# **MODEL ESTIMATE FOR RAISING THIRUGUKALLI (Euphorbia) PLANTATION TO AN AREA OF 5** HA. IN CHINNAIYAMPATTI KARADU RF IN NATHAM RANGE OF DINDIGUL FOREST DIVISION, **DINDIGUL DURING 2020-21**

Thirugukalli stups planted in one Ha. of plantation = 2000 Nos. Thirugukalli stups planted in 5 Ha. of plantation 10000 Nos. =

Labour Wage Rate Dindigul Circle FSR 2020-21 Rs. 441.65 /MD

| SI.<br>No | Quantity          | Details of works   | PWD<br>SSR /<br>FSR No. | Rate     | Per                                | Amount     |
|-----------|-------------------|--|-------------------------|----------|------------------------------------|------------|
| 1         | 5 Ha.             | Clearing light jungle in Chinnaiyampatti<br>RF in the planting area  | FSR Item<br>No.12.1.3   | 21031.37 | 1 Ha.                              | 105157.00  |
| 2         | 10000 Nos         | Clearing Thirugukalli bushes in patta<br>lands and dressing the Thirugukalli<br>stumps to the height of 4 feet which<br>includes cost and collection of<br>Thirugukalli stumps | As per<br>datasheet     | 4.69     | 1 No                               | 46900.00   |
| 3         | 10000 Nos         | Transport of Thirugukalli stumps from<br>patta land to Forest boundary through<br>private tractor includes hire charges,<br>loading and unloading charges                      | Lowest quotation        | 1000.00  | One tractor<br>load (2000<br>Nos.) | 5000.00    |
| 4         | 10000 Nos         | Digging crow bar holes and planting stumps (Thirugukalli)  | FSR item<br>No.6.4      | 3533.20  | 1000 No                            | 35332.00   |
| 5         | 10000 Nos         | Forming semi circular bund to the<br>plants by collecting stone and earth<br>from that area forming a revetment on<br>the lower side   | FSR item<br>No.5.25     | 1271.95  | 100 No                             | 127195.00  |
| 6         | 3 Kg              | Supply of coir pith for mulching purpose. 500 gm coir pith per pit   | Lowest quotation        | 9.00     | 1 kg                               | 23.00      |
| -7        | 34 days           | Supply of water to the Thirugukalli<br>stumps through private lorry capacity of<br>20000 ltrs. Weekly twice 10 Ltrs per<br>stumps from December to March 34<br>days            | Lowest quotation        | 3800.00  | 1 lorry                            | 1292000.00 |
|           | 3400000 Ltrs      |  |                         |          |                                    |            |
| 8         | 34 days<br>20 Nos | Engaging mazdoor for watering the<br>plants by drawing water from lorry (500<br>plants / mazdoor / watering day)   | Approved<br>rate        | 441.65   | 1 No<br>34 days                    | 300322.00  |
| 9         | LS                | Contingencies  |                         |          |                                    | 3071.00    |
| -         | 10                | TOTAL  |                         |          |                                    | 1915000.00 |

#### Specification:

## I. Clearing light jungle growth:

Clearing light jungle growth in the planting area, Rate requested as per Dindigul Circle FSR item No.12.1.3. Rs.21031.37/ Ha.

## II. Cost and collection of stumps:

Thirugukalli is a throny species and it is laborious work to cut and collect Thirugukalli stumps. There is no specific provisions in FSR and PWDSSR to execute this work. In PWDSSR Annexure I (III Semi skilled category), Schedule item No.2, there is provision for Axe Mazdoor at the rate Rs.469 per day. Thirugukalli one labour can clear Thirugukalli bush and dress 100 Nos of Thirugukalli stumps on one day. Hence collection cost per Thirugukalli stump is Rs.4.69 (Rs.469/100 Nos)

#### III. Transport of stumps from patta land to Forest boundary includes loading and unloading charges:

The rate of transport of Thirugukalli stumps from patta land to Forest boundary (which includes loading and unloading charges on patta land and Forest boundary) is Rs.1000/- quoted for this item of work is based on the lowest quotation.

#### IV. Digging crow bar holes and planting stumps during non-rainy season:

As per FSR 2020-21. The rate requested for digging crow bar holes and planting stumps FSR Item No.6.4 @ Rs.3533.20/1000 Nos.

#### V. Forming semi circular bund:

Since Planting works are carried out during summer season, watering to the planted stumps is very essential. To hold the water, forming semi circular bund for each stump is very essential. The rate quoted in this model estimate is Rs.1271.95 per 100 Nos. as per approved FSR.

### VI. Supply of Coir Pith:

Watering the stumps during summer season, applying of coir pith for every pit for avoiding water loss. This coir pith improves the water holding capacity (more than 5 times its dry weight) contributing towards increased soil moisture. 500 gm coir pith for each fit and a total quantity of 5000 kg for 10000 Nos. of stumps. The rate quoted for this work is based on the lowest quotation from local sources.

#### VII. Watering through private lorry:

One plant hold maximum of 10 litre of water. Hence for 10000 Nos of stumps planted in 5 Ha., 34,00,00,000 ltr of water is needed for one watering day. 34 nos. of watering days for weekly twice is necessary for avoiding casulaity of stumps. The local rate for cost of water for 10,000 litre is Rs.2000/-. But it is proposed to carry out the work in Forest area to hire charge for private lorry has to be charged. Hire charge for private lorry is Rs.1800/- for 10000 litre. Therefore cost of water including transport is Rs.3800/- for 10000 ltr of water.

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DISTRICT FOREST OFFICER DINDIGUL DIVISION, DINDIGUL