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**Figure S1. Box-plots depicting the variation of the data from the nine phosphorus stress tolerance indices of introgression lines evaluated for two growing seasons.** The vertical lines represent the variation in the population. Dots represent the outliers (Note: Y**S** = Yield under low soil P condition, **YP** = Yield under normal condition, **STI** = Stress Tolerance Index, **TOL** = Tolerance Index, **SSI** = Stress Susceptibility Index, **YSI** = Yield Stability Index, **YR** = Yield Reduction Ratio, **YI** = Yield Index, **PYR** = Per cent Yield Reduction)



**Figure S2. Biplot drawn based on the first and second components obtained from principal component analysis using the grain yield under non-stress (Yp) and stress (Ys) conditions, and low P tolerance indices in introgression lines of *O. rufipogon* during during wet season 2019**

Note: YS = Yield under low soil P condition, YP = Yield under normal, STI = Stress Tolerance Index, TOL = Tolerance Index, SSI = Stress Susceptibility Index, YSI = Yield Stability Index, YR = Yield Reduction Ratio, YI = Yield Index, PYR = Per cent Yield Reduction)



**Figure S3. Biplot drawn based on the first and second components obtained from principal component analysis using the grain yield under non-stress (Yp) and stress (Ys) conditions, and low P tolerance indices in introgression lines of *O. rufipogon* during during dry season 2019.**

(Note: YS = Yield under low soil P condition, YP = Yield under normal condition, STI = Stress Tolerance Index, TOL = Tolerance Index, SSI = Stress Susceptibility Index, YSI = Yield Stability Index, YR = Yield Reduction Ratio, YI = Yield Index, PYR = Per cent Yield Reduction)