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Supplementary Table 1. Details of all 300 germplasm accessions, including their geographical origin and subgroups

Sl. No.	Genotypes	COUNTRY	GROUP	Sl. No.	Genotypes	COUNTRY	GROUP
1	IRIS_313-9732	MADAGASCAR	IND	24	IRIS_313-11152	INDIA	IND
2	IRIS_313-12188	LAOS	IND	25	IRIS_313-11954	CHINA	IND
3	IRIS_313-11992	LAOS	IND	26	IRIS_313-9566	INDIA	IND
4	IRIS_313-10756	INDIA	IND	27	IRIS_313-11991	LAOS	IND
5	IRIS_313-9547	INDIA	IND	28	IRIS_313-12161	CAMBODIA	IND
6	IRIS_313-11462	INDIA	IND	29	IRIS_313-10402	COLOMBIA	IND
7	IRIS_313-8450	INDIA	IND	30	IRIS_313-11867	CHINA	IND
8	IRIS_313-11666	CHINA	IND	31	IRIS_313-10366	PHILIPPINES	IND
9	IRIS_313-9484	INDIA	IND	32	IRIS_313-8412	CHINA	IND
10	IRIS_313-9882	TAIWAN	IND	33	IRIS_313-10032	MADAGASCAR	IND
11	IRIS_313-8957	INDIA	IND	34	IRIS_313-11640	INDIA	IND
12	IRIS_313-11725	JAPAN	IND	35	IRIS_313-11960	INDONESIA	IND
13	IRIS_313-10748	VIETNAM	IND	36	IRIS_313-11766	MADAGASCAR	IND
14	IRIS_313-11656	INDIA	IND	37	IRIS_313-10904	CAMBODIA	IND
15	IRIS_313-9926	CHAD	IND	38	IRIS_313-11537	PHILIPPINES	IND
16	IRIS_313-11639	INDIA	IND	39	IRIS_313-10189	CHINA	IND
17	IRIS_313-11723	INDIA	IND	40	IRIS_313-11579	CHINA	IND
18	IRIS_313-11983	BURKINA FASO	IND	41	IRIS_313-7689	NA	IND
19	IRIS_313-10572	NIGERIA	IND	42	IRIS_313-10857	INDIA	IND

20	IRIS_313-8614	INDIA	IND	43	IRIS_313-9287	INDIA	IND
21	IRIS_313-11980	TAIWAN	IND	44	IRIS_313-10412	INDONESIA	IND
22	IRIS_313-8844	INDIA	IND	45	IRIS_313-7720	NA	IND
23	IRIS_313-11224	BANGLADESH	IND	46	IRIS_313-11500	INDONESIA	IND
24	IRIS_313-11152	INDIA	IND	47	IRIS_313-10030	MADAGASCAR	IND
Sl. No.	Genotypes	COUNTRY	GROUP	Sl. No.	Genotypes	COUNTRY	GROUP
48	IRIS_313-12273	CHINA	IND	72	IRIS_313-11941	BURKINA FASO	IND
49	IRIS_313-7668	NA	IND	73	IRIS_313-7696	NA	IND
50	IRIS_313-10661	SRI LANKA	IND	74	IRIS_313-11326	BANGLADESH	IND
51	IRIS_313-10020	SRI LANKA	IND	75	IRIS_313-8316	MALAYSIA	IND
52	IRIS_313-8903	PHILIPPINES	IND	76	IRIS_313-10361	PHILIPPINES	IND
53	IRIS_313-15899	NA	IND	77	IRIS_313-9032	THAILAND	IND
54	IRIS_313-11858	CHINA	IND	78	IRIS_313-10480	INDONESIA	IND
55	IRIS_313-11887	PHILIPPINES	IND	79	IRIS_313-7654	NA	IND
56	IRIS_313-12015	NIGERIA	IND	80	IRIS_313-11108	LIBERIA	IND
57	IRIS_313-10397	COLOMBIA	IND	81	IRIS_313-11886	PHILIPPINES	IND
58	IRIS_313-7807	NA	IND	82	IRIS_313-11423	PHILIPPINES	IND
59	IRIS_313-11230	BANGLADESH	IND	83	IRIS_313-10001	TAIWAN	IND
60	IRIS_313-15902	PHILIPPINES	IND	84	IRIS_313-7685	NA	IND
61	IRIS_313-10510	PHILIPPINES	IND	85	IRIS_313-11756	MADAGASCAR	IND
62	IRIS_313-10307	NA	IND	86	IRIS_313-9623	BRAZIL	IND
63	IRIS_313-10560	CHINA	IND	87	IRIS_313-8732	THAILAND	IND
64	IRIS_313-11006	INDONESIA	IND	88	IRIS_313-11384	VIETNAM	IND
65	IRIS_313-9017	CHINA	IND	89	IRIS_313-10399	COLOMBIA	IND
66	IRIS_313-10238	PHILIPPINES	IND	90	IRIS_313-8744	INDONESIA	IND
67	IRIS_313-12269	MYANMAR	IND	91	IRIS_313-10394	PHILIPPINES	IND
68	IRIS_313-9325	BANGLADESH	IND	92	IRIS_313-9070	MALAYSIA	IND

