

Rice (cv. Lalat)

Basic data and fertilizer adjustment equations.

Nutrient	Basic data			Fertilizer adjustment equations
	NR (kg/q)	Cs (%)	Cf (%)	
N	3.2	53	38	$FN = 8.4 T - 1.4 SN$
P_2O_5	1.2	75	24	$F P_2O_5 = 5.0 T - 3.1 S P_2O_5$
K_2O	3.2	70	48	$FK_2O = 6.6 T - 1.5 S K_2O$

Where NR - Nutrient Requirement (Kg/q)

Cs - Soil Efficiency;

Cf- Fertilizer Efficiency

T - Targeted yield(Q/ha);

SN - Soil available N (Kg/ha)

SP₂O₅ - Soil available P₂O₅ (Kg/ha)

SK₂O - Soil available K₂O (Kg/ha)

Ready reckoner of fertilizer doses at varying soil test values for specific yield targets.

Available soil nutrients (kg ha ⁻¹)			Fertilizer nutrients required (kg ha ⁻¹)								
			Targeted yield (40 q ha ⁻¹)			Targeted yield (45 q ha ⁻¹)			Targeted yield (50 q ha ⁻¹)		
N	P ₂ O ₅	k ₂ O	N	P ₂ O ₅	k ₂ O	N	P ₂ O ₅	k ₂ O	N	P ₂ O ₅	k ₂ O
100	30	80	196	107	144	238	132	177	280	157	216
120	35	100	168	92	114	210	114	147	252	141	186
140	40	120	140	76	84	182	101	117	224	126	156
160	45	140	112	60	54	154	85	87	196	110	126
180	50	160	84	45	14	126	70	57	168	95	96
200	55	180	56	30	10	98	54	27	140	79	66
220	60	200	28	14	10	70	39	10	112	64	36
230	65	220	14	10	10	56	23	10	98	48	10
240	70	250	10	10	10	42	10	10	84	33	10
250	80	300	10	10	10	28	10	10	70	10	10

(NB : when the calculated fertilizer requirement values are almost zero, a minimum dose, say 20 kg ha⁻¹ for N and 10 kg ha⁻¹ each for P and K are added to the calculated values to bring the dose to a reasonable one).