

## Technology developed and recommended

Sr. No.	Recommendations
1	<p><b>Nutrient management through organic sources in wheat (GW 1) under <i>Bhal</i> region (2023):</b></p> <p>The farmers of <i>Bhal</i> and Coastal Agro-climatic Zone growing <i>durum</i> wheat organically are recommended to apply about 600 kg castor cake/ha (75% RDN) before <i>kharif</i> season and seed treatment of bio NPK liquid biofertilizer (5 ml/kg seed) for obtaining higher yield and net return.</p>
2	<p><b>Nutrient management through organic sources in wheat (GW 496) under <i>Bhal</i> region (2023):</b></p> <p>The farmers of <i>Bhal</i> and Coastal Agro-climatic Zone growing wheat (GW 496) organically with restricted irrigation (Two irrigations 21 DAS and 45 DAS) are recommended to apply about 1.8 t castor cake/ha (75% RDN) before <i>kharif</i> season and apply seed treatment of bio NPK liquid bio fertilizer (5 ml/kg seed) for obtaining higher yield and net return.</p>
3	<p><b>Nutrient management through organic sources in chickpea in <i>Bhal</i> region (2023):</b></p> <p>The farmers of <i>Bhal</i> and Coastal Agro-climatic Zone growing chickpea (GJG 3) organically are recommended to apply 2 t FYM/ha and 250 kg castor cake/ha before <i>kharif</i> season for getting higher yield and net return.</p>
4	<p><b>Effect of different sources and levels of sulphur on growth, yield and quality of dill seed under restricted irrigation (RI) in <i>Bhal</i> region (2023):</b></p> <p>The farmers of <i>Bhal</i> and Coastal Agro-climatic zone growing dill seed under restricted irrigation are recommended to adopt any one of following recommendation for getting higher yield and net return:</p> <p style="padding-left: 40px;">Apply 10 kg S/ha through gypsum (77 kg/ha) before 15 days of sowing along with recommended dose of fertilizer (NPK: 40:20:00 kg/ha and FYM 2.5 t/ha).</p> <p style="text-align: center;"><b>Or</b></p> <p style="padding-left: 40px;">Apply 10 kg S/ha through ammonium sulphate at the time of sowing along with recommended dose of fertilizer (NPK: 31:20:00 kg/ha and FYM 2.5 t/ha).</p>

5	<p><b>Effect of nitrogen, phosphorus and bio-Fertilizer on growth and yield of chickpea under restricted irrigation in <i>Bhal</i> region (2022):</b></p> <p>The farmers of <i>Bhal</i> and Coastal Agro-climatic zone growing chickpea under restricted (one) irrigation at 30 DAS are recommended to apply 10 kg N and 40 kg P<sub>2</sub>O<sub>5</sub>/ha at the time of sowing and remaining 10 kg N/ha at 30 DAS for getting higher yield and net return. In addition, FYM 2.5 t/ha is to be applied as basal.</p>
6	<p><b>Effect of different multi-micronutrient mixture grade application on growth yield and quality of chickpea under un-irrigated condition in <i>Bhal</i> region (2021):</b></p> <p>The farmers of <i>Bhal</i> and Costal Agro-climatic Zone growing chickpea under conserved soil moisture condition are recommended to apply 1 % foliar sparay of Government notified multi micronutrient grade I (Fe:2.0, Mn: 0.5, Zn: 4.0, Cu: 0.3 and B: 0.5 per cent) OR Grade II(Fe:6.0, Mn: 1.0, Zn: 4.0, Cu: 0.3 and B: 0.5 per cent) at 30, 45 and 60 days after sowing along with 20 kg N and 40 kg P<sub>2</sub>O<sub>5</sub>/ha as basal for getting higher yield, net return and iron content in seed.</p>
7	<p><b>Evaluation of insecticides for the control of stem borer and wireworm infesting un-irrigated wheat (2020):</b></p> <p>The farmers of <i>Bhal</i> and Costal (Agro Climatic Zone –VIII) growing un-irrigated wheat are advised to treat seeds with thiamethoxam 30 FS @ 8 ml/kg seeds or imidacloprid 600 FS @ 8 ml/kg seeds using equal quantity of water and drying under shade before sowing for effective control of stem borer and wireworm.</p>
8	<p><b>Evaluation of different levels of nitrogen, phosphorus and bio-fertilizer on yield of irrigated wheat (<i>Triticum aestivum</i> L.) In <i>Bhal</i> region (2019):</b></p> <p>The farmers of <i>Bhal</i> and Coastal Agro-climatic Zone growing wheat (GW 496) are advised to apply 60 kg N/ha and 60 kg P<sub>2</sub>O<sub>5</sub>/ha as a basal and 60 kg N/ha in two equal split application at 30 DAS and 45 DAS after irrigation for obtaining higher grain yield and net return.</p>

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**Evaluation of insecticides for the control of stem borer and wireworm infesting un-irrigated fodder sorghum (2018):**

The farmers of *Bhal* and Costal region )Agro Climatic Zone –VIII( growing un-irrigated fodder sorghum are recommended to treat seeds with thiamethoxam 30 FS, 8 ml/ kg seeds using equal quantity of water before 12 hours of sowing followed by drying under shade for preventing stem borer and wire worm infestation.