69	IRIS_313-10782	INDONESIA	IND	93	IRIS_313-10113	MOZAMBIQUE	IND
70	IRIS_313-10054	PANAMA	IND	94	IRIS_313-8783	SRI LANKA	IND
71	IRIS_313-8621	INDIA	IND	95	IRIS_313-12080	PHILIPPINES	IND

Sl. No.	Genotypes	COUNTRY	GROUP	Sl. No.	Genotypes	COUNTRY	GROUP
96	IRIS_313-11893	VIETNAM	IND	120	IRIS_313-11646	INDIA	IND
97	IRIS_313-10517	PHILIPPINES	IND	121	IRIS_313-10279	DOMINICAN REPUBLIC	IND
98	IRIS_313-10285	PERU	IND	122	IRIS_313-15898	NA	IND
99	IRIS_313-7636	NA	IND	123	IRIS_313-11517	PHILIPPINES	IND
100	IRIS_313-7819	NA	IND	124	IRIS_313-12044	CAMBODIA	IND
101	IRIS_313-8514	GHANA	IND	125	IRIS_313-8932	BANGLADESH	IND
102	IRIS_313-10002	SRI LANKA	IND	126	IRIS_313-10263	MEXICO	IND
103	IRIS_313-11200	INDIA	IND	127	IRIS_313-11507	VIETNAM	IND
104	IRIS_313-11346	PHILIPPINES	IND	128	IRIS_313-11818	MYANMAR	IND
105	IRIS_313-11236	NA	IND	129	IRIS_313-9066	BANGLADESH	IND
106	IRIS_313-10325	SURINAME	IND	130	IRIS_313-11643	INDIA	IND
107	IRIS_313-10275	GUATEMALA	IND	131	IRIS_313-11990	TAIWAN	IND
108	IRIS_313-11840	THAILAND	IND	132	IRIS_313-8492	MALAYSIA	IND
109	IRIS_313-10294	PHILIPPINES	IND	133	IRIS_313-10287	PERU	IND
110	IRIS_313-10268	VENEZUELA	IND	134	IRIS_313-11750	CHINA	IND
111	IRIS_313-10774	INDONESIA	IND	135	IRIS_313-9966	COLOMBIA	IND
112	IRIS_313-9044	PHILIPPINES	IND	136	IRIS_313-10235	PHILIPPINES	IND
113	IRIS_313-9227	THAILAND	IND	137	IRIS_313-8003	NA	JAP
114	IRIS_313-12354	LAOS	IND	138	IRIS_313-10919	PHILIPPINES	JAP
115	IRIS_313-10417	INDIA	IND	139	IRIS_313-10920	PHILIPPINES	JAP

116	IRIS_313-12148	CAMBODIA	IND	140	IRIS_313-10936	INDONESIA	JAP
117	IRIS_313-12043	CAMBODIA	IND	141	IRIS_313-10080	JAPAN	JAP
118	IRIS_313-12101	CAMBODIA	IND	142	IRIS_313-8303	INDIA	JAP
119	IRIS_313-10525	INDONESIA	IND	143	IRIS_313-11616	INDIA	AUS

