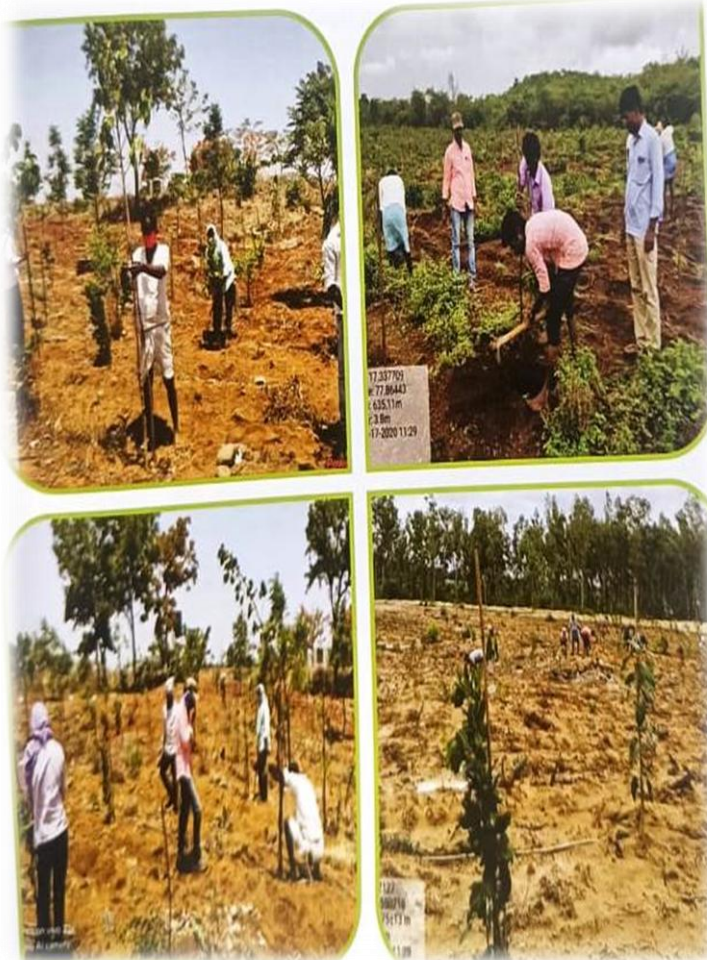
C) Internal Transportation



d) Hand of agriculture is using a cutter to cut plastic bags in the plantation



e) Pitting size 45x45x45 cm. after Pitting apply of 50gm. of SSP per pit one day before for root growth .



f) After plantation stakes should be put in pit for support to plants



g) After plantation apply water



h) In the month October, November, saucer to be done



NOTE ON HIGH VALUE PLANTS

Many **departments** / Institutions are having vacant lands which are well protected. These vacant lands can be used for growing valuable timber species which will not only help in promoting greenery but also provide due economic returns in future. In order to raise such wood lots, the following points can be kept in mind -

- **To grow valuable tree species in the vacant institutional lands with proper protection.**
- **Plant tall seedlings of more than 1.50 mtr height shall be in 5m x 5m spacing in 60X60X60 Cms pit .**
- **The Plant should be protected with tree gaurd and numbering should be given for identification.**

These plantations can be maintained for 3 years including the raising year and well protected there after.

➤ ***They need to be fully protected and provided critical watering wherever required.***

➤ ***These plantations will give huge returns after maturity.***

➤ ***The following tree species are proposed for planting –***

- ***Santalum album (Sandal wood, Gandham, Chandanam)***
- ***Pterocarpus marsupium (Yegisa)***
- ***Dalbergia latifolia (Rose wood, Jitregi)***
- ***Pterocarpus santalinus (Red sanders, Erra Chandanam)***
- ***Albizia odoratissima (Chinduga)***
- ***Swietenia mahagoni (Mahagoni)***
- ***Tectona grandis (Teak)***

