

Supplementary Table 1 Details of basic characters of different rice varieties

Characters	Varieties					
	Maudamani(V1)	Kamal (V ₂)	Poornabhog (V ₃)	Nua Chinikamini (V ₄)	Naveen (V ₅)	Kalinga Dhan (V ₆)
Season	<i>Kharif</i>	<i>Kharif</i>	<i>Kharif and rabi</i>	<i>Kharif</i>	<i>Kharif and rabi</i>	<i>Kharif and rabi</i>
Duration (days)	130–135 (141)	130 (133)	140 (129)	145–150 (151)	115–120 (115)	105–110 (98)
1000 grain wt.(g)	22.7	14.2	19.8	12.2	20.0	23.2
Rice grade	Short bold	Medium Bold	Long slender (aromatic)	Short Bold	Medium Bold	Long Bold
Avg. yield (q/ha)	50	40	45–50	35–40	50–60	40
Special features	Non-Lodging, suitable for mechanical harvesting, resistant to leaf blast, neck blast.	Non Lodging	Resistant to neck blast gall midge and sheath blight.	Resistant to sheath rot, rice Tungrovirus	Resistant to Blast, Sheath blight, Brown spot	Susceptible to all diseases
Year of release	2018	2016	2012	2010	2006	1973

Source: Website of National Rice Research Institute, Cuttack, Indian Council of Agricultural Research and Ministry of Agriculture, Govt of India.

Figures in parenthesis denotes duration of varieties in the experiment.

Supplementary Table 2 Method of preparation of organic formulations

Organic formulation	Preparation Process	Days required	Precautions taken	Application
<i>Bijamrutha</i>	1 L water+ 250 ml cow urine + 250 g cow dung + 2.5 g Lime.	2–3	Materials should be mixed and stirred properly	Seedling root dip for 2–3 h before transplanting.
<i>Jeevamrutha</i>	200 L water + 10 kg cow dung + 10 L cow urine + 2 kg jaggery + 2 kg pulse flour + 50 g virgin soil.	7–10	Materials should be mixed properly and kept in shade.	i) Basal apply at: 7 DAT ii) Panicle Initiation 50% flowering
<i>Panchagavya</i>	5 kg cow dung + 1 kg ghee. After 3 days add 3 L cow urine. Then after 15 days add 2 L cow milk and 2 kg curd in the mixture.	25–30	Materials should be mixed properly at proper interval and should be stirred on daily basis. It should be kept in shade.	Foliar spray at: 21 DAT Panicle Initiation 50 %flowering
EM solution I	Add 1 kg of jaggery with 1 L of stock EM solution I and 1 L of water.	1–2	Should be kept in a well container and mixed well.	Basal apply at 7 DAT Panicle Initiation 50% flowering