



Department of Agriculture  
**BUREAU OF SOILS AND WATER MANAGEMENT**  
**"NATIONAL SOIL SAMPLING AND TESTING FOR FERTILITY AND SUITABILITY ASSESSMENT"**  
**FERTILIZER-GUIDE FOR RICE**  
**PROVINCE OF CAMARINES SUR**

| Municipality  | Fertilizer-Guide Group |                               | <b>Additional 10-20 bags/ha Organic Fertilizer is recommended for all options</b> |    |                               |  |     |                               |                      |  |                               |  |    |  |                      |    |    |  |
|---------------|------------------------|-------------------------------|---|----|-------------------------------|--|-----|-------------------------------|----------------------|--|-------------------------------|--|----|--|----------------------|----|----|--|
|               |                        |                               | INBRED RICE   |    |                               |  |     |                               | HYBRID RICE          |  |                               |  |    |  |                      |    |    |  |
|               | Number                 | Description                   | WET SEASON  |    |                               | DRY SEASON   |     |                               | WET SEASON           |  |                               | DRY SEASON                                 |    |  |                      |    |    |  |
|               |                        |                               | Nutrient Requirement  |    |                               | Recommended Fertilizer Rate (bags/hectare)   |     |                               | Nutrient Requirement |  |                               | Recommended Fertilizer Rate (bags/hectare) |    |  | Nutrient Requirement |    |    | Recommended Fertilizer Rate (bags/hectare)   |
| Texture-N-P-K | N                      | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O  | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O   | N   | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O     | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O                           | N  | P <sub>2</sub> O <sub>5</sub>  | K <sub>2</sub> O     |    |    |  |
| LIBMANAN      | 004                    | L-L-L-H                       | 100   | 60 | 7                             | Option 1:<br>(1st Application): 1.00 (14-14-14-); 6.00 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.25 (0-0-60); | 120 | 60                            | 7                    | Option 1:<br>(1st Application): 1.00 (14-14-14-); 6.00 (0-18-0);<br>(2nd Application): 2.50 (46-0-0);<br>(3rd Application): 2.50 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.25 (46-0-0); 0.25 (0-0-60); | 120                           | 70   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 7.00 (0-18-0);<br>(2nd Application): 2.50 (46-0-0);<br>(3rd Application): 2.50 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.25 (0-0-60); | 140                  | 70 | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 7.00 (0-18-0);<br>(2nd Application): 3.00 (46-0-0);<br>(3rd Application): 3.00 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.75 (46-0-0); 0.25 (0-0-60); |
| LIBMANAN      | 003                    | L-L-L-MH                      | 100   | 60 | 20                            | Option 1:<br>(1st Application): 3.00 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.75 (46-0-0);<br>(3rd Application): 1.75 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.75 (0-0-60); | 120 | 60                            | 20                   | Option 1:<br>(1st Application): 3.00 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 2.25 (46-0-0);<br>(3rd Application): 2.25 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.25 (46-0-0); 0.75 (0-0-60); | 120                           | 70   | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 1.00 (0-0-60); | 140                  | 70 | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 2.50 (46-0-0);<br>(3rd Application): 2.50 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.75 (46-0-0); 1.00 (0-0-60); |
| LIBMANAN      | 012                    | L-L-MH-H                      | 100   | 20 | 7                             | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.00 (46-0-0); 1.50 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0);<br>Option 2:<br>(1st Application): 2.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120 | 20                            | 7                    | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.50 (46-0-0); 1.50 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 2.00 (16-20-0);<br>(2nd Application): 2.50 (46-0-0);                                      | 120                           | 30   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.50 (46-0-0); 2.75 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 3.00 (16-20-0);<br>(2nd Application): 2.25 (46-0-0);                                      | 140                  | 30 | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.75 (46-0-0); 2.56 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 3.00 (16-20-0);<br>(2nd Application): 2.50 (46-0-0);                                      |
| LIBMANAN      | 008                    | L-L-ML-H                      | 100   | 40 | 7                             | Option 1:<br>(1st Application): 1.00 (14-14-14-); 1.87 (46-0-0); 3.67 (0-18-0);<br>(2nd Application): 1.09 (46-0-0);<br>(3rd Application): 1.09 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120 | 40                            | 7                    | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.50 (46-0-0); 3.75 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120                           | 50   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.50 (46-0-0); 5.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 140                  | 50 | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.75 (46-0-0); 5.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.50 (46-0-0);                                      |
| LIBMANAN      | 007                    | L-L-ML-MH                     | 100   | 40 | 20                            | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.30 (46-0-0); 2.22 (0-18-0);<br>(2nd Application): 1.09 (46-0-0);<br>(3rd Application): 1.09 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120 | 40                            | 20                   | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.75 (46-0-0); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120                           | 50   | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.50 (46-0-0); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 140                  | 50 | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.75 (46-0-0); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.50 (46-0-0);                                      |
| LIBMANAN      | 068                    | M-L-L-H                       | 90  | 60 | 7                             | Option 1:<br>(1st Application): 1.00 (14-14-14-); 6.00 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.25 (0-0-60); | 100 | 60                            | 7                    | Option 1:<br>(1st Application): 1.00 (14-14-14-); 6.00 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.25 (0-0-60); | 110                           | 70   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 7.00 (0-18-0);<br>(2nd Application): 2.25 (46-0-0);<br>(3rd Application): 2.25 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.25 (0-0-60); | 120                  | 70 | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 7.00 (0-18-0);<br>(2nd Application): 2.50 (46-0-0);<br>(3rd Application): 2.50 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.25 (0-0-60); |