PLANTATION

TOTAL (Nos)		263815
•High Value Plants		110864
•Fruit Bearing Plants		61584
•Tamarind		4143
•Others		87224
•Up to 2021-22	-	177146
High Value Plants		24195
Tamarind		4143
Fruit Bearing Plants		61584
Other Plants		87224
•2022-23 (up to 07.09.2022)		
High value Plants	-	86669

Plantation in Mission Bhagiratha Assets -29.12.2022

S.No	Name of the Circle	Plantation (Nos)		
		Up to 2021-22	2022-23	Total
1	2	3	4	5
1	Adilabad	12118	20146	32264
2	Hanmakonda	15318	2010	17328
3	Karimnagar	13958	5980	19938
4	Khammam	18543	5645	24188
5	Nizamabad	13038	3314	16352
6	Warangal	13176	5714	18890
7	Wanaparthy	11723	5000	16723
8	Y.Bhongir	8400	2155	10555
9	Hyderabad	30127	9151	39278
10	Mahabubnagar	15485	11552	27037
11	Sangareddy	6753	9060	15813
12	Mancherial	3946	5400	9346
13	Sircilla	7918	1542	9460
14	Nalgonda	1957	0	1957
15	Siddipet	4686	0	4686
	Total	177146	86669	263815

Tree Plantation in Mission Bhagiratha Assets 2021-22

S.No	CE	High value Plants (No.s)	Tamarind Plants (No.s)	Fruit breaing Plants (No.s)	Other plants (No.s)	Total Planted (No.s)
1	A.Chandramouli	2101	297	4592	15895	22885
2	A.Vijay Prakash	3253	487	5183	2516	11439
3	B.C. Gnan Kumar	2780	530	11559	1195	16064
4	Ch.Amarendra	1563	176	4584	15553	21876
5	G.Chenna Reddy	5467	529	15525	14886	36407
6	G.Lalitha	2750	375	5417	10250	18792
7	K.Srinivas	3195	434	5071	9843	18543
8	L.Ramchand	1161	1220	6705	3952	13038
9	V.Srinivas Rao	1925	95	2948	13134	18102
Grand Total		24195	4143	61584	87224	177146

Plantation in Mission Bhagiratha Assets -15.12.2022

S.No	Name of the Circle	High Value Plants
		2022-23
1	2	4
1	Adilabad	20146
2	Hanmakonda	2010
3	Hyderabad	9151
4	Karimnagar	5980
5	Khammam	5645
6	Mahabubnagar	11552
7	Mancherial	5400
8	Nalgonda	0
9	Nizamabad	3314
10	Sangareddy	9060
11	Siddipet	0
12	Sircilla	1542
13	Wanaparthy	5000
14	Warangal	5714
15	Y.Bhongir	2155
	Total	86669

**BACK
WASH
WATER
TANK**

**CARPET
GRASS**



**PLANTATION-
PIPE
CONNECTION**



***YARD
LIGHTIN
G***



**YARD
LIGHTING**



YARD
LIGHTING



PLANTATION

**NO
WATERING**



CARPET GRASS



PLANTATION



TEAK



ROADS- CARPET GRASS





MI K20 PRO
ESH RI

2020 /

PAPAYA



Indian
Almond
tree





Rubber
fig -
రబ్బర్
మొక్క





Carpet grass cutting shall be done



Apple
bear



Rudraksha







Work Safety
Your family is waiting
for you at home.

