



V2-S2&S3&S4-3
ATTACHMENT-3 ANTI TERMITE TREATMENT



ANTI TERMITE TREATMENT

1. SCOPE

The scope of work includes setting up a chemical barrier against attack by subterranean termites while the building is under construction.

2. EXECUTION

General Unless otherwise specified all work will in general be executed as specified in IS: 6313 Part-II and as per approved specification of the agency having special know-how for the job.

All necessary work to ensure uniform distribution and proper penetration of treating solution will be done according to the instruction of the Engineer. Soil treatment will not be done when it is raining or when the soil is wet with rain or subsoil water. Once formed, the treated soil barrier will not be disturbed.

3. CHEMICALS AND RATE OF APPLICATION

Chemicals, conforming to IS 8963 and from approved agency, will be applied by pressure pumps, uniformly over the area treated. (1-part chemicals + 20 parts water = 1% emulsion).

4. TREATMENT OF PITS, TRENCHES & BASEMENT EXCAVATION

Foundations, basements etc. may either be fully enveloped by the chemical barrier or the treatment may start 500 mm below ground level. The bottom surface and sides of excavation up to a height of about 300 mm for column pits, walls, trenches and basements will be treated with emulsion @ 5 liters per sq.m. of surface area. Backfills around columns, walls, etc will be treated @ 7.5 liters per sq.m. of the vertical surface. Treatment will be done in stages following the



compaction of earth in layers. The treatment will be carried out after the ramming operation is done by rodding the earth at 150 mm centres close to the wall surface and spraying the emulsion in the specified dose.

5. **TREATMENT OF TOP SURFACE OF PLINTH FILLING**

Holes 50 mm to 75 mm deep at 150 mm centres both ways will be made with crow bars on the surface of compacted plinth fill. Emulsion at the rate of 5 litre per sq.m of surface will be applied prior to laying soling or subgrade. Special care will be taken to maintain continuity of the chemical barrier at the junction of vertical and horizontal surfaces.

6. **TREATMENT OF DOORS, WINDOWS & SOIL SURROUNDING PIPES, WASTES AND CONDUITS.**

Special care will be taken at the points where pipes and conduits enter the building and the soil will be treated for a distance of 150 mm and a depth of 75 mm at the point where they enter the building. All the wooden door/window frames on the ground floor of the buildings will be treated with the insecticidal solution.

7. **TREATMENT OF EXPANSION JOINTS**

These will receive special attention and will be treated in a manner approved by the Engineer.

8. **SAFETY PRECAUTIONS**

All chemicals used for anti-termite treatment are poisonous and hazardous to health. These chemicals can have an adverse effect upon health when absorbed through the skin, inhaled as vapours or spray mists or swallowed. Person using or handling these chemicals should be warned of these dangers and advised that absorption through the skin is most likely source of accident



poisoning. They should be cautioned to observe carefully the safety precautions given below.

These chemicals are usually brought to site in the form of emulsifiable concentrates. The containers should be clearly labelled and should be stored carefully so that children and pet cannot get at them. They shall be kept securely closed.

Particular care shall be taken to prevent skin contact with concentrates. Prolonged exposure to dilute emulsions shall also be avoided. Workers shall wear clean clothing and wash thoroughly with soap and water, especially before eating and smoking. In the event of severe contamination, clothing shall be removed at once and the skin washed with soap and water. If chemicals splash into eyes they shall be flushed with plenty of soap and water and immediate medical attention shall be sought.

The concentrates are oil solutions and present a fire hazard owing to the use of petroleum solvents. Flames shall not be allowed during mixing.

Care shall be taken in the application of chemicals to see that they are not allowed to contaminate wells or springs which serve as source of drinking water.

In case of poisoning suitable measure shall be taken for protection in accordance with IS 4015.

Locations

Pre-constructional anti termite treatment shall be given to all vulnerable areas susceptible to termite attack and shall include column pits, wall trenches, foundations, filling bellow the floors etc. as per IS: 6313 and as per the General specifications such as but not limited to Service building, canteen, Admin building & training centre, ware house, fire station, OHC, LHS building, AHS Building, DM plant and other water system offices and buildings, Security gate complex etc.