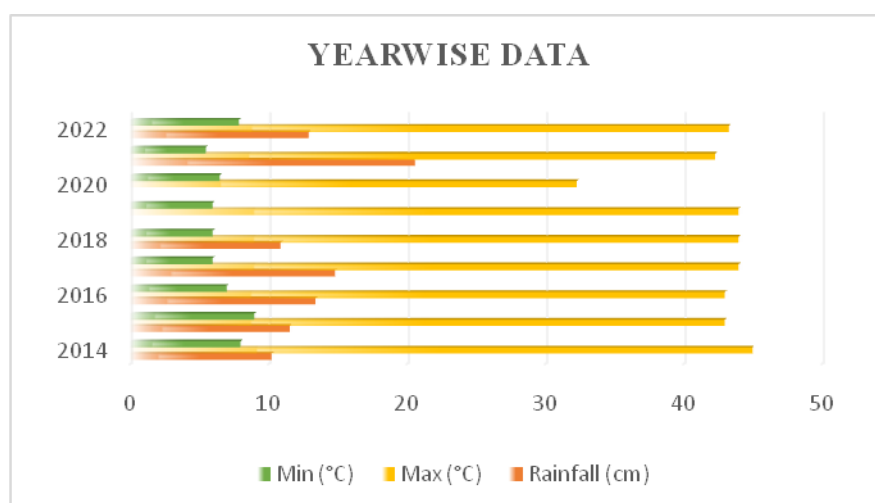


Supplementary Table 1 List of germplasms

Germplasm	Parentage	Specification
Sahabhagidhan	IR 55419-4*2/WAY RAREM (rkbodisha.in)	DT
DRR44	IR 71700-247-1-1-2/IR 03 L120 (rkbodisha.in)	DT
DRR42	Aday Sel/*3 IR 64 (rkbodisha.in)	DT
Vandana	C22/Kalakeri	DT
Nagina 22	Selection from landrace Rajbhog (Stephen <i>et al.</i> 2022)	DT
Swarna	Vasista/Mahsuri (Rice-portal)	DS, HYV
Lalat	Obs 677/IR2071//Bikram/W 1263 (Panda <i>et al.</i> 1987)	HYV
Kerala Sundari	Unknown	L
Bhuri	Unknown	L
Maniksal	Unknown	L
Chhotodidi	Unknown	L
Lohasal	Unknown	L
Aswinsal	Unknown	L
Morogjhota	Unknown	L
Sonagori	Unknown	L
Tulsikamal	Unknown	L
Bhundi	Unknown	L
Bhadoi	Unknown	L
Kelesh	Unknown	L
Vasamanik-i	Unknown	L
Velchi-i	Unknown	L
Langalmathi	Unknown	L
Bhramarmali	Unknown	L
Chandrakanti	Unknown	L
Kalpana	Unknown	L
Neta	Unknown	L
Lakkansal	Unknown	L
Vutmuri	Unknown	L
Kashiphoool	Unknown	L

DT, Drought tolerant; DS, Drought susceptible; HYV, High yielding variety.



Supplementary Fig 1 Rainfall pattern and range of temperature from 2014–22.

Supplementary Table 2 Month-wise rainfall in 2021 and 2022

Rainfall (mm)		
Month	2021	2022
January	0.0	25.0
February	0.0	32.0
March	8.0	0.0
April	0.2	6.0
May	27.9	77.0
June	33.6	131.0
July	30.1	171.0
August	11.9	397.0
September	33.8	175.0
October	37.1	279.0
November	6.6	0.0
December	17.0	0.0
Total	206.2	1293

Supplementary Table 3 ANOVA table showing significant variation from the germplasms in each trait

ANOVA TABLE															
Source	PH	NT	NP	PL	DF	DM	RL	LR	LD	TG/ P	FG/ P	UG/ P	SF	1000 SW	SY/P
Treatment	99.1 1**	10.78 **	8.6 5**	17.0 9**	513. 9**	314. 3**	8.26 **	2.00 *	13.4 7**	11.6 6**	14.2 7**	10.9 1**	13.3 2**	17.62 **	9.36**
Replication	0.93	7.58	3.6 1	0.31	4.46	0.02	0.07	0.29	0.11	5.70	5.08	1.07	0.01	1.90	0.65

**significant at 1% level; *significant at 5% level.

Supplementary Table 4 The germplasms falling under a single group having <2.65 difference within themselves for seed yield/plant

The highest yielding lines based on the CD value of SY/P (i.e., 2.65)	Kalpana (26.55 gm)
	Chhotodidi (26.50 gm)
	Nagina22 (26.26 gm)
	Morogjhota (26.12 gm)
	Langalmathi (26.00 gm)
	Sonagori (25.95 gm)
	Maniksal (25.35 gm)
	DRR44 (25.28 gm)
	Kelesh (25.15 gm)
	Chandrakanti (24.71 gm)
	Sahabghaidhan (24.58 gm)