

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		<u>SECTION NO. 3</u>				
	SANS 1200A/AB/Pricing Assumpt:	<u>COASTAL STRUCTURES</u>				
		<u>SLOPE STABILISATION AT MOLE (Chainage 0+560 to 0+665)</u>				
	C3.1	<u>Site Clearance</u>				
1	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	2,050		
	C3.5	<u>Excavation</u>				
2	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,300		
	C3.2	<u>Supply and construction of revetment</u>				
3	C3.2.1	Supply and construct Armour 1 slope with rock of grading 900mm	t	9,050		
4	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	2,827		
	C3.3	<u>Supply and construction of toe</u>				
5	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	5158.4		
	C3.3	<u>Blinding Layer / Void filler</u>				
6	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm	t	1,600		
	C3.4	<u>Geotextile</u>				
7	C3.4.1	Supply and Install Grade A10 Bidum	m ²	3,535		
		<u>SLOPE STABILISATION BETWEEN BERTH 1-2 (Chainage 0+740 to 0+821)</u>				
	C3.1	<u>Site Clearance</u>				
8	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	3,900		
	C3.5	<u>Excavation</u>				
9	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,300		
	C3.2	<u>Supply and construction of revetment</u>				
10	C3.2.1	Supply and construct Armour 2 slope with rock of grading 800mm	t	3,040		
11	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	2,400		
12	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	0		
Carried Forward:						

		Brought Forward:				
	C3.3	<u>Supply and construction of toe</u>				
13	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	1760		
	C3.4	<u>Blinding Layer / Void filler</u>				
14	C3.4.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm	t	5,280		
	C3.4	<u>Geotextile</u>				
15	C3.4.1	Supply and Install Grade A10 Bidum	m ²	2,400		
		<u>SLOPE STABILISATION AT BERTH 1 (Chainage 0+665 to 0+740)</u>				
	C3.1	<u>Site Clearance</u>				
16	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	1,200		
	C3.5	<u>Excavation</u>				
17	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,300		
	C3.2	<u>Supply and construction of revetment</u>				
18	C3.2.1	Supply and construct Armour 2 slope with rock of grading 800mm	t	2,880		
19	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	1,120		
	C3.3	<u>Supply and construction of toe</u>				
20	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	1628.8		
	C3.3	<u>Blinding Layer</u>				
21	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	640		
	C3.4	<u>Geotextile</u>				
22	C3.4.1	Supply and Install Grade A10 Bidum	m ²	1,400		
		<u>SLOPE STABILISATION BETWEEN BERTH 2-3 (Chainage 0+903 to 1+074)</u>				
	C3.1	<u>Site Clearance</u>				
23	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	5,100		
	C3.5	<u>Excavation</u>				
24	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	1,300		
	C3.2	<u>Supply and construction of revetment</u>				
25	C3.2.1	Supply and construct Armour 2 slope with rock of grading 800mm	t	5,440		
		Carried Forward:				

Brought Forward:							
26	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	6,240			
27	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	4,640			
	C3.2.2	Supply and construct Filter rock type 2 slope with rock of grading 120mm aggregate	t	1440			
28	C3.2.3	Take from stockpile and place filter rock	t	2080			
	C3.3	<u>Supply and construction of toe</u>					
29	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	1867.2			
	C3.3	<u>Blinding Layer /Voider Filler</u>					
30	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	5,280			
	C3.4	<u>Geotextile</u>					
31	C3.4.1	Supply and Install Grade A10 Bidum	m ²	5,900			
	C3.6	<u>Tie-in to existing infrastructure</u>					
32	C3.6.1	Stormwater outlets	No.	2			
		<u>SLOPE STABILISATION AT BERTH 3 (Chainage 1+074 to 1+170)</u>					
	C3.1	<u>Site Clearance</u>					
33	C3.1.1	Clear the site and remove debris to an approved	m ²	2,200			
	C3.5	<u>Excavation</u>					
34	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	2,200			
	C3.2	<u>Supply and construction of revetment</u>					
35	C3.2.1	Supply and construct Armour 2 slope with rock of grading 800mm	t	4,000			
36	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	1,600			
37	C3.2.3	Take from stockpile and place filter rock	t	3,520			
	C3.3	<u>Blinding Layer</u>					
38	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	960			
	C3.4	<u>Geotextile</u>					
39	C3.4.1	Supply and Install Grade A10 Bidum	m ²	2,100			
	C3.6	<u>Tie-in to existing infrastructure</u>					
40	C3.6.1	Stormwater outlets	No.	1			
Carried Forward:							

		Brought Forward:			
		<u>SLOPE STABILISATION AT BERTH 3-4 (Chainage 1+170 to 1+260)</u>			
	C3.1	<u>Site Clearance</u>			
41	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	3,000	
	C3.5	<u>Excavation</u>			
42	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,300	
	C3.2	<u>Supply and construction of revetment</u>			
43	C3.2.1	Supply and construct Armour 2 slope with rock of grading 800mm	t	2,720	
44	C3.2.1	Supply and construct Armour 3 slope with rock of	t	3,040	
45	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	2,400	
46	C3.2.3	Take from stockpile and place filter rock	t	6,880	
	C3.3	<u>Blinding Layer</u>			
47	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	2,880	
	C3.4	<u>Geotextile</u>			
48	C3.4.1	Supply and Install Grade A10 Bidum	m ²	3,100	
		<u>SLOPE STABILISATION BETWEEN BERTH 6-7 (Chainage 1+948 to 1+990)</u>			
	C3.1	<u>Site Clearance</u>			
49	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	900	
	C3.5	<u>Excavation</u>			
50	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,300	
	C3.2	<u>Supply and construction of revetment</u>			
51	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	1,920	
52	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	960	
53	C3.2.2	Supply and construct Filter rock type 2 slope with rock of grading 120mm aggregate	t	480	
	C3.3	<u>Supply and construction of toe</u>			
54	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	912	
	C3.3	<u>Blinding Layer</u>			
55	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	8,160	
		Carried Forward:			

