

TS Register No: 269/2019-2020

AS Register No:292/2019-2020

Construction of 16 nos. Groyne Field at Vattachal in between Ch.53.400 to Ch.55.200 Km at Arattupuzha Grama Panchayath in Harippad Constituency

Detailed Estimate

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

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1 Appendix A-Construction of Groyne Field								
1	od45842/2019_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	1511.450				1511.450	
	Total Quantity						1511.450 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						1511.450 cum	
	Say 1511.450 cum @ Rs 598.38 / cum						Rs 904421.45	
2	od44251/2019_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 bottom and side slopes in accordance with requirements of lines, grades and cross sections. All kinds of soil All kinds of soil							
	Earth Cutting as per level calculation	1	6238.860				6238.860	
	Total Quantity						6238.860 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						6238.860 cum	
	Say 6238.860 cum @ Rs 152.48 / cum						Rs 951301.37	
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	24136.000				24136.000	
	Total Quantity						24136.000 tonne	

		Total Deducted Quantity				0.000 tonne	
		Net Total Quantity				24136.000 tonne	
		Say 24136.000 tonne @ Rs 758.01 / tonne				Rs 18295329.36	
4	<p>od44252/2019_2020</p> <p>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</p>						
	Toe mount layer	1	40702.000			40702.000	
	Core layer	1	30566.000			30566.000	
		Total Quantity				71268.000 tonne	
		Total Deducted Quantity				0.000 tonne	
		Net Total Quantity				71268.000 tonne	
		Say 71268.000 tonne @ Rs 839.85 / tonne				Rs 59854429.80	
5	<p>od44253/2019_2020</p> <p>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</p>						
	Overall Quantity	1	6083.000			6083.000	
		Total Quantity				6083.000 tonne	
		Total Deducted Quantity				0.000 tonne	
		Net Total Quantity				6083.000 tonne	
		Say 6083.000 tonne @ Rs 957.35 / tonne				Rs 5823560.05	
6	<p>od49795/2019_2020</p> <p>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 - 20 N/mm2 (ii) @ 28 day - 30 N/mm2 and minimum density of concrete 2.5 g/cc including hire and</p>						

	operational charges of tools and plants, mould, curing, rehandling and stacking charges etc., complete as per the instruction of departmental officers at site .							
		1	8941.000				8941.000	
	Total Quantity						8941.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						8941.000 each	
	Say 8941.000 each @ Rs 7643.04 / each						Rs 68336420.64	
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	8941.000				8941.000	
	Total Quantity						8941.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						8941.000 each	
	Say 8941.000 each @ Rs 880.45 / each						Rs 7872103.45	
8	od49797/2019_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 aggregates 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 - 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	3432.000				3432.000	
	Total Quantity						3432.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						3432.000 each	
	Say 3432.000 each @ Rs 19038.56 / each						Rs 65340337.92	
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	3432.000				3432.000	
	Total Quantity						3432.000 each	
	Total Deducted Quantity						0.000 each	

							Net Total Quantity	3432.000 each
							Say 3432.000 each @ Rs 1805.77 / each	Rs 6197402.64
10	od44787/2019_2020 Supplying of Mechanically Bonded, Needle Punched Polypropylene Non-Woven geotextile Mat as filter/seperation media below sea wall as per MoRTH 700 Type-I Geotextile suitable for harsh installation with elongation at failure < 50%. The width of geotextile roll shall not be less than 4.5 m, with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by Engineer - In - Charge.							
		1	76299.000				76299.000	
							Total Quantity	76299.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	76299.000 sqm
							Say 76299.000 sqm @ Rs 160.62 / sqm	Rs 12255145.38
SI No	Description	No	L	B	D	CF	Quantity	Remark
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%	
Amount reserved for GST payments							0.00	
Total							250480452.00	
Lumpsum for round off							19548.00	
							TOTAL Rs 250500000.00	
							Rounded Total Rs 25,05,00,000	
Rupees Twenty Five Crore Five Lakh Only								

(Cost Index Applied for this estimate is 48.71%)