

# CERTIFICATE OF QUALITY



## काष्ठ विज्ञान एवं प्रौद्योगिकी संस्थान

(भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद)

पी ओ मल्लेश्वरम, बेंगलोर-560 003

## Institute of Wood Science & Technology

(Indian Council of Forestry Research & Education)

P.O. Malleswaram, Bangalore-560 003

No. Test/WBD/2002/2180.

To,  
M/S Advance Agrisearch Limited,  
Block No. 275B, N.H. No.8,  
Dhamdachi, Valsad-396001  
Gujarat.

**Sub: Bio-efficacy evaluation report on Termiguard super power EC-reg.**

**Ref: Your letter dated on 26 June 2002.**

Sir,

Sub: Bio efficacy evaluation report on Termiguard Superpower EC. -Reg.

Ref: Your letter dated on 26 June 2002.

With reference to the above, this is to inform you that we are in receipt of the demand draft (No.441133) for rupees 18000/- (rupees eighteen thousand) towards the charges for one year evaluation of your product, Termiguard Super Power EC. Further, please find the enclosed Bio-efficacy evaluation report of Termiguard Super Power EC. for one year test period. This is for your kind information that the tests were conducted as per standard procedure.

दिनांक  
Dated, the 21/7/02.

Yours faithfully,

(K.Satyanarayana Rao)  
Director

### BIO- EFFICACY EVALUATION REPORT ON TERMIGUARD SUPER POWER EC.

#### Materials and method:

The Cashew Nut Shell Liquid (Anacardium pericarp extract) Formulation, Termiguard Super Power EC. treatment was tested for efficacy against termites by three methods of application. They are (i) Surface spray, (ii) Dipping and (iii) Pressure impregnation. The product was applied for evaluation at the "redy to use" supplied concentration.

Three sets ( each set having seven stakes) of air-dried rubber wood rectangular stumps ( A highly susceptible wood Material) of standard sizes, were treated with Cashew Nut Shell Liquid Termigurd Super power EC. formulation. The first set was treated by dipping for thirty minutes, the second set by pressure impregnation (Set of rubber wood stakes were subjected to vacuum for 15 minutes followed by pressure impregnation of the solution at 50 pounds/sq.inch for 30 minutes) and the third set was given a surface spray. Fourth set of untreated seven stakes served as controls.

The above three sets of treated rubber wood were implanted in the timber test yard along with fourth set of controls (Untreated stakes).

Observations on the residual efficacy of the Herbal chemical for all the sets of treatment i.e., (1) Surface spraying with termiguard Super power EC. (2) Dipping with termiguard Super power EC. (3) Pressure impregnation with termiguard Super power EC., and controls was taken at bi-monthly intervals. The infestation level if any in the treated and control wood untreated material was recorded.

#### Results and discussion:

The cumulative observation of these treatments is given below:

Date of treatment : 31-05-01

Date of implantation : 13-06-01

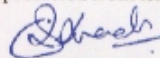
Tested concentration-At "redy to use" concentration.

Table-1 showing the **Bio-efficacy of termiguard Super power EC.** against termites.

Treatment	Percentage of damage in different treatments after implantation					
	2 Months	4 Months	6 Months	8 Months	10 Months	12 Months
Surface spray	0	0	0	0	0	0
Dipping	0	0	0	0	0	0
Pressure Impregnation	0	0	0	0	0	0
Controls (Untreated stakes)	2.5	4.0	24.5	60	70	78

From the table-1 it is evident that there was no termite infestation in the rubber wood Material treated with Termiguard Superpower EC. in all the methods of application during the observation period of 12 months after implantation. However, in untreated wood materials there was 2.5%, 4.0%, 24.5%, 60%, 70%, 78% damages respectively after 2,4,6,8,10 and 12 months of implantation.

Thus, as per the above experiment rubber wood treated with Termiguard Super power EC. is protected from termite attack for one year in field conditions.

  
HOD, WBD