TS Register No: 346/2019-2020 AS Register No:369/2019-2020

Construction of 21 nos.Groyne Field at Arattupuzha in between Ch. 56.600 to 57.800 Km at Arattupuzha Grama Panchayath in Harippad Constituency

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 Filed			
1	od42185/2019_2020 Dismantling stones in form the armour course or pneumatic type equi	of sea wal	l as per appı	roved design	n(dumping w	ith a lead u	•	-
	dismantling	1	745.650	KOA_	,		745.650	
	J		C.0 1		Tota	al Quantity	745.650 c	um
		1	7	То	tal Deducte	<u> </u>	0.000 cum	
		16	Net Total Quantity			745.650 cum		
		1/51	Say 745.650 cum @ Rs 598.38 / cum				Rs 446182.05	
	including cutting and p lead 50 metres), includ grades and cross br>s Earth Cutting as per level calculation	ing trimmin	g bottom	n and side sl f soil All	opes in acc	ordance wit		•
	lever carcalation							
					Tota	al Quantity		cum
				То	Tota	al Quantity d Quantity	3240.122 0.000 cum	
				То	tal Deducte		3240.122	l
			Say 3	To 3240.122 cur	tal Deducte Net Tota	d Quantity	3240.122 0.000 cum 3240.122	l
3	60.59.3 A.S. E - Groynes works kg to 10 kg blasted graconveying to site in tild dumping at site to lines suitable crane and pacplants and all sundry e using spalls gravel or site.	nite stones oper, weig and levels king of stor xpenses, p	na - Supplyin per approve thing on dep , rehandling nes if necess providing and	ag and laying and laying and design incommental strongs for farry including maintaining	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	3240.122 0.000 cum 3240.122 Rs 494 at site of w s, loading fr surement, the help of charges of a ment of vehi	cum 1053.80 ork using om quariunloadin tippers a all tools a cles, cra
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	na - Supplyin per approve thing on dep , rehandling nes if necess providing and	ag and laying and laying and design incommental values for fary including maintaining out 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	3240.122 0.000 cum 3240.122 Rs 494 at site of w s, loading fr surement, the help of charges of a ment of vehi	cum 1053.80 ork using om quariunloadin tippers a all tools a cles, cra

	Total Deducted Quantity 0.000 tonne								
	Net Total Quantity						22785.000 tonne		
			Say 22785	5.000 tonne	@ Rs 758.	01 / tonne	Rs 1727	71257.85	
4	od56707/2018_2019 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 departmenta 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 rehandling 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	37223.000	n.			37223.000		
	Core layer	1	31049.000	9 Ed.			31049.000		
		11	MAG	31/1	Tota	al Quantity	68272.000	tonne	
	Total Deducted Quantity						0.000 tonne		
	Net Total Quantity						68272.000 tonne		
			Say 68272	2.000 tonne	@ Rs 839.	85 / tonne	Rs 5733	38239.20	
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	3440.000				3440.000		
	Total Quantity 3440.000 tonne								
	Total Deducted Quantity 0.000 tonne								
	Net Total Quantity 3440.000 tonne								
	Say 3440.000 tonne @ Rs 957.35 / tonne								
6	od49802/2019_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 - 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 pla per the instruction of departmental of		ng, rehai	ndling and sta	acking cha	arges etc., complete as			
	1	9874.000				9874.000			
				Total C	Quantity	9874.000 each			
			Tota	al Deducted (Quantity	0.000 each			
				Net Total (Quantity	9874.000 each			
		Say 9874.00	0 each @	® Rs 7643.04	/ each	Rs 75467376.96			
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	9874.000				9874.000			
		13 6W	540	Total C	Quantity	9874.000 each			
	(1)		Tota	al Deducted (Quantity	0.000 each			
) A	DISE	W	Net Total C	Quantity	9874.000 each			
	1,445	Say 9874.0	00 each	@ Rs 880.45	/ each	Rs 8693563.30			
8	od49804/2019_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	2385.000				2385.000			
				Total 0	Quantity	2385.000 each			
		0.000 each							
		Quantity	2385.000 each						
		/ each	Rs 45406965.60						
9	65.115 Conveying 2 m3 (5T) tetrapods from forming the armour layer of break wand operational charges of tools and	ater to lines and	d levels a	•		• '			
	1	2385.000				2385.000			
				Total (Quantity	2385.000 each			
			Tota	al Deducted 0	Quantity	0.000 each			

