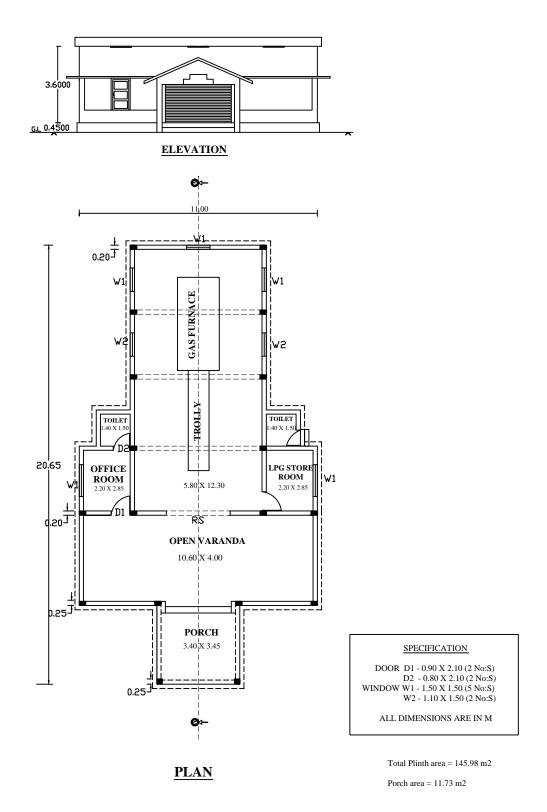
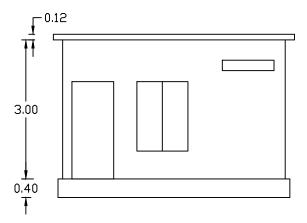
### MODERN GAS CREMATORIUM - PERMANENT FLAT ROOF TYPE



### WATCHMAN SHED



### **SPECIFICATIONS**

D1 - 0.90 X 2.10 (1 NO)

D2 - 0.80 X 2.10 (1 NO)

W - 1.10 X 1.50 (3 NO.S)

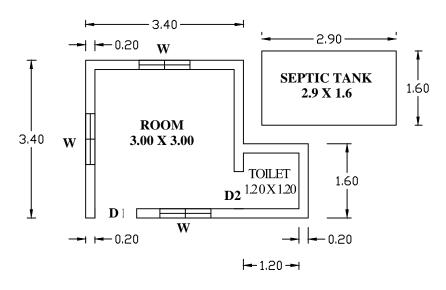
FOUNDATION-R.R-0.60 X 0.60 Sized BASEMENT - R.R. - 0.40 X 0.40 Sized

