TS Register No: 267/2019-2020 AS Register No:290/2019-2020

Construction of 13 nos Groyne field at Pathiyankara in between chainage 60.100 to 61.600 KM at Thrikkunnapuzha in Harippad constituancy in Alappuzha district.

Detailed Estimate

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

	Description	No	L	В	D	CF	Quantity	Remark		
		1 Appendi	ix A-Constr	uction of G	royne Field					
1	od45844/2019_2020 Dismantling stones in the sea wall to construct the Groyne portion and Dumping in position suitably form the armour course of sea wall as per approved design(dumping with a lead upto 50m)using rail tra or pneumatic type equipment with crane or winches or by any other method									
	dismantling	1	1210.900	KOA N	,		1210.900			
	Ŭ		C. 0 1	11 3.	Tota	al Quantity	1210.900	cum		
	Total Deducted Quantity						0.000 cum	1		
		16	Net Total Quantity			al Quantity	1210.900 cum			
		1/51	Say 1	210.900 cur	m @ Rs 598	3.38 / cum	Rs 724578.34			
	lead 50 metres), includ grades and cross Earth Cutting as per level calculation	_	_		-		h requireme	nts of line		
			1104.200				4154.280			
	16 voi calculation		4104.200		Tota	al Quantity		cum		
	iover darealation		4104.200	То	Tota	al Quantity	4154.280 4154.280 0.000 cum			
			4101.200	То	tal Deducte		4154.280	1		
				To	tal Deducte Net Tota	d Quantity	4154.280 0.000 cum 4154.280	1		
3	60.59.3 A.S. E - Groynes works kg to 10 kg blasted graconveying to site in tip dumping at site to lines suitable crane and pacplants and all sundry e using spalls gravel or site of the suitable crane and pacplants and all sundry e using spalls gravel or site of the sundry end of t	nite stones oper, weig and levels king of stor xpenses, p	Say 4 a - Supplying per approve thing on depute the contraction of th	and laying and laying and laying design incommental strongs for the sary including the maintaining and the sary including the s	Net Total Met To	d Quantity al Quantity 2.48 / cum r 30cm thick bly of stones ge for mea section with operational ay for move	4154.280 0.000 cum 4154.280 Rs 633 c at site of w s, loading fr surement, the help of charges of a ment of vehi	cum 3444.61 ork using om quariunloadin tippers a all tools a cles, cra		
3	60.59.3 A.S. E - Groynes works kg to 10 kg blasted graconveying to site in till dumping at site to lines suitable crane and pacplants and all sundry e	nite stones oper, weig and levels king of stor xpenses, p	Say 4 a - Supplying per approve thing on depute the contraction of th	and laying and laying and design incontants of the direct the direct	Net Total Met To	d Quantity al Quantity 2.48 / cum r 30cm thick bly of stones ge for mea section with operational ay for move	4154.280 0.000 cum 4154.280 Rs 633 c at site of w s, loading fr surement, the help of charges of a ment of vehi	cum 3444.61 ork using om quariunloadin tippers a all tools a cles, cra		

	Total Deducted Quantity 0.000 tonne									
		0.000 tonne								
	Net Total Quantity							tonne		
	Say 17440.000 tonne @ Rs 758.01 / tonne Rs 13219694.40									
4	A.S.E - Groynes works- Alleppy-Supplying and Laying toe mound layer and core layer us 200kg blasted granite stones of specific gravity not less than 2.65 as per approved design supply of stones, loading from quarry to tipper by crane and conveying to site, weighing on weigh bridge for measurement, unloading and dumping and packing in position at site to line to form the armoury layer over the csecondary layer already laid, with heavier stones on top handling stones, packing for forming the section with the help of crane, floating arrangement including hire and operational charges of all tools and plants, wages of divers and all sund providing and maintaining the top surface of runway for the movement of vehicles, crane gravel or sand etc complete as per the direction of departmental officers at site									
	Toe mount layer	1	32263.000	٠,,			32263.000			
	Core layer	1-7	23073.000	84	1		23073.000			
		FI	YAMAN	ΛX	Tota	al Quantity	55336.000	tonne		
	Total Deducted Quantity						0.000 tonne			
	Net Total Quantity 55							55336.000 tonne		
			Say 55336.000	tonne	@ Rs 839.8	35 / tonne	Rs 4647	3939.60		
5	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	1770.000				1770.000			
					Tota	al Quantity	1770.000 1	tonne		
	Total Deducted Quantity 0.000 tonne									
	Net Total Quantity 1770.000 tonne									
	Say 1770.000 tonne @ Rs 957.35 / tonne Rs 1694509.50									
6	od49799/2019_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 2.7 respectively) and the cement shall be 43 grade or higher) minimum cube strength requirement (i) @7 da - 20 N/mm2 (ii) @ 28 day - 30 N/mm2 and minimum density of concrete 2.5 g/cc including hire and									

