

15 -ാം കേരള നിയമസഭ

14 -ാം സമ്മേളനം

നക്ഷത്ര ചിഹ്നം ഇല്ലാത്ത ചോദ്യം നം. 2470

30-09-2025 - ൽ മറുപടിക്ക്

മുക്കിൽക്കട-ആനന്ദേശ്വരം റോഡ് റീ ടാറിംഗ്

ചോദ്യം		ഉത്തരം	
ശ്രീ. തിരുവഞ്ചൂർ രാധാകൃഷ്ണൻ		ശ്രീ. എം.ബി. രാജേഷ് (തദ്ദേശ സ്വയംഭരണ - എക്സൈസ് - പാർലമെന്ററികാരു വകുപ്പ് മന്ത്രി)	
(എ)	തിരുനന്തപുരം കോർപ്പറേഷന്റെ പരിധിയിലുള്ള മുക്കിൽക്കട-ആനന്ദേശ്വരം റോഡിന്റെ റീ ടാറിംഗ് പൂർത്തിയാക്കുമെന്ന് വ്യക്തമാക്കുമോ; ഇല്ലെങ്കിൽ കാരണം വ്യക്തമാക്കുമോ;	(എ)	പ്രവൃത്തി പൂർത്തീകരിച്ചിട്ടില്ല. വാട്ടർ അതോറിറ്റി, സിറ്റി ഗ്യാസ് ലൈൻ പൈപ്പുകളുടെ റീസ്റ്റോറേഷൻ പ്രവൃത്തി പൂർത്തിയാക്കുവാൻ കാലതാമസം നേരിട്ടതിനാൽ ടി റീസ്റ്റോറേഷൻ പ്രവൃത്തി നഗരസഭ ഏറ്റെടുത്ത് നടത്തുകയാണ് ഉണ്ടായത്.
(ബി)	പ്രസ്തുത റോഡിന്റെ റീ ടാറിംഗ് പ്രവൃത്തിക്ക് എത്ര രൂപയുടെ അന്തിമ അനുമാനമാണ് നൽകിയിട്ടുള്ളത്; പ്രസ്തുത പ്രവൃത്തിയുടെ എസ്റ്റിമേറ്റിന്റെ പകർപ്പ് ലഭ്യമാക്കുമോ;	(ബി)	2,98,10,000/- (രണ്ട് കോടി തൊണ്ണൂറ്റി എട്ട് ലക്ഷത്തി പതിനായിരം രൂപ മാത്രം) രൂപയുടെ അന്തിമ അനുമാനമാണ് നൽകിയിട്ടുള്ളത്. എസ്റ്റിമേറ്റിന്റെ പകർപ്പ് ഉള്ളടക്കം ചെയ്യുന്നു.
(സി)	പ്രസ്തുത പ്രവൃത്തിക്ക് കരാർ ലഭിച്ച കരാറുകാരന്റെ പേരും എത്ര തുകയ്ക്കാണ് കരാർ ലഭിച്ചതെന്നും നിലവിൽ എത്ര തുകയ്ക്കുള്ള ബില്ലുകൾ മാറിയിട്ടുണ്ടെന്നുമുള്ള വിവരം ലഭ്യമാക്കുമോ;	(സി)	2,51,97,044.84/- രൂപയ്ക്ക് ശ്രീ. സെൽവൻ.എൻ എന്ന വ്യക്തിക്കാണ് കരാർ ലഭിച്ചിട്ടുള്ളത്. നിലവിൽ ബില്ലുകൾ ഒന്നും കരാറുകാരന് മാറി നൽകിയിട്ടില്ല.
(ഡി)	ഈ പ്രവൃത്തി എന്നത്തേയ്ക്ക് പൂർത്തിയാക്കാൻ സാധിക്കുമെന്ന് വ്യക്തമാക്കുമോ?	(ഡി)	2025 നവംബർ മാസം അവസാനത്തോടെ പ്രവൃത്തി പൂർത്തീകരിക്കുന്നതാണ്.

