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YEARSICARDA  
Science for Better Livelihoods in Dry Areas

**VARIETY, TECHNOLOGY AND SEED SYSTEM DEVELOPMENT FOR PULSES IN ODISHA**  
(Government of Odisha (Agril Dept.) – ICARDA Collaborative Initiative)

**Quick Reference for Farmers for**  
**Prophylactic Plant Protection Measures for Pulses crops under ICARDA – Odisha Pulses Project**

| PP Measures                                  | Application guide | Active Ingredient (AI)                            | Chemical Brand Name   | Dose (gm/ltr etc.)                 | 0 DAS | 7 DAS | 14 DAS | 21 DAS | 30 DAS | 45 DAS | 60 DAS | 70 DAS | Remarks              |
|--|-------------------|---|-----------------------|------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|----------------------|
| Post emergence herbicide                     | ETL – na          | Quizalofop ethyl (Herbicide-Post emergence-5% EC) | Targasuper (Dhanuka)  | 2ml/ltr of Water<br>*1 ltr/ha      |       |       |        | √      |        |        |        |        |                      |
| Whitefly/ Sucking pest                       | ETL - 5%          | Thiomethasam (25% WG)                             | Evident (Biostad)     | 3gm/10 ltr of water<br>*150 gm/ha  |       |       |        |        | √      | √      |        |        | SOS spray by farmers |
| Leaf Cutter                                  | ETL - 5%          | Triazophos (35% EC) + Deltamethirin (1% EC)       | Jadu (Bharat)/ Attain | 2ml/ltr of Water<br>*1 ltr/ha      |       |       |        | √      | √      | √      |        |        | SOS spray by farmers |
| Powdery mildew/ Leaf spot                    | ETL - 5%          | Carbendazim (12%) + Mancozeb (63%)                | SAAF (UPL)            | 2ml/ltr of Water<br>*1 ltr/ha      |       |       |        |        | √      |        |        |        | SOS spray by farmers |
| Pod/fruit borer                              | ETL 5-10%         | Flubendiamide (240 SC)/ Imidiachloprid            | Flame (Bayer)/ Admin  | 3ml/10 ltr of water<br>*150 ml/ha  |       |       |        |        |        | √      | √      |        | SOS spray by farmers |
|  |                   |   |                       |                                    |       |       |        |        |        |        |        |        |                      |
| 2% DAP spray (flowering and Pod Development) | ETL - 5%          | Diammonium Phosphate (18-46-0)                    | IFFCO                 | 250 gm/15 ltr water<br>*16.5 kg/ha |       |       |        |        | √      | √      |        |        | SOS spray by farmers |

**ETL** - Economic Thresh hold Limit; **DAS** – Days after Sowing; **SOS** – spray as per urgency in field;