	per the instruction of de	<u>'</u>						
		1	8930.000			8930.000		
					Total Quantity	8930.000 each		
		0.000 each						
				Net ⁻	Total Quantity	8930.000 each		
			Say 8930.000 e	ach @ Rs 76	343.04 / each	Rs 68252347.2		
7	65.104 Conveying 0.8cum (2T) tetrapod from stacking yard and placing in position in two layers according specification and forming the armour layer of breakwater to lines and levels over the secondary armolayer including hire and operational charges of tools and plants etc., complete as per the direction of departmental officers at site							
		1	8930.000	7		8930.000		
				10	Total Quantity	8930.000 each		
		11	MAN	Total Dedu	0.000 each			
		DA	11019	Net ⁻	Total Quantity	8930.000 each		
8	od49800/2019_2020 Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra	, 30% 20 1	o 5mm using 380 kg	trapod with	graded aggreg	designed for M30 gr		
8	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra- respectively) and the d day - 20N/mm2 (ii) @ operational charge of	, 30% 20 to vity of fine cement sha 28 day - 3 tools and	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar	trapod with good coment /m3 se aggregate gher) minimum density on the condition of the cond	graded aggreg of concrete of eshould not be um cube streng concrete 2.5	ate of 40% 75mm to designed for M30 graphs less than 2.73 and gth requirement (i) g/cc. including hire		
8	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra respectively) and the d day - 20N/mm2 (ii) @	, 30% 20 to vity of fine cement shape 28 day - 3 tools and atton and in the control of the contr	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir	trapod with good coment /m3 se aggregate gher) minimum density on the condition of the cond	graded aggreg of concrete of eshould not be um cube streng concrete 2.5	ate of 40% 75mm to designed for M30 graph less than 2.73 and gth requirement (i) g/cc. including hire g charge etc comp		
8	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra- respectively) and the d day - 20N/mm2 (ii) @ operational charge of	, 30% 20 to vity of fine cement sha 28 day - 3 tools and	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar	trapod with good comment of the comm	graded aggreg of concrete of eshould not be um cube streng concrete 2.5 g and stackin	ate of 40% 75mm to designed for M30 grade less than 2.73 and gth requirement (i) g/cc. including hire g charge etc comp		
8	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra- respectively) and the d day - 20N/mm2 (ii) @ operational charge of	, 30% 20 to vity of fine cement shape 28 day - 3 tools and atton and in the control of the contr	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir	trapod with of cement /m; se aggregate gher) minimum density on the cement /m; which is the cement /m;	graded aggreg of concrete of eshould not be um cube streng concrete 2.5 g and stackin	ate of 40% 75mm to designed for M30 grade less than 2.73 and gth requirement (i) g/cc. including hire g charge etc composition		
8	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra- respectively) and the d day - 20N/mm2 (ii) @ operational charge of	, 30% 20 to vity of fine cement shape 28 day - 3 tools and atton and in the control of the contr	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir	trapod with of cement /m: se aggregate gher) minimum density on drehandling neer	graded aggreg of concrete of eshould not be um cube streng concrete 2.5 g and stackin Total Quantity cted Quantity	ate of 40% 75mm to designed for M30 graph requirement (i) g/cc. including hire g charge etc composition 1199.000 each 0.000 each		
8	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra- respectively) and the d day - 20N/mm2 (ii) @ operational charge of	, 30% 20 to vity of fine cement shape 28 day - 3 tools and atton and in the control of the contr	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir	trapod with of cement /m3 se aggregate gher) minimum density on the condition of the condit	graded aggreg of concrete of eshould not be um cube streng concrete 2.5 g and stackin Fotal Quantity Cotal Quantity	ate of 40% 75mm to designed for M30 graph requirement (i) g/cc. including hire g charge etc composition 1199.000 each 0.000 each 1199.000 each		
9	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific gra- respectively) and the d day - 20N/mm2 (ii) @ operational charge of	yity of fine cement shape 28 day - 3 tools and ation and in tetrapods eer of break	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir 1199.000 Say 1199.000 eafrom stacking and per water to lines and less than the concrete and the	trapod with a cement /m3 se aggregate gher) minimum density on the rehandling neer Total Dedu Net 10 ch @ Rs 190 lacing in two evels at depth	graded aggreg of concrete of eshould not be of concrete 2.5 of concrete 2.5 of and stackin Total Quantity of total Quantity	ate of 40% 75mm to designed for M30 graph requirement (i) g/cc. including hire g charge etc composition 1199.000 each 1199.000 each 1199.000 each Rs 22827233.4 fing to specification		
	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific grarespectively) and the day - 20N/mm2 (ii) @ operational charge of according to specificate 65.115 Conveying 2 m3 (5T) forming the armour lay	yity of fine cement shape 28 day - 3 tools and ation and in tetrapods eer of break	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir 1199.000 Say 1199.000 eafrom stacking and per water to lines and less than the concrete and the	trapod with a cement /m3 se aggregate gher) minimum density on the rehandling neer Total Dedu Net 10 ch @ Rs 190 lacing in two evels at depth	graded aggreg of concrete of eshould not be of concrete 2.5 of concrete 2.5 of and stackin Total Quantity of total Quantity	ate of 40% 75mm to designed for M30 graph requirement (i) g/cc. including hire g charge etc composition 1199.000 each 1199.000 each 1199.000 each Rs 22827233.4 fing to specification		
	Moulding and supplyin mm, 30% 40 to 20mm concrete (specific grarespectively) and the day - 20N/mm2 (ii) @ operational charge of according to specificate 65.115 Conveying 2 m3 (5T) forming the armour lay	tetrapods er of breakes of tools a	concrete 2m3 (5T) te o 5mm using 380 kg aggregate and cour all be 43 grade or hi 0N/mm2 and minimu plants moulding ar nstructions of Engir 1199.000 Say 1199.000 ear from stacking and pays water to lines and learnd plants etc completed.	trapod with a cement /m3 se aggregate gher) minimum density on the rehandling neer Total Dedu Net 10 ch @ Rs 190 lacing in two evels at depthete	graded aggreg of concrete of eshould not be of concrete 2.5 of concrete 2.5 of and stackin Total Quantity of total Quantity	ate of 40% 75mm to designed for M30 greaters than 2.73 and gth requirement (i) g/cc. including hire g charge etc composition of the following that is a second of the following to specification and above including the second of the following that is a second of the following tha		