Sl. No.	Genotypes	COUNTRY	GROUP	Sl. No.	Genotypes	COUNTRY	GROUP
144	IRIS_313-11051	BANGLADESH	AUS	168	IRIS_313-11107	LIBERIA	TROP
145	IRIS_313-10594	BANGLADESH	AUS	169	IRIS_313-7664	NA	TROP
146	IRIS_313-11175	INDIA	AUS	170	IRIS_313-12244	PHILIPPINES	TROP
147	IRIS_313-11210	BANGLADESH	AUS	171	IRIS_313-11538	PHILIPPINES	TROP
148	IRIS_313-11027	PAKISTAN	AUS	172	IRIS_313-11103	LIBERIA	TROP
149	IRIS_313-11243	INDIA	AUS	173	IRIS_313-7911	NA	TROP
150	IRIS_313-10896	INDIA	AUS	174	IRIS_313-9800	JAPAN	TROP
151	IRIS_313-11541	MYANMAR	ADM	175	IRIS_313-8439	MALAYSIA	TROP
152	IRIS_313-7797	NA	ADM	176	IRIS_313-10991	PHILIPPINES	TROP
153	IRIS_313-8268	NEPAL	ADM	177	IRIS_313-8209	NA	TEMP
154	IRIS_313-11295	INDIA	ADM	178	IRIS_313-11828	INDIA	TEMP
155	IRIS_313-11713	NIGERIA	ADM	179	IRIS_313-10327	PERU	TEMP
156	IRIS_313-11930	NIGERIA	IND	180	IRIS_313-10242	HUNGARY	TEMP
157	IRIS_313-12118	MADAGASCAR	IND	181	IRIS_313-10359	PHILIPPINES	TEMP
158	IRIS_313-12083	MADAGASCAR	IND	182	IRIS_313-11428	BRAZIL	TEMP
159	IRIS_313-11767	MADAGASCAR	IND	183	IRIS_313-11437	MEXICO	TEMP
160	IRIS_313-8814	BHUTAN	ARO	184	IRIS_313-10295	NA	IND
161	IRIS_313-11026	PAKISTAN	ARO	185	IRIS_313-11380	PHILIPPINES	ADM
162	IRIS_313-8010	NA	TROP	186	IRIS_313-8727	INDIA	IND
163	IRIS_313-10946	INDONESIA	TROP	187	IRIS_313-10497	CHINA	IND

164	IRIS_313-11426	BRAZIL	TROP	188	IRIS_313-10894	INDIA	AUS
165	IRIS_313-7909	NA	TROP	189	IRIS_313-11996	PHILIPPINES	IND
166	IRIS_313-11493	INDIA	TROP	190	IRIS_313-10738	INDONESIA	ADM
167	IRIS_313-9464	SURINAME	TROP	191	IRIS_313-10515	TAIWAN	IND

Sl. No.	Genotypes	COUNTRY	GROUP	Sl. No.	Genotypes	COUNTRY	GROUP
192	IRIS_313-11051	BANGLADESH	AUS	216	IRIS_313-9484	INDIA	IND
193	IRIS_313-10594	BANGLADESH	AUS	217	IRIS_313-9882	TAIWAN	IND
194	IRIS_313-11175	INDIA	AUS	218	IRIS_313-8957	INDIA	IND
195	IRIS_313-11210	BANGLADESH	AUS	219	IRIS_313-11725	JAPAN	IND
196	IRIS_313-11027	PAKISTAN	AUS	220	IRIS_313-10748	VIETNAM	IND
197	IRIS_313-11243	INDIA	AUS	221	IRIS_313-11656	INDIA	IND
198	IRIS_313-10896	INDIA	AUS	222	IRIS_313-9926	CHAD	IND
199	IRIS_313-11541	MYANMAR	ADM	223	IRIS_313-11639	INDIA	IND
200	IRIS_313-7797	NA	ADM	224	IRIS_313-11723	INDIA	IND
201	IRIS_313-11867	CHINA	IND	225	IRIS_313-11983	BURKINA FASO	IND
202	IRIS_313-10366	PHILIPPINES	IND	226	IRIS_313-10572	NIGERIA	IND
203	IRIS_313-8412	CHINA	IND	227	IRIS_313-8614	INDIA	IND
204	IRIS_313-10032	MADAGASCAR	IND	228	IRIS_313-11980	TAIWAN	IND
205	IRIS_313-11640	INDIA	IND	229	IRIS_313-8844	INDIA	IND
206	IRIS_313-11960	INDONESIA	IND	230	IRIS_313-11224	BANGLADESH	IND
207	IRIS_313-11766	MADAGASCAR	IND	231	IRIS_313-11152	INDIA	IND
208	IRIS_313-10904	CAMBODIA	IND	232	IRIS_313-11108	LIBERIA	IND
209	IRIS_313-11537	PHILIPPINES	IND	233	IRIS_313-11886	PHILIPPINES	IND
210	IRIS_313-10189	CHINA	IND	234	IRIS_313-11423	PHILIPPINES	IND
211	IRIS_313-11579	CHINA	IND	235	IRIS_313-10001	TAIWAN	IND

212	IRIS_313-7689	NA	IND	236	IRIS_313-7685	NA	IND
213	IRIS_313-10857	INDIA	IND	237	IRIS_313-11756	MADAGASCAR	IND
214	IRIS_313-9287	INDIA	IND	238	IRIS_313-9623	BRAZIL	IND
215	IRIS_313-10412	INDONESIA	IND	239	IRIS_313-8732	THAILAND	IND

