

DEENDAYAL PORT TRUST
HARBOUR DIVISION
BILL OF QUANTITY

Name of Work: Repairs and Maintenance of Pontoons and Walkways of SNA Jetty and Flotila Jetty

	Description of Item	Quantity	Rate		Unit		Amount
			In fig.	In words	In fig.	In words	
PART A: CIVIL ITEMS							
1	Detaching the steel fabricated pontoon in parts or fully in fabricated /assembled condition as deemed suitable with cranes, winches or by any other method including removing from its position from existing bearings, guide channels, rollers, hinges and other fittings etc., with the new / existing RCC jetty and pontoons suitable for accomodating the same in smooth upper and lower movement in different tidal conditions etc., complete as directed by Engineer - In - Charge. The pontoon should be parked in safe position in high tide & low tide in such a way that the repairing and fabrication work can be done smoothly as directed by technical advisor or as directed by engineer in charge	4.00			1 No.	Each	
2	Floating and fixing in original position the steel fabricated pontoon in parts or fully in fabricated / assembled condition as deemed suitable with cranes, winches or by any other method including fixing anchoring in position and providing with necessary bearings, rollers, hinges and other fittings etc., with the new / existing RCC jetty end supports and pontoons suitable for accomodating the same in smooth upper and lower movement in different tidal conditions etc., complete as directed by Engineer - In - Charge. The work also comprises of oiling & greasing of all the movable parts of pontoon and walkway such as walkway rollers, hinges, plates and guide piles, guide plates, guide channels etc. including cleaning of walkway area and pontoon area & balancing the pontoon with filling of sweet water in compartments as per requirement.	4.00			1 No.	Each	
3	Fabricating including supplying and erectiing steel structure for Walkway, Pontoon and any other structure including, hoisting, fixing bolted and cutting to required length and shape, drilling holes, jointing in an approved manner etc. including cutting the old structure Complete as directed.	127836.00			1 Kg	Kilogram	
4	Providing & fixing 33mm dia. 8.8 grade Anchor fastener of 300mm length with drilling holes in concrete with all labour & materials as directed by Engineer in Charge.At Support of Walkway (8 x 8)	32			1 No.	Each	

	Description of Item	Quantity	Rate		Unit		Amount
			In fig.	In words	In fig.	In words	
5	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	15.00			1M3	One cubic metre	
6	Carrying out sand blasting with sand of suitable grade & quantity with air compressor at suitable pressure including cleaning the surface till removal of all scales, rust and other foreign materials including cost of all labour material complete as directed by Engineer in charge.	3600.00			1M2	One square metre	
7	Applying one coat of Epoxy primer over new/ old steel and other metal surface over 10 cm in width or girth after and including preparing the surface by thoroughly cleaning oil, grease, dust and other foreign matter and scoured with wire brushes, fine steel wool, scraper and sand paper complete as directed by Engineer in charge	3600.00			1M2	One square metre	
8	Painting two coats (excluding priming coat) on new/old steel metaled surfaces with epoxy paint. Brushing exterior typr I to give an even shade including cleaning the surface of all dirt / dust & other foreign matter on surface over 10cm in width /girth.	3600.00			1M2	One square metre	
9	Providing & Fixing hollow cylindrical dock rubber fenders size 300mm O.D. x 150mm I.D. and 2.00m long including fixing with structural steel by M.S. chain of 20mm dia. M.S. hooks, "D" shackles etc. including fixing arrangements with pontoon etc. as per the requirement of site of work with all labour aqnd tools and tackles as directed by Engineer - in - charge.	116.00			1 No.	Each	
10	Providing & Fixing M.S. Pipe bollards of 300mm dia. of required capacity as directed including cost of all pipes, base plates, anchors, bolts of appropriate length nuts, bolts, washers and grouting of bollards in R.C.C. work with M - 30 grade concrete including grouting with C.C. M - 30 grade under base plate and filling of cavity with concrete and necessary painting to exposed surface of bollards etc. complete as per drawing and as directed by Engineer - in - charge.	16.00			1 No.	Each	

	Description of Item	Quantity	Rate		Unit		Amount
			In fig.	In words	In fig.	In words	
11	Providing and fixing wooden fenders made from secondary hard wood as approved by Engineer in charge including cutting wood in required size and length, removing old wooden fender from site, fixing the new wooden fender in position including drilling holes in RCC surface, providing 20 to 25 mm dia anchor bolt for fixing wooden fender complete with all labour and material as directed by Engineer in charge.	24.30			1M3	One cubic metre	
12	Providing 10 mm to 20mm thick flooring with free flow, high strength, non shrink cementitious precision grout over existing RCC/CC surface including preparation/cleaning of existing surface, applying the grout as per manufacturer recommendations etc complete with all material and labour as directed by Engineer in charge.	400.00			1M2	One square metre	
PART B: CREDIT ITEMS							
1	Taking away the dismantled scrap material of various steel structural parts and fixtures of pontoon, walkways etc. on "As and Where is" basis including cost of all labours, tools & tackles and machineries requis for loading ,unloading, transportation and making the suitable for weighment purpose etc. complete as directed by engineer-in charge.						
	From Pontoons (70 % of total quantity)	89485.20			1 Kg	One Kilogram	

Contractor

Executive Engineer (H)
Deendayal Port Authority