					Net Tot	al Quantity	1199.000	each	
	Say 1199.000 each @ Rs 1805.77 / each							5118.23	
10	od44791/2019_2020 Supplying of Mecha filter/seperation med with elongation at fa with all leads and life Engineer - In - Char	anically Bond lia below sea allure <50%.T ts, manpower	wall as per Mo he width of ge	RTH 700 otextile ro	Type-I Geo	textile suitat be less thar	ole for harsh n 4.5 m, at a	installation all locations	
		1	43835.000				43835.000		
		1			Tot	al Quantity	43835.000) sqm	
	Total Deducted Quantity							0.000 sqm	
	Net Total Quantity						43835.000 sqm		
			Say 438	35.000 sqr	m @ Rs 160	0.62 / sqm	Rs 7040777.70		
SI No	Description	No	12 16 6	В	D	CF	Quantity	Remark	
2 Insta	llation of four number		of stones inclu	7. 70 / 200		le.	ng and doc		
		200	Prov	vision for G	ST paymer	nts (in %) @	0.	.0%	
			Amount reserv	ed for GS	T payments		0.00		
		Other E1	ngineerin	g Orga	anisatia	ns ·	173244062.	00	
			DI	umpsum f	or round off	7	55938.00		
			K			тс	TAL Rs 17	3300000.00	
						Rounded	Total Rs 1	7,33,00,000	
				Ru	upees Seve	nteen Crore	Thirty Three	e Lakh Only	

(Cost Index Applied for this estimate is 48.71%)