



















forms of iron						
A total of four pedons were exposed. The following Table gives results of One of the Test pedon)						
No. &Name of Pedon	Depth (cm)	Total Fe (%)	Fe-O (%)	DTPA- Fe (mg kg ⁻¹)		
Bhubane- swar	0-17	3.8	0.52	428		
	17-33	4.8	0.98	398		
	35-53	6.3	1.23	384		
	53-120	5.8	1.78	372		

Classification of iron toxic soils of Orissa								
Ped -on No.	Order	Sub- Order	Great Group	Sub-Group	Family	Series		
1.	Inceptisol	Ustepts	Haplu- stepts	Aquic Haplu- stepts	Coarse, loamy,mixed , perthermic	Bhubaneswar		
2.	Inceptisol	Ustepts	Haplu- stepts	Fluven-tic Haplu- stepts	-do-	Chiplima		
3.	Alfisol	Ustalfs	Rhodu- stalfs	Kanh- aplic Rhodu- stalfs	-do-	Gajamara		
4.	Alfisol	Ustalfs	Paleu- stalfs	Kandic Paleu-	-do-	Duburi		















	Effect yic Field T	s of K eld of rials, Av	appl rice ç <u>. of 3 y</u>	icatior grown _{ears, pl}	n on l on ir 1 4.9, D	eaf br on tox <u>TPA-Fe</u>	onzin (ic soi <u>396 mg</u>	g and I <u>kg-1</u>
		Leaf bronzing (1-9 scale)		Grain yield (q ha ⁻¹)		Straw yield (q ha-1)		
	Levels of K ₂ O(kg ha ⁻¹	Jaya Suscept-ible	Mahsuri Tolerant	Jaya Suscept-ible	Mahsuri Tolerant	Jaya	Mahsuri	
	0	8	3	10.3	18.2	12.5	25.0	
	40	7	2	13.8	22.1	16.9	27.7	
	80	5	2	19.4	22.7	22.9	33.6	
	120	5	1	22.1	26.8	28.8	35.7	
-	160	3	1	24.4	28.8	31.7	37.4	
	Mean			18.0	23.7	22.6	31.9	
presentation was made	at the IPI-OUAT-IPNI	International Sympo	osium, 5-7 Novem	ber 2009, OUAT, Bhi	ıbaneswar, Orissa	a, India. The Role an	d Benefits of Potas	sium in Improving Nutrie



















