LIST OF PLATES & FIGURES

Plate No.	Title	Page No.
Plate 1.1.	Penaeus monodon	5
Plate 2.1.	Digha Mohana landing center.	20
Plate 2.2.	Shankarpur fishing harbour	20
Plate 3.1.	Weight measurement of <i>P. monodon</i>	35
Plate 3.2.	Separating of <i>P. monodon</i> from other species	35
Plate 5.1.	Male P. monodon	94
Plate 5.2.	Female P. monodon	94
Plate 5.3.	Full length gonad of <i>P. monodon</i>	95
Figure 1.1	Geographical location of Digha	4
Figure 1.2.	Lateral view of morphological features of <i>P. monodon</i>	7
Figure 2.1	Species composition of penaeid prawn landings from Digha coast during January 2011 to December 2013	27
Figure 3.1.	Carapace length – weight relationship of female <i>P.monodon</i> collected from Digha coast during January 2011 to December 2013.	36
Figure 3.2.	Carapace length – weight relationship of male <i>P. monodon</i> collected from Digha coast during January 2011 to December 2013.	37
Figure 3.3.	Carapace length - total length relationship of female <i>P. monodon</i> collected from Digha coast during January 2011 to December 2013.	38
Figure 3.4.	Carapace length - total length relationship of male <i>P. monodon</i> collected from Digha coast during January 2011 to December 2013.	39
Figure 3.5.	Total length - weight relationship of female <i>P. monodon</i> collected from Digha coast during January 2011 to December 2013.	40
Figure 3.6.	Total length - weight relationship of male of <i>P. monodon</i> collected from Digha coast during January 2011 to December 2013.	41
Figure 3.7.	Average condition factor of <i>P. monodon</i> collected from Digha coast during January 2011 to December 2013.	42

Plate No.	Title	Page No.
Figure 4.1.	Restructured length-frequency distribution and the estimated growth curve of females' <i>P. monodon</i> collected during January2011 to December 2013 from Digha coast.	74
Figure 4.2.	Restructured length-frequency distribution and the estimated growth curve of males <i>P. monodon</i> collected during January2011 to December 2013 from Digha coast.	74
Figure 4.3.	Length converted catch curve of males <i>P. monodon</i> collected during January2011 to December 2013 from Digha coast.	75
Figure 4.4.	Length converted catch curve of females <i>P .monodon</i> collected during January 2011 to December 2013 from Digha coast.	75
Figure 4.5.	Length structured virtual population analysis of males <i>P .monodon</i> collected during January2011 to December 2013 from Digha coast.	76
Figure 4.6.	Length structured virtual population analysis of females <i>P. monodon</i> collected during January 2011 to December 2013 from Digha coast.	76
Figure 4.7.	Recruitment patterns of males' <i>P.monodon</i> collected during January2011 to December 2013 from Digha coast.	77
Figure 4.8.	Recruitment patterns of females of <i>P. monodon</i> collected during January 2011 to December 2013 from Digha coast.	77
Figure 4.9.	Probability of capture of females' <i>P. monodon</i> collected during January 2011 to December 2013 from Digha coast.	78
Figure 4.10.	Probability of capture of females' <i>P. monodon</i> collected during January 2011 to December 2013 from Digha coast.	78
Figure 4.11.	Yield and biomass curves of males' <i>P. monodon</i> collected during January2011 to December 2013 from Digha coast.	79

Plate No.	Title	Page No.
Figure 4.12.	Relative yield to present yield of males <i>P. monodon</i> collected during January2011 to December 2013 from Digha coast.	80
Figure 4.13.	Yield per recruit and biomass per recruit of males <i>P. monodon</i> collected during January2011 to December 2013 from Digha coast.	81
Figure 4.14.	Yield and biomass curves of females' <i>P. monodon</i> collected during January 2011 to December 2013 from Digha coast.	82
Figure 4.15.	Relative yield to present yield of females' <i>P. monodon</i> collected during January 2011 to December 2013 from Digha coast.	83
Figure 4.16.	Yield per recruit and biomass per recruit of females <i>P.monodon</i> collected during January2011 to December 2013 from Digha coast.	84
Figure 5.1.	Average maturity percentage of female <i>P. monodon</i> collected from Digha coast during January 2011to December 2013.	99
Figure 5.2	Average gonadosomatic index (GSI) of female <i>P. monodon</i> collected from Digha coast during January 2011to December 2013.	100
Figure 5.3.	Length at first maturity (LM ₅₀) of female <i>P. monodon</i> collected from Digha coast during January 2011to December 2013.	101
Figure 5.4.	Weight - fecundity relationship of females of <i>P. monodon</i> collected from Digha coast during January 2011to December 2013.	102
Figure 5.5.	Total length - fecundity relationship of females of <i>P</i> monodon collected from Digha coast during January 2011to December 2013.	103
Figure 5.6.	Carapace length - fecundity relationship of females of <i>P monodon</i> collected from Digha coast during January 2011 to December 2013.	104