HINDUSTAN PREFAB LIMITED						
THYCAUD, TRIVANDRUM						
NAME OF WORK : Construction of Compound Wall, Fencing & Entrance Gate, Rain Shelter and Pathway along the sides of Natural Stream for Eco – Adventure Tourism Park Under Swadesh Darshan Scheme at Vagamon, Idukki District.						
NIT No. HPL/DGM(C)/TC/KT/2016-17/106 Dated : 05.01.2017						
BOQ						
Sl. No	**DSR 2016 CODE No:**	**Description**	**Units**	**Qty**	**Rate**	**Amount**
A		**CIVIL WORKS**				
		EARTH WORKS				
1	2.32	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	7600.00	3.65	27,740.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
a	2.6.1	All kinds of soil	Cum	700.00	125.95	88,165.00
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	700.00	125.75	88,025.00
		CONCRETE WORKS				
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
a)	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	85.00	4478.15	380,642.75
		REINFORCED CEMENT CONCRETE				
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :				
a)	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	375.00	6215.35	2,330,756.25
6	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement :				
a)	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	1.00	7145.80	7,145.80

Sl. No	DSR 2016 CODE No:	Description	Units	Qty	Rate	Amount
		FORM WORK				
7	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
a)	5.9.1	Foundations, footings, bases of columns including Grade beams etc. for mass concrete	Sqm	2470.00	193.95	479,056.50
b)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	10.00	467.85	4,678.50
8	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
a)	5.22.6	Thermo-Mechanically Treated bars	Kg	452.27	56.60	25,598.48
		MARBLE & GRANITE WORK				
9	8.2	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
a)	8.2.2	Granite of any colour and shade				
i)	8.2.2.2	Area of slab over 0.50 sum.	Sqm	2.00	3113.30	6,226.60
10	8.3	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
a)	8.3.2	Granite work.	RM	8.00	245.70	1,965.60
		STEEL WORK				
11	10.16	Steel work in built up tubular(round ,square or rectangular hollow tubes etc.) trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
a)	10.16.1	Hot finished welded type tubes	Kg	915.00	90.25	82,578.75
		FINISHING				
12	13.16	6 mm cement plaster of mix :				
a)	13.16.1	1:3 (1 cement : 3 fine sand)	sqm	10.00	143.80	1,438.00
		PAINTING				
13	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				

Sl. No	DSR 2016 CODE No:	Description	Units	Qty	Rate	Amount
a)	13.47.1	New work (Two or more coats applied @ 1.43 ltr/ 10 sum. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	sqm	10.00	96.80	968.00
14	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work	Sqm	500.00	78.40	39,200.00
		Sub Total				**3,564,185.23**
		Add Cost Index 59.80%				**2,131,382.77**
		Total Schedule Items				**5,695,568.00**
		NON SCHEDULE ITEMS				
15	1	Supplying and fixing PVC coated wire of 4 mm GI mesh welded and galvanized steel fabric coated with 0.5mm marine grade polyvinil chlorade(PVC) size 1.5 metre hight, 75 mm dia MS tube as pole at a distance of 1.5 metre,with 50mm x 50mm PVC coated net mesh with PVC Coating of 2mm. Top & bottom rubber beeding.	Sqm	7500.00	2129.20	15,969,000.00
16	2	Compount wall with 10 mm toughened glass with D brackets ,size .9 M x 1.5 M post with SS 404 grade square tube of 1.5 metre hight.	Metre	42.00	20500.00	861,000.00
		Total for Non - Schedule Items				**16,830,000.00**
		Grand Total				**22,525,568.00**

PART II : PROPOSED RAIN SHELTER

ESTIMATE AS PER DSR 2016

Sl. No	DSR CODE No:	Description	Units	Qty	Rate	Amount
A		**CIVIL WORKS**				
		EARTH WORKS				
1	2.32	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	1450.00	3.65	5,292.50
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
a	2.6.1	All kinds of soil	Cum	355.00	125.95	44,712.25
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	355.00	125.75	44,641.25
		CONCRETE WORKS				

Sl. No	DSR 2016 CODE No:	Description	Units	Qty	Rate	Amount
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
a)	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	155.00	4478.15	694,113.25
		REINFORCED CEMENT CONCRETE				
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :				
a)	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	42.00	6215.35	261,044.70
6	5.2.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc., above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
a)		1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	82.00	7145.80	585,955.60
		FORM WORK				
7	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
a)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	282.00	342.90	96,697.80
b)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	1086.00	467.85	508,085.10
		REINFORCEMENT STEEL				
8	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
a)	5.22.6	Thermo-Mechanically Treated bars	Kg	13300.00	56.60	752,780.00
		STONE WORKS				
9	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :				
a)	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	363.00	3965.85	1,439,603.55
		STEEL WORK				
10	10.16	Steel work in built up tubular(round ,square or rectangular hollow tubes etc.) trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
a)	10.16.1	Hot finished welded type tubes	Kg	27070.00	90.25	2,443,067.50

Sl. No	DSR 2016 CODE No:	Description	Units	Qty	Rate	Amount
		FLOORING				
11	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
a)	11.20.2	Medium shade using 50% white cement 50% Grey cement.	Sqm	1130.00	878.60	992,818.00
		FINISHING				
12	13.6	20 mm cement plaster of mix :				
a)	13.6.2	1:6 (1 cement : 6 coarse sand)	Sqm	1410.00	232.85	328,318.50
		PAINTING				
13	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
a)	13.47.1	New work (Two or more coats applied @ 1.43 ltr/ 10 sum. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	Sqm	3030.00	96.80	293,304.00
14	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work	Sqm	3391.00	78.40	265,854.40
		Sub Total				**8,756,288.40**
		Add Cost Index 59.8%				**5,236,260.46**
		Total Schedule Items				**13,992,548.86**
		NON SCHEDULE ITEMS				
15	1	Supply and fixing of 6mm Multi wall poly carbonate aluminium sky lighting profile sheet etc. as per the directiof Engineer in charge	Sqm	1720.00	3900.00	6,708,000.00
16	2	Supplying and fixing the RCC Jally 20mm thick in between Pillars as per the design and direction of the Engineer in charge				
a	a	For Handrails 200 x 90 cm size at Bottom	Metre	480.00	2450.00	1,176,000.00
b	b	For Brackets 200 x 60 cm size at Top	Metre	600.00	1625.00	975,000.00
17	3	Providing Ornamental work in the Columns as per the design and direction of Engineer in charge	Each	300.00	1950.00	585,000.00
		Total for Non - Schedule Items				**6,708,000.00**
		Grand Total				**20,700,548.86**

Sl. No	DSR 2016 CODE No:	Description	Units	Qty	Rate	Amount
PART III : PROPOSED PATHWAY ALONG THE SIDES OF NATURAL STREAM						
ESTIMATE AS PER DSR 2016						
Sl. No	**DSR CODE No:**	**Description**	**Units**	**Qty**	**Rate**	**Amount**
A		**CIVIL WORKS**				
		EARTH WORKS				
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
a	2.6.1	All kinds of soil	Cum	740.00	125.95	93,203.00
		CONCRETE WORKS				
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
a)	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	Cum	150.00	4478.15	671,722.50
		ROAD WORK				
3	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size, design and shape, laid in required colour and pattern over and including 50mm thick compacted bed of course sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	1500.00	615.70	923,550.00
4	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	55.00	5012.65	275,695.75
		Sub Total				**1,964,171.25**
		Add Cost Index 59.8.00%				**1,174,574.41**
		Total Schedule Items				**3,138,745.66**