സെക്ഷൻ ഓഫീസർ

2018

Cost Index (Place : Trivandrum,
Value : 135.59), GST : 18%

DETAILED ESTIMATE

REBUILD-MUKKIKADA -EDATHARA -CHENGOTTUKONAM ROAD RE-TARRING IN SREEKARYAM ZONAL-SERIAL NO. 24-General Civil Work

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
1	RETARING AND DRAIN						
1.001	3.15	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material with in all lifts and lead upto 1000 metres by Mechanical Means					
	To Be Executed Quantity						
	1 1 1 :- scarifying						
	CH0/410-0/160	1.000	50.000	3.500			175.000
	CH0/320-0/360	1.000	40.000	3.500			140.000
	CH0/390-0/420	1.000	30.000	3.500			105.000
	CH0/440-0/-60	1.000	20.000	3.500			70.000
	CH0/610-0/630	1.000	20.000	3.500			70.000
	CH1/010-1/040	1.000	30.000	3.500			105.000
	CH1/140-1/160	1.000	20.000	3.500			70.000
	CH1/890-1/950	1.000	60.000	3.500			210.000
	CH2/170-2/350	1.000	180.000	3.500			630.000
	CH2/600-2/620	1.000	20.000	3.500			70.000
	Total						1645.000
	Total To Be Executed Quantity in sqm						1645.000
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						1645.000
1.002	4.2.A.I	Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method					
	To Be Executed Quantity						
	1 2 1 :- GSB						
	pipe-line trench	2.000	2650.000	1.000	0.100		530.000
	CH0/110-0/130	1.000	20.000	5.500	0.100		11.000
	CH0/320-0/340	1.000	20.000	5.500	0.100		11.000
	CH0/390-0/410	1.000	20.000	5.500	0.100		11.000
	CH0/440-0/460	1.000	20.000	5.500	0.100		11.000
	CH0/610-0/830	1.000	220.000	5.500	0.100		121.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	CH0/440-0/460	1.000	20.000	5.500			110.000
	CH0/610-0/630	1.000	20.000	5.500			110.000
	CH1/010-1/040	1.000	30.000	5.500			165.000
	CH1/140-1/160	1.000	20.000	5.500			110.000
	CH1/890-1/950	1.000	60.000	5.500			330.000
	CH2/170-2/520	1.000	350.000	5.500			1925.000
	Total						7590.000
	Total To Be Executed Quantity in sqm						7590.000
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						7590.000
1.005	5.2.b						
	Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.						
	To Be Executed Quantity						
	1 5 1 :- TACK COAT						
	pipe line trench	2.000	2090.000	1.000			4180.000
	CH0/110-0/160	1.000	50.000	5.500			275.000
	CH0/320-0/360	1.000	40.000	5.500			220.000
	CH0/390-0/420	1.000	30.000	5.500			165.000
	CH0/440-0/460	1.000	20.000	5.500			110.000
	CH0/610-0/630	1.000	20.000	5.500			110.000
	CH1/010-1/040	1.000	30.000	5.500			165.000
	CH1/140-1/160	1.000	20.000	5.500			110.000
	CH1/890-1/950	1.000	60.000	5.500			330.000
	CH2/170-2/520	1.000	350.000	5.500			1925.000
	Total						7590.000
	Total To Be Executed Quantity in sqm						7590.000
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						7590.000
1.006	5.3.2.a						
	Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)						
	To Be Executed Quantity						
	1 6 1 :- BM						
		1.000	2650.000	5.500	0.040		583.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	by road ch0/120	1.000	3.000	3.700	0.040		0.444
	by road ch0/230	1.000	3.000	3.500	0.040		0.420
	by road ch0/270	1.000	3.000	4.000	0.040		0.480
	by road ch0/340	1.000	3.000	5.000	0.040		0.600
	by road ch0/380	1.000	3.000	3.000	0.040		0.360
	by road ch0/410	1.000	3.000	5.500	0.040		0.660
	by road ch0/500	1.000	3.000	5.000	0.040		0.600
	by road ch0/620	1.000	3.000	6.500	0.040		0.780
	by road ch0/640	1.000	3.000	4.200	0.040		0.504
	by road ch1/000	1.000	3.000	3.200	0.040		0.384
	by road ch1/120	1.000	3.000	4.000	0.040		0.480
	by road ch1/420	1.000	3.000	3.500	0.040		0.420
	by road ch1/560	1.000	3.000	3.800	0.040		0.456
	by road ch1/650	1.000	3.000	4.000	0.040		0.480
	by road ch1/870	1.000	3.000	4.200	0.040		0.504
	by road ch1/910	1.000	3.000	8.000	0.040		0.960
	by road ch2/040	1.000	3.000	4.000	0.040		0.480
	by road ch2/180	1.000	3.000	6.300	0.040		0.756
	Total						592.768
	Total To Be Executed Quantity in cum						592.768
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						592.768
1.007	5.6.2.a Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)						
	To Be Executed Quantity						
	1 7 1 :- BC						
		1.000	1800.000	5.500	0.030		297.000
	by road ch0/120	1.000	3.000	3.700	0.030		0.333
	by road ch0/230	1.000	3.000	3.500	0.030		0.315
	by road ch0/270	1.000	3.000	4.000	0.030		0.360
	by road ch0/340	1.000	3.000	5.000	0.030		0.450
	by road ch0/380	1.000	3.000	3.000	0.030		0.270
	by road ch0/410	1.000	3.000	5.500	0.030		0.495