Application schedule:  
 1st - after last harrowing  
 2nd - 10-14 DAT  
 3rd - 20-25 DAT  
 DAT - days after transplanting

Fertilizer materials:  
 Complete (14-14-14)  
 Urea (46-0-0)  
 Ammophos (16-20-0)  
 Solophos (0-18-0)  
 Muriate of Potash (0-0-60)



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|--------------|------------------------|-------------|---|-------------------------------|------------------|--|-------------------------------|------------------|----------------------|--|------------------|--|-------------------------------|--|----------------------|-------------------------------|------------------|--|
|              |                        |             | INBRED RICE   |                               |                  |  |                               |                  | HYBRID RICE          |  |                  |  |                               |  |                      |                               |                  |  |
|              | Number                 | Description | WET SEASON  |                               |                  | DRY SEASON   |                               |                  | WET SEASON           |  |                  | DRY SEASON                                 |                               |  |                      |                               |                  |  |
|              |                        |             | Nutrient Requirement  |                               |                  | Recommended Fertilizer Rate (bags/hectare)   |                               |                  | Nutrient Requirement |  |                  | Recommended Fertilizer Rate (bags/hectare) |                               |  | Nutrient Requirement |                               |                  | Recommended Fertilizer Rate (bags/hectare)   |
|              |                        |             | N   | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | N                    | P <sub>2</sub> O <sub>5</sub>  | K <sub>2</sub> O | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O   | N                    | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |  |
| LIBMANAN     | 067                    | M-L-L-MH    | 90  | 60                            | 20               | Option 1:<br>(1st Application): 3.00 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.75 (0-0-60); | 100                           | 60               | 20                   | Option 1:<br>(1st Application): 3.00 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.75 (46-0-0);<br>(3rd Application): 1.75 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 0.75 (0-0-60); | 110              | 70   | 30                            | Option 1:<br>(1st Application): 4.50 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.75 (46-0-0);<br>(3rd Application): 1.75 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 1.00 (0-0-60); | 120                  | 70                            | 30               | Option 1:<br>(1st Application): 4.50 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0); 1.00 (0-0-60); |
| LIBMANAN     | 076                    | M-L-MH-H    | 90  | 20                            | 7                | Option 1:<br>(1st Application): 1.00 (14-14-14-); 1.75 (46-0-0); 1.50 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0);<br>Option 2:<br>(1st Application): 2.00 (16-20-0);<br>(2nd Application): 2.25 (46-0-0);                                      | 100                           | 20               | 7                    | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.00 (46-0-0); 1.50 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0);<br>Option 2:<br>(1st Application): 2.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 110              | 30   | 7                             | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.25 (46-0-0); 2.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0);<br>Option 2:<br>(1st Application): 3.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120                  | 30                            | 7                | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.50 (46-0-0); 2.75 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 3.00 (16-20-0);<br>(2nd Application): 2.25 (46-0-0);                                      |
| LIBMANAN     | 072                    | M-L-ML-H    | 90  | 40                            | 7                | Option 1:<br>(1st Application): 1.00 (14-14-14-); 1.75 (46-0-0); 3.75 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);                                      | 100                           | 40               | 7                    | Option 1:<br>(1st Application): 1.00 (14-14-14-); 1.87 (46-0-0); 3.67 (0-18-0);<br>(2nd Application): 1.09 (46-0-0);<br>(3rd Application): 1.09 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 110              | 50   | 7                             | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.25 (46-0-0); 5.00 (0-18-0);<br>(2nd Application): 1.20 (46-0-0);<br>(3rd Application): 1.20 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120                  | 50                            | 7                | Option 1:<br>(1st Application): 1.00 (14-14-14-); 2.50 (46-0-0); 5.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      |
| LIBMANAN     | 071                    | M-L-ML-MH   | 90  | 40                            | 20               | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.25 (46-0-0); 2.25 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);                                      | 100                           | 40               | 20                   | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.30 (46-0-0); 2.22 (0-18-0);<br>(2nd Application): 1.09 (46-0-0);<br>(3rd Application): 1.09 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 110              | 50   | 30                            | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.25 (46-0-0); 2.22 (0-18-0);<br>(2nd Application): 1.20 (46-0-0);<br>(3rd Application): 1.20 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      | 120                  | 50                            | 30               | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.50 (46-0-0); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);                                      |

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Fertilizer materials:  
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