TS Register No: 266/2019-2020 AS Register No:289/2019-2020 Construction of Groyne Fields Between CESCP 645 and 672 (Ch 77.34 km to Ch. 82.74 km) at Ambalapuzha South, North Panchayath and Punnapra South Panchayath in Ambalapuzha Constituency Alappuzha District

Detailed Estimate

(Dsor year: 2016,Cost Index Applied for this estimate is 48.71%)

SI No	Description	No	L	В	D	CF	Quantity	Remark	
	1 Appendix A-Construction of Groyne Field								
1	od45835/2019_2020 Dismantling stones in the sea wall to construct the Groyne portion and Dumping in position suitably to form the armour course of sea wall as per approved design(dumping with a lead upto 50m)using rail track								
	or pneumatic type equipment with crane or winches or by any other method								
	dismantling	1	4382.430	1.3.7			4382.430		
	Total Quantity 4382.430 c								
	Total Deducted Quantity 0.000 cum								
	Net Total Quantity 4382.430 cum							cum	
		4 CE	Say 4	382.430 cur	m @ Rs 598	3.38 / cum	Rs 262	2358.46	
2	od44408/2019_2020 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means /with Dozer including cutting and pushing the earth to site of embankment upto a distance of 100 metres (average lead 50 metres), including trimming br>bottom and side slopes in accordance with requirements of lines, grades and cross br>sections. br>All kinds of soil br>All kinds of soil								
	Earth Cutting as per level calculation	1	45955.700				45955.700		
	Total Quantity 45955.700 cum								
	Total Deducted Quantity 0.000 cum								
	Net Total Quantity 45955.700 cum							cum	
	Say 45955.700 cum @ Rs 152.48 / cum Rs 7007325.14						7325.14		
3	60.59.3 A.S. E - Groynes works- Alappuzha - Supplying and laying Filter layer 30cm thick at site of work using 1 kg to 10 kg blasted granite stones per approved design including supply of stones , loading from quarry , conveying to site in tipper , weighing on departmental Weigh Bridge for measurement , unloading , dumping at site to lines and levels , rehandling stones for forming the section with the help of tippers and suitable crane and packing of stones if necessary including hire and operational charges of all tools and plants and all sundry expenses , providing and maintaining the runway for movement of vehicles, crane using spalls gravel or sand etc. complete as per the direction of departmental officers at site.								
	Overall Quantity	1	41352.000				41352.000		
					Tota	al Quantity	41352.000	tonne	

	Total Deducted Quantity						0.000 tonne	
	Net Total Quantity						41352.000 tonne	
	Say 41352.000 tonne @ Rs 758.01 / tonne						Rs 31345229.52	
4	od44409/2019_2020 A.S.E - Groynes works- Alleppy-Supplying and Laying toe mound layer and core layer using 100 kg to 200kg blasted granite stones of specific gravity not less than 2.65 as per approved design , including supply of stones, loading from quarry to tipper by crane and conveying to site, weighing on departmental weigh bridge for measurement , unloading and dumping and packing in position at site to lines and levels to form the armoury layer over the csecondary layer already laid, with heavier stones on top layer, by re- handling stones, packing for forming the section with the help of crane, floating arrangement if necessary, including hire and operational charges of all tools and plants , wages of divers and all sundry expenses , providing and maintaining the top surface of runway for the movement of vehicles, crane using spalls gravel or sand etc complete as per the direction of departmental officers at site							
	Toe mount layer	1	72597.000	5			72597.000	
	Core layer	1	60681.000	SU			60681.000	
		11	NA	$\lambda \lambda$	Tota	al Quantity	133278.00	0 tonne
	Total Deducted Quantity 0.000 tonne							ie
	Net Total Quantity 133278.000 tonne							0 tonne
			Say 133278.0	00 tonne	@ Rs 839.8	35 / tonne	Rs 1119	33528.30
5	od44410/2019_2020 A.S.E - Groynes works- Alleppy-Supplying and Laying under layer using 300 kg to 500kg blasted granite stones of specific gravity not less than 2.65 as per approved design , including supply of stones, loading from quarry to tipper by crane and conveying to site, weighing on departmental weigh bridge for measurement , unloading and dumping and packing in position at site to lines and levels to form the armoury layer over the csecondary layer already laid, with heavier stones on top layer, by re-handling stones, packing for forming the section with the help of crane, floating arrangement if necessary, including hire and operational charges of all tools and plants , wages of divers and all sundry expenses , providing and maintaining the top surface of runway for the movement of vehicles, crane using spalls gravel or sand etc complete as per the direction of departmental officers at site							
	Overall Quantity	1	4292.000				4292.000	
					Tota	al Quantity	4292.000	tonne
	Total Deducted Quantity 0.000 tonne Net Total Quantity 4292.000 tonne						ie	
		Say 4292.000 tonne @ Rs 957.35 / tonne Rs 4108946.20						8946.20
6	od49771/2019_2020 Moulding and supplying 0.8 cum(2T) tetrapod with graded aggregate of 40% 75mm to 40mm, 30% 40mm to 20mm and 30% 20mm to 6mm using 380kg cement/ m3 of concrete designed for M30 grade concrete (specific gravity of fine aggregate and coarse aggregate should not be less than 2.73 and 2.5 respectively) and the cement shall be 43 grade or higher) minimum cube strength requirement (i) @7 day						le concrete '3 and 2.5	