		Brought Forward:				
	C3.4	<u>Geotextile</u>				
56	C3.4.1	Supply and Install Grade A10 Bidum	m ²	1,100		
	C3.6	<u>Tie-in to existing infrastructure</u>				
57	C3.6.1	Stormwater outlets	No.	2		
		<u>SLOPE STABILISATION AT BERTH 7 (Chainage 1+990 to 2+058)</u>				
	C3.1	<u>Site Clearance</u>				
58	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	1,200		
	C3.5	<u>Excavation</u>				
59	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	1,000		
	C3.2	<u>Supply and construction of revetment</u>				
60	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	1,760		
61	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	960		
	C3.3	<u>Supply and construction of toe</u>				
62	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	1476.8		
	C3.3	<u>Blinding Layer</u>				
63	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	800		
	C3.4	<u>Geotextile</u>				
64	C3.4.1	Supply and Install Grade A10 Bidum	m ²	1,300		
	C3.6	<u>Tie-in to existing infrastructure</u>				
65	C3.6.1	Stormwater outlets	No.	2		
		<u>SLOPE STABILISATION BETWEEN BERTH 7- 8 (2+058 to 2+233)</u>				
	C3.1	<u>Site Clearance</u>				
66	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	5,600		
	C3.5	<u>Excavation</u>				
67	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,300		
	C3.2	<u>Supply and construction of revetment</u>				
67	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	9,760		
68	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	4,480		
		Carried Forward:				

Brought Forward:						
69	C3.2.2	Supply and construct Filter rock type 2 slope with rock of grading 120mm	t	2560		
	C3.3	<u>Supply and construction of toe</u>				
70	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	3976		
	C3.3	<u>Blinding Layer</u>				
71	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm	t	7,520		
	C3.6	<u>Tie-in to existing infrastructure</u>				
72	C3.6.1	Stormwater outlets	No.	5		
	C3.4	<u>Geotextile</u>				
73	C3.4.1	Supply and Install Grade A10 Bidum	m ²	5,600		
		<u>SLOPE STABILISATION AT BERTH 8 (Chainage 2+233 to 2+324)</u>				
	C3.1	<u>Site Clearance</u>				
74	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	2,100		
	C3.5	<u>Excavation</u>				
75	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	1,300		
	C3.2	<u>Supply and construction of revetment</u>				
76	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	3,040		
77	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	1,760		
	C3.3	<u>Supply and construction of toe</u>				
78	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	1,976		
	C3.3	<u>Blinding Layer</u>				
79	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	1,440		
	C3.4	<u>Geotextile</u>				
80	C3.4.1	Supply and Install Grade A10 Bidum	m ²	2,200		
	C3.6	<u>Tie-in to existing infrastructure</u>				
81	C3.6.1	Stormwater outlets	No.	2		
		<u>SLOPE STABILISATION BETWEEN BERTH 8- BUNKER (Chainage 2+324 to 2+ 487) 8 - BUNKER (Chainage 2+324 to 2+487)</u>				
	C3.1	<u>Site Clearance</u>				
CARRIED FORWARD:						

BROUGHT FORWARD:						
82	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	6,000		
	C3.5	<u>Excavation</u>				
83	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	5,300		
	C3.2	<u>Supply and construction of revetment</u>				
84	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	10,400		
85	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	4,480		
86	C3.2.2	Supply and construct Filter rock type 2 slope with rock of grading 120mm aggregate	t	2720		
	C3.3	<u>Supply and construction of toe</u>				
87	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	3432		
	C3.3	<u>Blinding Layer</u>				
88	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	5,440		
	C3.4	<u>Geotextile</u>				
89	C3.4.1	Supply and Install Grade A10 Bidum	m ²	5,800		
	C3.6	<u>Tie-in to existing infrastructure</u>				
90	C3.6.1	Stormwater outlets	No.	3		
		<u>SLOPE STABILISATION AT BUNKER (Chainage 2+487 to 2+645)</u>				
	C3.1	<u>Site Clearance</u>				
91	C3.1.1	Clear the site and remove debris to an approved on-land dumpsite	m ²	3,600		
92	C3.5.1	Excavate and Stockpile existing material to be reused in revetment construction	m ³	4,200		
	C3.2	<u>Supply and construction of revetment</u>				
93	C3.2.1	Supply and construct Armour 3 slope with rock of grading 600mm	t	3,840		
94	C3.2.2	Supply and construct Filter rock type 1 slope with rock of grading 300mm	t	1,760		
	C3.3	<u>Supply and construction of toe</u>				
95	C3.3.1	Supply and construct Armour 2 toe with rock of grading 800mm	t	3432		
	C3.3	<u>Blinding Layer</u>				
96	C3.3.1	Supply and construct Blinding Layer with Filter rock type 3 of grading 53mm aggregate	t	1,600		
CARRIED FORWARD:						

		BROUGHT FORWARD:				
	C3.4	<u>Geotextile</u>				
97	C3.4.1	Supply and Install Grade A10 Bidum	m ²	2,200		
	C3.6	<u>Tie-in to existing infrastructure (details as per the typical sections on the drawings)</u>				
98	C3.6.1	Stormwater outlets	No.	7		
Carried to summary:						