TS Register No: 268/2019-2020 AS Register No:291/2019-2020

CONSTRUCTION OF GROYNE FIELDS AT KATTOOR FROM CHAINAGE. 168.465KM TO CH 171.627KM (OLD CH 96.643KM TO CH 99.535 KM) IN ALAPPUZHA

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 Append	lix A-Constru	uction of G	royne Filed					
1	od45838/2019_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	1946.080				1946.080			
			NY 5	K X	Tota	al Quantity	1946.080	cum		
	Total Deducted Quantity						0.000 cum			
		Net Total Quantity						cum		
	Say 1946.080 cum @ Rs 598.38 / cum						Rs 1164495.35			
	lead 50 metres), included grades and cross Earth Cutting as per level calculation				- 11	/	th requirement 42121.866	nts of line		
	level calculation				 Tot:	 al Quantity	42121.866	cum		
	Total Deducted Quantity							0.000 cum		
	Net Total Quantity						42121.866 cum			
	Say 42121.866 cum @ Rs 152.48 / cum						Rs 6422	2742.13		
3	A.S. E - Groynes works- Alappuzha - Supplying and laying Filter layer 30cm thick at site of work using kg to 10 kg blasted granite stones per approved design including supply of stones, loading from quarr 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 at suitable crane and packing of stones if necessary including hire and operational charges of all tools at plants and all sundry expenses, providing and maintaining the runway for movement of vehicles, cranusing spalls gravel or sand etc. complete as per the direction of departmental officers at site.									
	kg to 10 kg blasted graconveying to site in tidumping at site to lines suitable crane and pacplants and all sundry e	nite stones pper, weig and levels king of stor xpenses,	s per approve ghing on dep s, rehandling nes if necess providing and	ed design in partmental ' stones for f eary includin d maintainin	cluding support of the support of th	oly of stones ge for mea section with operational ay for move	s, loading from surement, use the help of the charges of a ment of vehi	om quari unloadin tippers a Il tools a cles, cra		
	kg to 10 kg blasted graconveying to site in tidumping at site to lines suitable crane and pacplants and all sundry e	nite stones pper, weig and levels king of stor xpenses,	s per approve ghing on dep s, rehandling nes if necess providing and	ed design in partmental ' stones for f eary includin d maintainin	cluding support of the support of th	oly of stones ge for mea section with operational ay for move	s, loading from surement, use the help of the charges of a ment of vehi	om quari unloadin tippers a Il tools a cles, cra		

		0.000 tonne						
		40413.000 tonne						
		Rs 30633458.13						
4	od44389/2019_2020 A.S.E - Groynes works- Alleppy-Supplying and Laying toe mound layer and core layer using 100 kg 200kg blasted granite stones of specific gravity not less than 2.65 as per approved design, includ supply of stones, loading from quarry to tipper by crane and conveying to site, weighing on departmen weigh bridge for measurement, unloading and dumping and packing in position at site to lines and lev to form the armoury layer over the csecondary layer already laid, with heavier stones on top layer, by 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 spangravel or sand etc complete as per the direction of departmental officers at site							
	Toe mount layer	1	73414.000 55505.000	15		73414.000 55505.000		
	Core layer	61	33303.000	Tot	al Quantity	128919.000 tonne		
		0.000 tonne						
		128919.000 tonne						
	Net Total Quantity 128919.000 ton Say 128919.000 tonne @ Rs 839.85 / tonne Rs 108272622							
5	A.S.E - Groynes works- Alleppy-Supplying and Laying under layer using 300 kg to 500kg blasted gran stones of specific gravity not less than 2.65 as per approved design, including supply of stones, loadi from quarry to tipper by crane and conveying to site, weighing on departmental weigh bridge is measurement, unloading and dumping and packing in position at site to lines and levels to form to armoury layer over the csecondary layer already laid, with heavier stones on top layer, by re-handli stones, packing for forming the section with the help of crane, floating arrangement if necessal 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 spangravel or sand etc complete as per the direction of departmental officers at site							
	Overall Quantity	1	4678.000			4678.000		
	Total Quantity					4678.000 tonne		
	Total Deducted Quantity 0.000 tonne							
		4678.000 tonne						
			Say 4678.000	tonne @ Rs 957.	35 / tonne	Rs 4478483.30		
6	od49792/2019_2020 Moulding and supplyin to 20mm and 30% 20r (specific gravity of f	mm to 6mm	n using 380kg cem		te designed	for M30 grade concr		