**Water
apples**

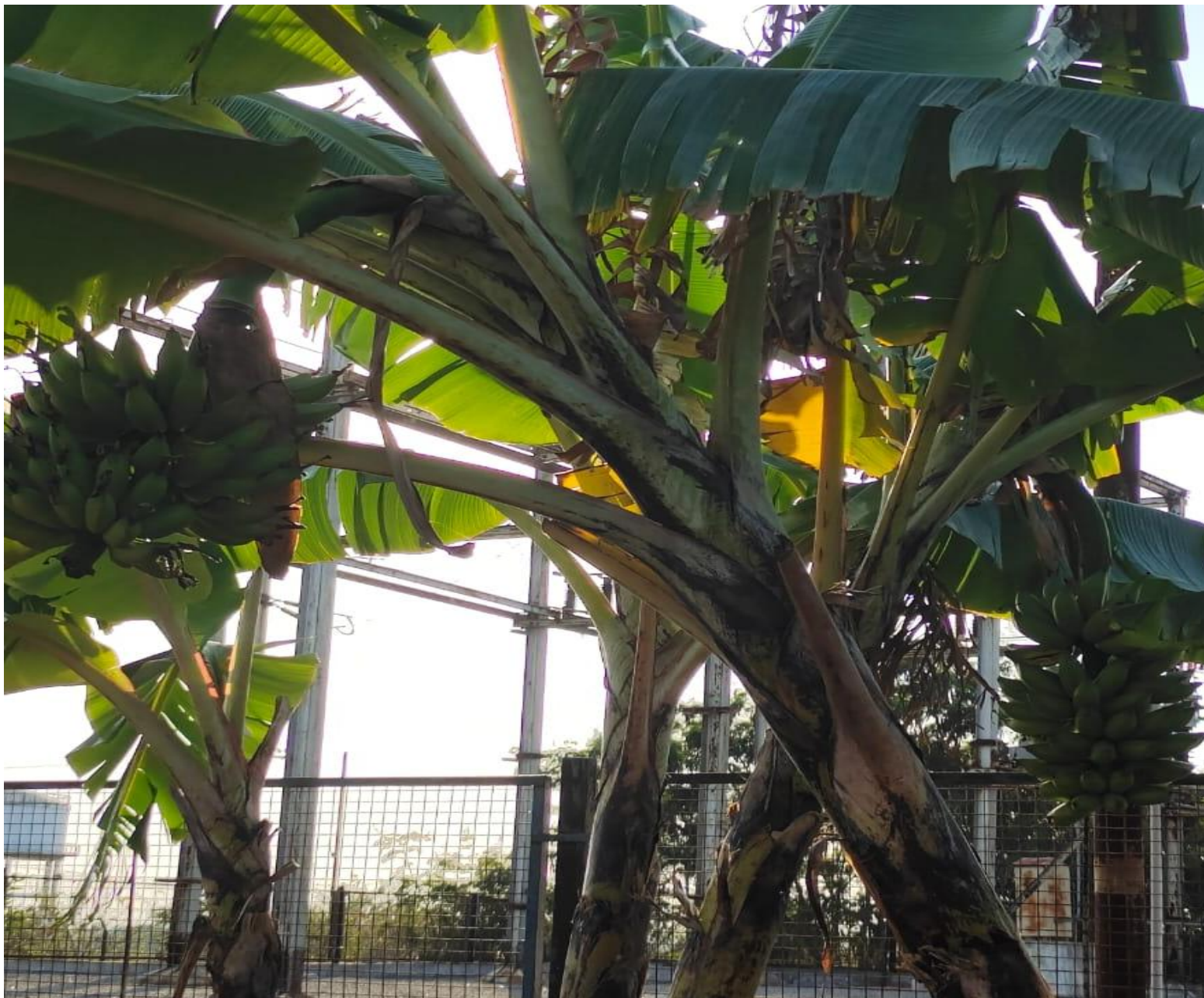


Kapok
Silk
cotton
Tree





Banana



దసర -
శమి
చెట్టు -
jand plant

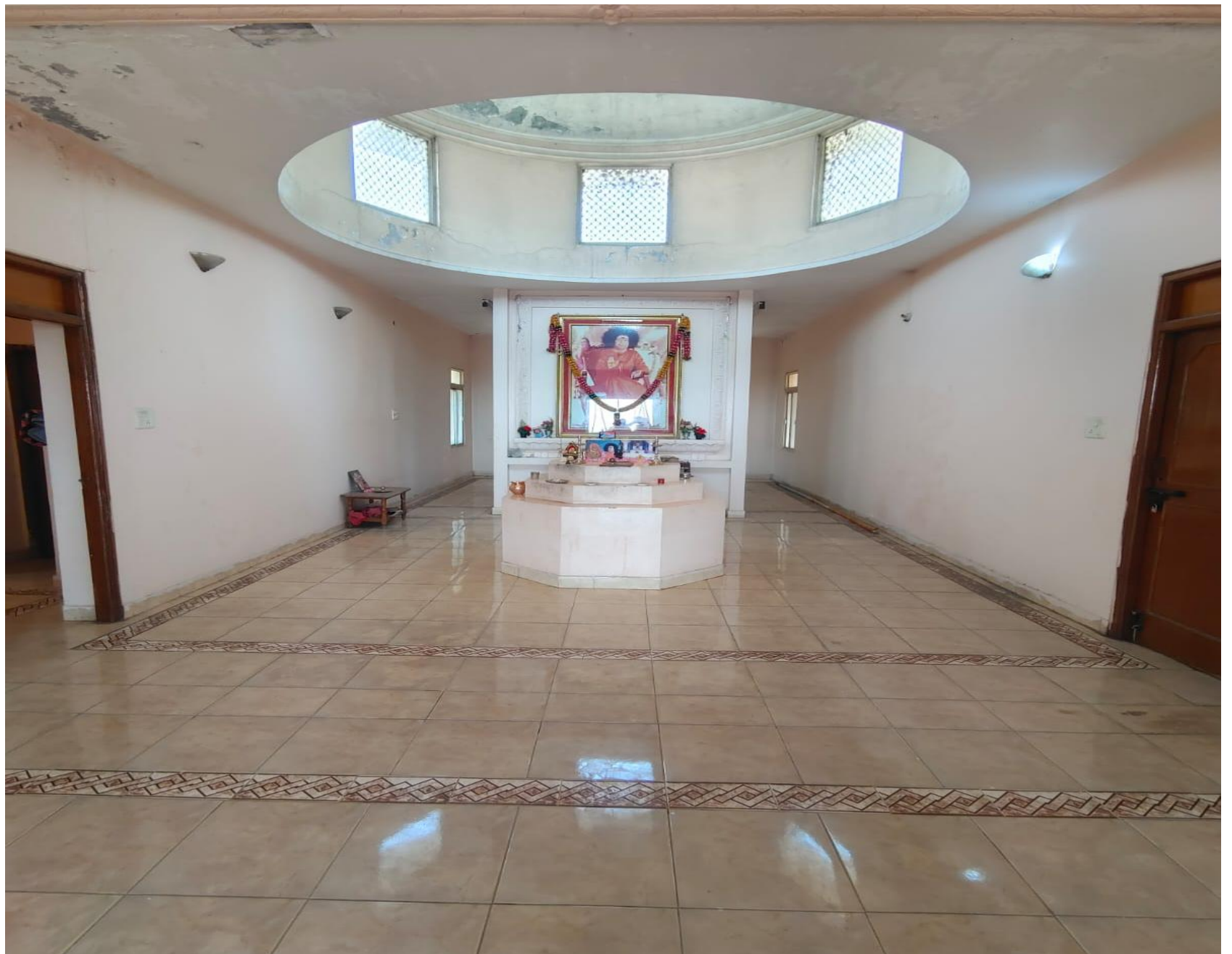


Teak



**Red
sandal**







Coconut



Mango



Badam



Tamarind



Sapodilla



Water
apple 🍏



Neredu





Watering
to
plantation



Magnolia -



**Red
sandal**



Badam







**Christmas
trees**



**Acalypha
Red Dwarf**



RED SANDAL



LANDSCAPING











LAND SCAPING- TRIMMING





**FLASH
MIXER**



**LANDSCAPING
-SPRINKLERS**









**DRIP
SYSTEM -
SPRIKCLERS**





LANDSCAPING







Syzygium



**Kadamba
Tree -
Burflower
Tree**



శ్రీగంధం

-





Indian
Almond
tree





MI K20 PRO
ESH RI

2020 /

THANK YOU
