

AUTOMATED LANDSCAPE IRRIGATION SYSTEM @ APARNA LAKE BREEZE - HYDERABAD OPERATION AND MAINTENANCE PROGRAMME

1. OVERVIEW OF IRRIGATION SYSTEM

The Irrigation System has been designed to irrigate the plantation through sprinkler and spray systems for lawn areas, drip emitter system for Ornamental trees and inline Sub-surface drip system for shrubs, ground covers etc.

2. FIELD ESP-LXD CONTROLLER: Refer to the attachments

3. SPRINKLER/SPRAYER IRRIGATION: Refer to the attachments

4. DRIP IRRIGATION: Refer to the attachments for On Surface XFD and Sub-Surface XFSDI Drip manual

5. IRRIGATION SIGNAL CABLES

The irrigation signal Maxi wire is solid-core, color-coded with each conductor in a polyethylene jacket suitable for direct burial. The decoders may be wired in sequence over any combination of the two-wire paths, including all stations on a at least single two-wire path. The path shall have the ability to extend up to 10,000 ft./3km to the end of the wire run over 14 AWG wire, or 15,000 ft./4.5km over 12 AWG.

6. PROGRAMMING AND OPERATION OF IRRIGATION CONTROL SYSTEM

Refer to the attachments RainBird manual

7.2 Solenoid Valves, ARVs, QCVs etc: Refer to the attachments manual

7. FIELD MAINTENANCE

7.1. Daily Maintenance

- 7.1.1. Checking and adjustment of all sprayers and sprinklers for proper coverage.
- 7.1.2. Replacing of clogged inline drip tube.

7.2. Weekly Maintenance

OTOMATED LANDSCAPE IRRIGATION SYSTEM @ APARNA LAKE BREEZE - HYDERABAD OPERATION AND MAINTENANCE PROGRAMME

- 7.2.1. All valves in the valve boxes and valve chambers should be checked and any problem and defects should be dealt with immediately.
- 7.2.2. Checking all poly pipes and connections.

3. Monthly Maintenance

- 7.3.1. Operate the irrigation system during day to check for any broken, plugged or misalignment equipment.
- 7.3.2. Checking the location of emitters and keeping them at the proper location next to the plants.

4. Half Yearly Maintenance

- 7.4.1. Flush all PVC lateral pipelines.
- 7.4.2. Flush all poly pipes.

REPORTS (Sample formats attached)

The above routine checking and maintenance should be carried out by the contractor and the reports should be submitted to the Contractor with the action taken at the end of each month.

Also the contractor should monitor the irrigation system operation on a daily basis and any defect or problem should be dealt with immediately.

- 1. Daily Reports
- 2. Weekly Reports
- 3. Monthly Reports

REPAIRS OF IRRIGATION SYSTEM

In case of breakdown or malfunction of an irrigation system, the contractor shall start repairs as rapidly as possible.