	operational charges of the per the instruction of de			ng, rena	ndling and	stacking ch	larges etc., o	complete	
		1	21562.000				21562.000		
				•	Tota	al Quantity	21562.000	each	
				Tot	al Deducte	d Quantity	0.000 each		
					Net Tota	al Quantity	21562.000	each	
			Say 21562.000	each (@ Rs 7643.	04 / each	Rs 1647	99228.4	
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 the departmental officers at site								
	dopartinoniai omosio a	1	21562.000	8:3			21562.000		
		61	W AS	K	Tota	al Quantity	21562.000		
	Total Deducted Quantity						0.000 each		
	Net Total Quantity						21562.000 each		
8	od49794/2019_2020		Say 21562.00	00 each	@ Rs 880.	45 / each	Rs 189	34262.90	
8	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific gravespectively) and the coday - 20N/mm2 (ii) @ 200 operational charge of	, 30% 20 to vity of fine ement sha 28 day - 30 tools and	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or ON/mm2 and mining	tetrapo kg cem urse ag higher) mum de and rel	od with grad ent /m3 of gregatesh minimum ensity of co	ded aggregations deducted aggregation aggr	ate of 40% lesigned for less than 2 gth requiren g/cc. includi	75mm to M30 gra .73 and nent (i) (ing hire a	
8	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific graves respectively) and the coday - 20N/mm2 (ii) @ 2	, 30% 20 to vity of fine ement sha 28 day - 30 tools and	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or ON/mm2 and mining	tetrapo kg cem urse ag higher) mum de and rel	od with grad ent /m3 of gregatesh minimum ensity of co	ded aggregations deducted aggregation aggr	ate of 40% lesigned for less than 2 gth requiren g/cc. includi	75mm to M30 gra .73 and nent (i) (ing hire a	
8	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific gravespectively) and the coday - 20N/mm2 (ii) @ 200 operational charge of	, 30% 20 to vity of fine the cement shad 28 day - 30 tools and ition and itinutes	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or 0N/mm2 and mining plants moulding	tetrapo kg cem urse ag higher) mum de and rel	ent /m3 of geregatesh minimum ensity of co handling a	ded aggregations deducted aggregation aggr	ate of 40% designed for less than 2 gth requirent g/cc. including charge et	75mm to M30 gra .73 and nent (i) (i) ng hire a	
8	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific gravespectively) and the coday - 20N/mm2 (ii) @ 200 operational charge of	, 30% 20 to vity of fine the cement shad 28 day - 30 tools and ition and itinutes	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or 0N/mm2 and mining plants moulding	tetrapo kg cem durse ag higher) mum de and rei gineer	ent /m3 of geregatesh minimum ensity of co handling a	ded aggregations deducted aggregation aggregation aggregation aggregation aggregation aggrega	ate of 40% designed for less than 2 gth requirem g/cc. including charge et	75mm to M30 gra .73 and nent (i) 6 ng hire a c compl	
8	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific gravespectively) and the coday - 20N/mm2 (ii) @ 200 operational charge of	, 30% 20 to vity of fine the cement shad 28 day - 30 tools and ition and itinutes	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or 0N/mm2 and mining plants moulding	tetrapo kg cem durse ag higher) mum de and rei gineer	d with gradent /m3 of gregatesh minimum ensity of cohandling a	ded aggregations deducted aggregation aggregation aggregation aggregation aggregation aggrega	ate of 40% designed for less than 2 gth requirem g/cc. including charge et 3144.000	75mm to M30 gra .73 and nent (i) 6 ng hire a c comple each	
8	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific gravespectively) and the coday - 20N/mm2 (ii) @ 200 operational charge of	, 30% 20 to vity of fine the cement shad 28 day - 30 tools and ition and itinutes	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or 0N/mm2 and mining plants moulding	tetrapo kg cem urse ag higher) mum de and rel gineer	d with gradent /m3 of gregatesh minimum ensity of cohandling a Total	ded aggregations of the concrete decould not be cube streng norete 2.5 and stacking al Quantity de Quantity al Quantity	ate of 40% designed for less than 2 gth requirem g/cc. including charge et 3144.000 0.000 eac 3144.000	75mm to M30 gra .73 and nent (i) 6 ng hire a c comple each	
9	Moulding and supplying mm, 30% 40 to 20mm, concrete (specific gravespectively) and the coday - 20N/mm2 (ii) @ 200 operational charge of	tetrapods	concrete 2m3 (5T) o 5mm using 380 aggregate and co all be 43 grade or 0N/mm2 and mining plants moulding instructions of En 3144.000 Say 3144.000 from stacking and water to lines and	tetrapo kg cem lurse ag higher) mum de and rel gineer Tot each @	Total Rs 19038.	ded aggregation concrete doubt not be cube streng ncrete 2.5 and stacking displayed Quantity al Quantity al Quantity 56 / each	ate of 40% Resigned for less than 2 gth requirer g/cc. including charge et 3144.000 0.000 eac 3144.000 Rs 598	75mm to M30 grand 173 and ment (i) (in ghire and complement) each heach 157232.64	

	Total Deducted Quantity							0.000 each		
	Net Total Quantity							3144.000 each		
	Say 3144.000 each @ Rs 1805.77 / each						Rs 5677340.88			
10	od44784/2019_2020 Supplying of Mechanically Bonded, Needle Punchered Polypropylene Non-Woven geotextile Mat a filter/seperation media below sea wall as per MoRTH 700 Type-I Geotextile suitable for harsg installation with elongation at failure <50%. The width of geotextile roll shall not be less than 4.5 m, at all location with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by									
	Engineer - In - Charg	1	112083.00				112083.00 0			
		112083.000 sqm								
	Total Deducted Quantity						0.000 sqm			
	Net Total Quantity						112083.000 sqm			
	Say 112083.000 sqm @ Rs 160.62 / sqm						Rs 18002771.46			
SI No	Description	No	L	В	D	CF	Quantity	Remark		
z instai		the weight of	of stones inclu	iding the	e rent payal	ole.	s 4650000.	00		
	Other Enginee Provision for GST payments (in %) @									
		S	0.00							
			$K \rightarrow$		Tota	al 4	422942637.	00		
				umpsum	for round or	ff	57363.00			
						TC	TAL Rs 42	3000000.0		
						Rounded	Total Rs 4	2,30,00,00		
					Rupe	es Forty Two	Crore Thirt	y Lakh On		

(Cost Index Applied for this estimate is 48.71%)