						tal Quantity	2385.000	each	
			Say 238	5.000 each	@ Rs 1808	5.77 / each	Rs 430	6761.45	
10	od44838/2019_2020 Supply and Installation of Geo Mat for sea wall- The geo mat must be of a non woven composite material. The composite must be of a laid geogrid made of stretch monolithic polypropylene (PP) flat bars with welded junctions and mechanical bonded filter geotextile welded within the geogrid structure. Joins of geomats must have an overlap of not less than 1.5 metres. The Contractor must submit details of the fixing and joining arrangements of the geomats to be approved by the Engineer. Outer edges of the geomats must be hemmed using high strength nylon. Temporary fixing of the geomat is required and the Contractor must submit details of this for approval by the Engineer.								
		1	1359.000				1359.000		
		·	200	(C)	To	tal Quantity	1359.000	sqm	
	Total Deducted Quantity							0.000 sqm	
	Net Total Quantity						1359.000 sqm		
		6	Say	1359.000 s	qm @ Rs 8	4.08 / sqm	Rs 114	4264.72	
	Il nainear In Chara			, , , , , , , , , , , , , , , , , , , ,	alo, labour	oto: oompioi	ic and as	airectea b	
	Engineer - In - Charge	ther E	17157+47 582	ng Org	anisatio	ons	64739.000		
	Engineer - III - Charg	ther E	17157+47	ng Org	anisatio	tal Quantity	64739.000 64739.000	sqm	
	Engineer - III - Charg	ther E	17157+47	ng Org	To otal Deductor	ons	64739.000	sqm	
	Engineer - III - Charg	ther E	17157+47 582	ng Org	To otal Deductor	tal Quantity ed Quantity tal Quantity	64739.000 64739.000 0.000 sqn 64739.000	sqm	
SI No	Description	e. ther E	17157+47 582	ng Org	To otal Deductor	tal Quantity ed Quantity tal Quantity	64739.000 64739.000 0.000 sqn 64739.000	sqm n sqm	
	Description ation of four numbers	No sof weigh b	17157+47 582 Say 64	To 739.000 sq	To tal Deductor Net To m @ Rs 16	tal Quantity ed Quantity tal Quantity 0.62 / sqm CF e for weighi	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity	98378.18 Remark	
	Description ation of four numbers	No No sof weight of the weight of	Say 64 L oridges included stones included the stones included th	To 739.000 sq	To tal Deductor Net To m @ Rs 16	tal Quantity and Quantity tal Quantity 0.62 / sqm CF ce for weighible.	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity	sqm sqm sqm 98378.18 Remark umenting	
	Description ation of four numbers	No sof weigh b	Say 64 L oridges included stones included st	To 739.000 sq B ding PCs n luding the	nnisation To tal Deducto Net To m @ Rs 16 D ear the site rent payak	tal Quantity and Quantity tal Quantity 0.62 / sqm CF ce for weighible.	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity ng and doc	sqm sqm sqm 98378.18 Remark umenting	
	Description ation of four numbers	No s of weigh bethe weight of	Say 64 L oridges included stones included st	To 739.000 sq B ding PCs n luding the	nnisation To tal Deducte Net To m @ Rs 16 D ear the site rent payak	tal Quantity ed Quantity tal Quantity 0.62 / sqm	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity ng and doc	sqm sqm sqm 98378.18 Remark umenting	
	Description ation of four numbers	No s of weigh bethe weight of	Say 64 L oridges included stones included to stone in	To 739.000 sq B ding PCs n luding the	nnisation To tal Deducte Net To m @ Rs 16 D ear the site rent payak	tal Quantity ed Quantity tal Quantity 0.62 / sqm	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity ng and doc	sqm sqm sqm 98378.18 Remark umenting 00	
	Description ation of four numbers	No s of weigh bethe weight of	Say 64 L oridges included stones included stones included Amount reservable.	To 739.000 sq B ding PCs n luding the	nnisation To tal Deducto Net To m @ Rs 16 D ear the site rent payate SST payments T payments	tal Quantity ad Quantity tal Quantity tal Quantity 0.62 / sqm	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity ng and doc 8s 4650000.0	98378.18 Remark umenting	
	Description ation of four numbers	No s of weigh bethe weight of	Say 64 L oridges included stones included stones included Amount reservable.	To 739.000 sq B ding PCs n luding the ovision for Coved for GS	nnisation To tal Deducto Net To m @ Rs 16 D ear the site rent payate SST payments T payments	tal Quantity ed Quantity tal Quantity 0.62 / sqm	64739.000 64739.000 0.000 sqm 64739.000 Rs 1039 Quantity ng and doc 8s 4650000.0 0.00 227880327.0	sqm n sqm 98378.18 Remark umenting 00 0%	

Rupees Twenty Two Crore Seventy Nine Lakh Only

(Cost Index Applied for this estimate is 48.71%)