	- 20 N/mm2 (ii) @ 28 day - 30 N/mm2 and minimum density of concrete 2.5 g/cc including hire and operational charges of tools and plants, mould, curing, rehandling and stacking charges etc., complete as per the instruction of departmental officers at site .								
		1	23902.000				23902.000		
					Tota	al Quantity	23902.000	each	
		d Quantity	0.000 each						
	Net Total Quantity							each	
		Say 23902.000 each @ Rs 7643.04 / each Rs 182683942.08						83942.08	
7	65.104 Conveying 0.8cum (2T) tetrapod from stacking yard and placing in position in two layers according to specification and forming the armour layer of breakwater to lines and levels over the secondary armour layer including hire and operational charges of tools and plants etc., complete as per the direction of the departmental officers at site								
		1	23902.000	2	1		23902.000		
		610	N B	1X	Tota	al Quantity	23902.000 each		
		1 S	10100	To	tal Deducte	d Quantity	0.000 each		
	Net Total Quantity 23902.000 each						each		
			Say 23902.0	00 each	@ Rs 880.	45 / each	Rs 2104	44515.90	
8	od49788/2019_2020 Moulding and supplying cement concrete 2m3 (5T) tetrapod with graded aggregate of 40% 75mm to 40 mm, 30% 40 to 20mm, 30% 20 to 5mm using 380 kg cement /m3 of concrete designed for M30 grade concrete (specific gravity of fine aggregate and course aggregateshould not be less than 2.73 and 2.5 respectively) and the cement shall be 43 grade or higher) minimum cube strength requirement (i) @ 7 day - 20N/mm2 (ii) @ 28 day - 30N/mm2 and minimum density of concrete 2.5 g/cc. including hire and operational charge of tools and plants moulding and rehandling and stacking charge etc complete according to specification and instructions of Engineer								
		1	2956.000				2956.000		
	Total Quantity 2956.000 each						each		
	Total Deducted Quantity 0.000 each							h	
	Net Total Quantity 2956.000 each Say 2956.000 each @ Rs 19038.56 / each Rs 56277983.36						each		
							7983.36		
9	65.115 Conveying 2 m3 (5T) tetrapods from stacking and placing in two layer according to specification and forming the armour layer of break water to lines and levels at depth of water 8m and above including hire and operational charges of tools and plants etc complete								
		1	2956.000				2956.000		

	Total Deducted Quantity	0.000 each					
	Net Total Quantity	2956.000 each					
	Say 2956.000 each @ Rs 1805.77 / each	Rs 5337856.12					
10	od44843/2019_2020 Supply and Installation of Geo Mat for sea wall- The geo mat must be of a non woven composit material. The composite must be of a laid geogrid made of stretch monolithic polypropylene (PP) flat bar with welded junctions and mechanical bonded filter geotextile welded within the geogrid structure. Join of geomats must have an overlap of not less than 1.5 metres. The Contractor must submit details of th fixing and joining arrangements of the geomats to be approved by the Engineer. Outer edges of th geomats must be hemmed using high strength nylon. Temporary fixing of the geomat is required and th Contractor must submit details of this for approval by the Engineer.						
	1 10366.000	10366.000					
	Total Quantity	10366.000 sqm					
	Total Deducted Quantity	0.000 sqm					
	Net Total Quantity	10366.000 sqm					
	Say 10366.000 sqm @ Rs 84.08 / sqm	Rs 871573.28					
	Supplying of Mechanically Bonded, Needle Punchered Polypropylene Non-Woven geotextile filter/seperation media below sea wall as per MoRTH 700 Type-I Geotextile suitable for harsh inst with elongation at failure <50%. The width of geotextile roll shall not be less than 4.5 m, at all lo with all leads and lifts, manpower and machinery, materials, labour etc. complete and as direct Engineer - In - Charge. 1111983- 10366						
	Total Quantity	101617.000 sqm					
	Total Deducted Quantity	0.000 sqm					
	Net Total Quantity Say 101617.000 sqm @ Rs 160.62 / sqm	101617.000 sqm					
SI No	Description No L B D CF	Rs 16321722.54					
2 Installation of four numbers of weigh bridges including PCs near the site for weighing and documenting the weight of stones including the rent payable.							
	Lump-Sum Total Rs 4650000.00						
	Provision for GST payments (in %) @	0.0%					
	0.00						
	444204981.00						
	95019.00						
TOTAL Rs 44430000.00							

Rounded Total Rs 44,43,00,000

Rupees Forty Four Crore Forty Three Lakh Only

(Cost Index Applied for this estimate is 48.71%)



Other Engineering Organisations PRICE