**ROOF SLAB - R.C.C. - 1:1.5:3** 

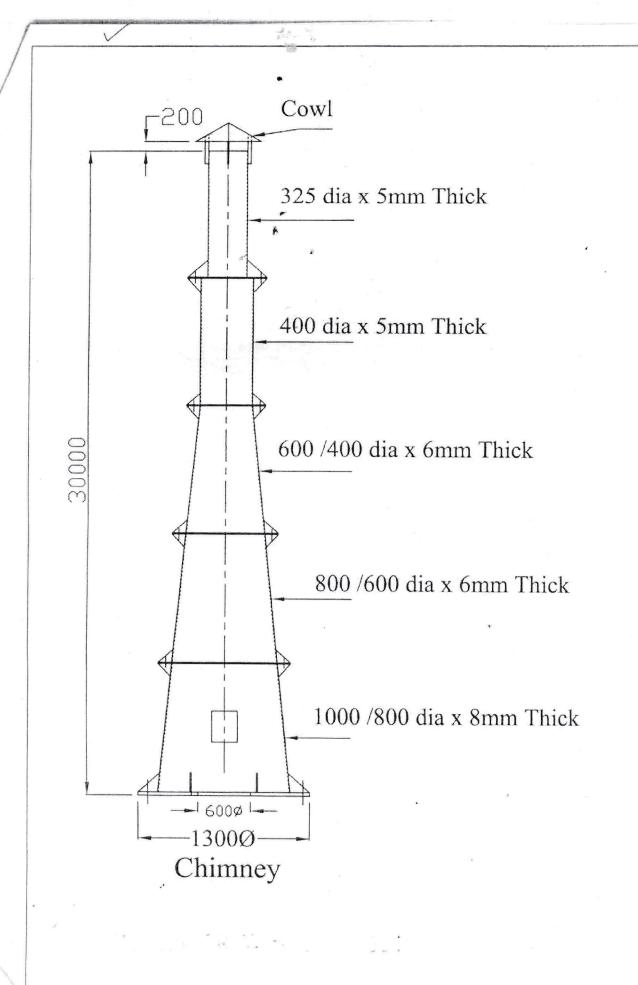
**SCALE - 1:1** 

ALL DIMENSIONS ARE IN METER

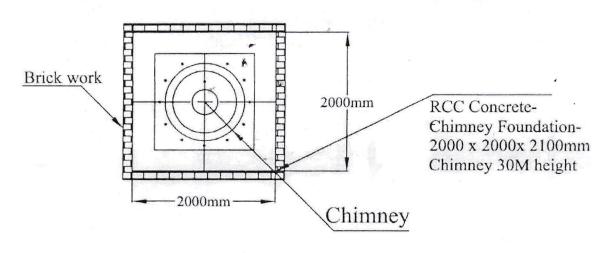
### **ELEVATION**

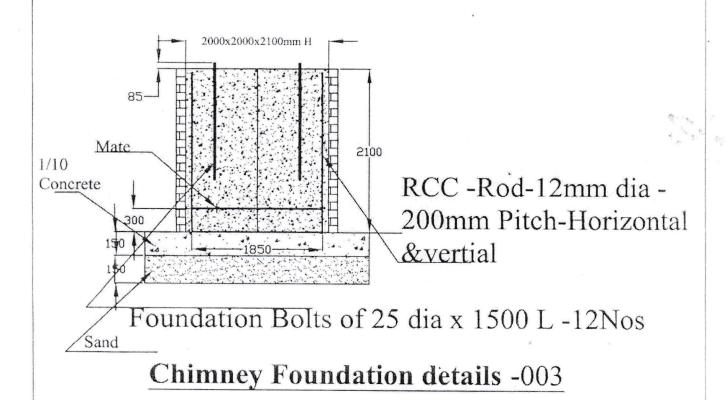


**PLAN** 



#- Depth of Concrete to be decided according to the soil condition

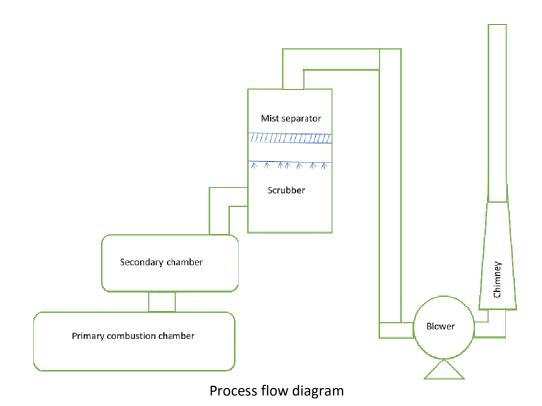




# SPECIFICATIONS FOR CREMATOR (FURNACE AND CHIMNEY) FOR LPG CREMATORIUM

## The Furnace System comprises of:

- 1. Primary Combustion Chamber
- 2. Body Loading Trolley
- 3. Hot Duct
- 4. Secondary Combustion Chamber
- 5. Venturi Wet Scrubber
- 6. Mist Eliminator
- 7. Dilution System
- 8. Stack
- 9. Control Panel
- 10. Ash Chamber



### **1.Technical Specifications**

1. Primary Chamber : 9ft x 6ft x 5ft

2. Secondary Chamber : Sufficient Size so that a residence

time of at least 1 sec at 1100°C is

provided for the exit gases from the primary chamber to get exposed to the

flame of the after burner.

3. Temperature in primary :  $800 \pm 50^{\circ}$ C

chamber

4. Temperature in Secondary :  $1050 \pm 50^{\circ}$ C

Chamber

5. Fuel : Liquified Petroleum Gas

6. Door of Primary Chamber : Front opening, vertical sliding, counter

weight balanced with view port.

7. Burner System : Full length burners on either side of primary

and secondary chamber

8. Gas pipe line : Made of Copper/M.S with pressure gauge

9. Insulation : Withstanding 1100°C

10. Chimney : 30m height

11. LP Gas cylinder : Minimum 8 number.

12. Power : Approximately 7kW, 3 phase connections

13. Emission : Parameters to meet KSPCB standards

14. Furnace bed & Structure : Stainless steel, strong, High quality

alumina/fire bricks with air holes to

secondary chamber.

15. Cremation time/body : 60-90 minutes.

16. LPG consumption :  $12 \pm 2 \text{ kg}$ .

#### The following requirements are also to be satisfied

 Wet Scrubber & cloud : For the removal of toxic gases and chamber particulate matter from the emission from

the secondary chamber before letting out

the emission into the atmosphere through

chimney of 30m height.

2. Dilution system with  $\ensuremath{\mathsf{ID}}$  : To bring down further the concentration of

Fan pollutant parameters in the emissions.

3. Combustion Air Supply : With blower for the supply of oxygen for

incineration of the body in the primary

chamber and supply of excess air to the

secondary chamber.

4. Trolley : Stretcher type trolley with rollers moving on

ball bearings for easy sliding in of the body

into the primary chamber.

5. Temperature Sensor : Cr/Al Thermocouple-one number in each

chamber.

6. Temperature control and : Solid State digital type temperature indicator

indication AC controlle

controller 0-1200°C in each chamber.

7. Safety controller : Solid state non-indicating controller

0+1200°C in each chamber to take care of

control activity in case of failure.

8. Ash removal : At rear side of primary chamber, scraping by

manual operation, with hinged type door

manually operated.

9. Painting : Steel items to be enamel painted