

Table 2 Major diatoms species and their responses to various nutrient fluctuations in mangrove dominated and impoverished waters of Hooghly estuary, through the correlation with the nutrients contents and relative abundances

Parameters	Mangrove impoverished	Mangrove dominated	Mangrove impoverished	Mangrove dominated	Mangrove impoverished	Mangrove dominated
Species↓	NO ₃ -N	NO ₃ -N	PO ₃ -P	PO ₃ -P	SiO ₄	SiO ₄
<i>Coscinodiscus hyalinus</i>	-0.9681	+0.5115	-0.5504	0.9188	-0.6737	-0.6408
<i>Coscinodiscus marginatus</i>	-0.9999	+0.8266	+0.7419	0.4505	+0.4672	+0.8057
<i>Coscinodiscus radiatus</i>	-0.6132	-0.9969	+0.0745	0.2079	-0.9849	-0.2571
<i>Ditylum brightwellii</i>	-0.3852	-0.2538	-0.9045	0.9257	+0.6358	-0.9966
<i>Lioloma elongate</i>	+0.9866	+0.3019	+0.6230	0.9056	+0.6048	+0.9995
<i>Synedra crystallinum</i>	-0.0715	+0.3766	-0.7218	0.8691	+0.8483	+0.9988
<i>Skeletonema costatum</i>	+0.8834	+0.0564	+0.3413	0.9824	+0.8270	+0.9605
<i>Thalassionema frauenfeldtii</i>	-0.2853	+0.9534	+0.4308	0.4259	-0.9806	+0.0321
<i>Thalassionema nitzschioides</i>	-0.0864	+0.6801	+0.6037	0.8157	-0.9211	-0.4657