Sl. No.	Genotypes	COUNTRY	GROUP	Sl. No.	Genotypes	COUNTRY	GROUP
240	IRIS_313-15898	NA	IND	264	IRIS_313-10991	PHILIPPINES	TROP
241	IRIS_313-11517	PHILIPPINES	IND	265	IRIS_313-8209	NA	TEMP
242	IRIS_313-12044	CAMBODIA	IND	266	IRIS_313-11828	INDIA	TEMP
243	IRIS_313-8932	BANGLADESH	IND	267	IRIS_313-10327	PERU	TEMP
244	IRIS_313-10263	MEXICO	IND	268	IRIS_313-10242	HUNGARY	TEMP
245	IRIS_313-11507	VIETNAM	IND	269	IRIS_313-10359	PHILIPPINES	TEMP
246	IRIS_313-11818	MYANMAR	IND	270	IRIS_313-11428	BRAZIL	TEMP
247	IRIS_313-9066	BANGLADESH	IND	271	IRIS_313-11437	MEXICO	TEMP
248	IRIS_313-11643	INDIA	IND	272	IRIS_313-10295	NA	IND
249	IRIS_313-11990	TAIWAN	IND	273	IRIS_313-11380	PHILIPPINES	ADM
250	IRIS_313-8492	MALAYSIA	IND	274	IRIS_313-8727	INDIA	IND
251	IRIS_313-10287	PERU	IND	275	IRIS_313-10497	CHINA	IND
252	IRIS_313-11750	CHINA	IND	276	IRIS_313-10894	INDIA	AUS
253	IRIS_313-9966	COLOMBIA	IND	277	IRIS_313-11996	PHILIPPINES	IND
254	IRIS_313-10235	PHILIPPINES	IND	278	IRIS_313-10991	PHILIPPINES	TROP
255	IRIS_313-8003	NA	JAP	279	IRIS_313-11236	NA	IND
256	IRIS_313-15898	NA	IND	280	IRIS_313-10325	SURINAME	IND
257	IRIS_313-11243	INDIA	AUS	281	IRIS_313-10275	GUATEMALA	IND
258	IRIS_313-10896	INDIA	AUS	282	IRIS_313-11840	THAILAND	IND
259	IRIS_313-11541	MYANMAR	ADM	283	IRIS_313-10294	PHILIPPINES	IND

260	IRIS_313-7797	NA	ADM	284	IRIS_313-10268	VENEZUELA	IND
261	IRIS_313-8268	NEPAL	ADM	285	IRIS_313-10774	INDONESIA	IND
262	IRIS_313-11295	INDIA	ADM	286	IRIS_313-9044	PHILIPPINES	IND
263	IRIS_313-11243	INDIA	AUS	287	IRIS_313-11236	NA	IND

Sl. No.	Genotypes	COUNTRY	GROUP
288	IRIS_313-11422	CHINA	IND
289	IRIS_313-11059	BANGLADESH	AUS
292	IRIS_313-8068	NA	TEMP
291	IRIS_313-12220	LAOS	IND
292	IRIS_313-10960	INDONESIA	TROP
293	IRIS_313-7824	NA	IND
294	IRIS_313-11763	CAMEROON	IND
295	IRIS_313-15901	NA	IND
296	IRIS_313-11010	INDONESIA	IND
297	IRIS_313-11541	MYANMAR	ADM
298	IRIS_313-7797	NA	ADM
299	IRIS_313-8268	NEPAL	ADM
300	IRIS_313-11295	INDIA	ADM

Supplementary Table 2. Monthly mean meteorological data during cropping period (*Kharif* 2023) at the Zonal Agricultural Research Station, V.C. Farm, Mandya

Sl. No	Month	Temperature (°C)		Relative humidity (%)	No. of rainy days	Rainfall (mm)
		Min.	Max.			
1.	July	20.3	27.1	87.4	5	40.0
2.	August	20.4	26.4	87.6	2	45.7
3.	September	20.2	27.3	80.1	6	65.6
4.	October	19.0	27.9	79.8	4	89.5
5.	November	18.1	29.7	68.9	5	56.6
	Total				22	297.4

Supplementary Table 3. Monthly mean meteorological data during cropping period (Kharif 2023) at the Agricultural Research Station, Gangavathi

Sl. No	Month	Temperature (°C)		Relative humidity (%)	No. of rainy days	Rainfall (mm)
		Min.	Max.			
1.	July	22.3	27.1	86.4	6	42.5
2.	August	24.4	28.4	86.6	3	46.7
3.	September	25.2	29.3	84.1	5	68.6
4.	October	22.0	29.9	81.8	4	86.5
5.	November	21.1	26.7	75.9	3	65.6
	Total				21	309.9