

Name of work: *Replacement/repair of damaged Fender/fender accessories at Ernakulam Wharf, Mattancherry Wharf and BTP Berths at Cochin Port Authority*

Item No	Sub-heads and items of work	Quantity/ No	Unit	Rate (Rs.)
A	ERNAKULAM WHARF			
1	Dismantling and removing existing damaged 1250 H Cell type rubber fender with frontal frame etc without damaging structure and stacking.	2	Each	
2	Supplying and fixing 1250H Cell type rubber fender with whole fixtures like bolts, nuts, washers, anchor bolts etc and accessories like frontal frame (1750 x 2500 mm), tension and weight chains, complete in place of fender dismantled	2	Each	
3	Cleaning, primering and painting with epoxy paint to the 1250 H cell fender's frontal frame (1750 x 2000 mm approximate size), chains and U clamps etc	1	Each	
4	Taking out the 1250 H cell fender's frontal frame (1500 x 1750 mm approximate size), chains and U clamps etc and stacking.	3	Each	
5	Supplying and fixing new 1250 H cell fender's frontal frame (1750 x 2500 mm approximate size), chains and U clamps etc	3	Each	
6	Connecting the detached chains with new U hook 30 mm dia MS galvanized GR 8.8 using D shackles and painting with epoxy paint to the chains and hooks after cleaning & primering	1	Each	
7	Supplying and fixing new chain 24 mm dia hot dipped galvanized to the frontal frame (1750 x 2500 mm size) of the 1250H cell fender, with U Hooks and painting the existing chains, U hook etc	1	Each	
8	Repairing the broken chains by replacing the open links and D shackles of hot dipped galvanized for the 1250H cell fender	2	Each	

B	MATTANCHERRY WHARF			
1	Dismantling and removing existing damaged 800 H fender with frontal frame etc without damaging structure and stacking.	2	Each	
2	Supplying and fixing 800 H cell type rubber fender with whole fixtures like bolts, nuts, washers, anchor bolts etc and accessories like frontal frame (1300 x 2300 mm), tension and weight chains, complete in place of fender dismantled	2	Each	
3	Taking out the frontal frame and supply and fixing 30 mm thick UHMWPE rubbing piece (pad) over the existing Frontal Frame 1250 x 1250 mm of the 800 H cell fender with SS bolts and washers etc. and refitting the frontal frame including cleaning and epoxy painting.	1	Each	
4	Taking out the existing damaged chains and providing new GI chains 25 mm dia with rubber flex and U hook etc. including painting with epoxy paint after priming.	1	Each	
5	Cleaning, priming and painting with epoxy paint to the 1150 H fender's frontal frame (1750 x 2000 mm approximate size), chains and U clamps etc and changing 2 D schackels	2	Each	
6	Repairing the existing detached chain of the 1150 H frontal frame (1750 x 3000 mm size), by providing D shackle/ U Hooks etc.(One No Chain only) and changing D shackle of ather chain including painting with epoxy paint after priming.	3	Each	
7	Dismantling the existing chains and Supplying and fixing two nos new chains 24 mm dia hot dipped galvanized for the 1150 H frontal frame (1750 x 2000 mm approximate size), with U Hooks & painting with epoxy paint after cleaning and priming.	5	Each	

C	BTP			
1	Dismantling and removing existing damaged 1150 H Cell fender with frontal frame etc without damaging structure and stacking at M.Wharf.	2	Each	
2	Supply and fixing HCF 1150H cell type rubber fender with whole fixtures like bolts, nuts, washers, anchor bolts etc and accessories like frontal frame (1750 x 3000 mm), tension and weight chains, complete in place of fender dismantled	2	Each	
3	Taking out the frontal frame and supply and fixing 40 mm thick UHMWPE rubbing piece (pad) over the the existing 1150 H Fender (Frontal Frame Appx. Size 1500 x 2000 mm) with SS bolts and washers etc. and refitting the frontal frame.	2	Each	
4	Painting frontal frame with epoxy paint, chains, U Hook etc after cleaning and painting (2 Nos chains)	1	Each	
5	Connecting the detached chains with new U hook 30 mm dia MS galvanized GR 8.8 using D shakles and painting with epoxy paint to the chains and hooks after cleaning & primering	1	Each	