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	by road ch0/500	1.000	3.000	5.000	0.030		0.450
	by road ch0/620	1.000	3.000	6.500	0.030		0.585
	by road ch0/640	1.000	3.000	4.200	0.030		0.378
	by road ch1/000	1.000	3.000	3.200	0.030		0.288
	by road ch1/120	1.000	3.000	4.000	0.030		0.360
	by road ch1/420	1.000	3.000	3.500	0.030		0.315
	by road ch1/560	1.000	3.000	3.800	0.030		0.342
	by road ch1/650	1.000	3.000	4.000	0.030		0.360
	by road ch1/870	1.000	3.000	4.200	0.030		0.378
	by road ch1/910	1.000	3.000	8.000	0.030		0.720
	by road ch2/040	1.000	3.000	4.000	0.030		0.360
	by road ch2/180	1.000	3.000	6.300	0.030		0.567
	Total						304.326
	Total To Be Executed Quantity in cum						304.326
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						304.326
1.008	5.2.a	Providing and applying tack coat with bitumen emulsion(RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.					
	To Be Executed Quantity						
	1 8 1 :-	RS					
	BEFORE BM	1.000	2650.000	5.500			14575.000
	DEDUCTION for granular area	-1.000	7590.000				7590.000
	AFTER BM	1.000	1800.000	5.500			9900.000
	by road ch0/120	2.000	3.000	3.700			22.200
	by road ch0/230	2.000	3.000	3.500			21.000
	by road ch0/270	2.000	3.000	4.000			24.000
	by road ch0/340	2.000	3.000	5.000			30.000
	by road ch0/380	2.000	3.000	3.000			18.000
	by road ch0/410	2.000	3.000	5.500			33.000
	by road ch0/500	2.000	3.000	5.000			30.000
	by road ch0/620	2.000	3.000	6.500			39.000
	by road ch0/640	2.000	3.000	4.200			25.200
	by road ch1/000	2.000	3.000	3.200			19.200
	by road ch1/120	2.000	3.000	4.000			24.000
	by road ch1/420	2.000	3.000	3.500			21.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	by road ch1/560	2.000	3.000	3.800			22.800
	by road ch1/650	2.000	3.000	4.000			24.000
	by road ch1/870	2.000	3.000	4.200			25.200
	by road ch1/910	2.000	3.000	8.000			48.000
	by road ch2/040	2.000	3.000	4.000			24.000
	by road ch2/180	2.000	3.000	6.300			37.800
	Total						17373.400
	Total To Be Executed Quantity in sqm						17373.400
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						17373.400
1.009	8.13	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads on Bituminous Surface @ 250 gms per sqm area, the thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform, and free from streaks and holes.					
	Total To Be Executed Quantity in sqm						0.000
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						0.000
1.010	8.35	Providing and fixing reflective road studs (Raised Pavement Marker) of 'category A' made out of ASA/HIPS/ABS moulded body with shanks and conforming to ASTM D 4280, strong enough to support a load of more than 13.635 T when tested in accordance with ASTM D 4280, reflective panel conforming to ASTM D 788, and reflectivity conforming to clause 804.4. including installation, drilling, fixing with adhesive etc. with 2 years warranty for the road stud as well as for in field performance as per clause 804.7.3 Road Markers/Road Stud with Lense Reflector :-					
	Total To Be Executed Quantity in no						0.000
	Total Executed Quantity in no						0.000
	Total Quantity in no						0.000
1.011	8.4.1	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminum sheeting, 2 mm thick/aluminum composite material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 90 cm equilateral triangle					
	Total To Be Executed Quantity in each						0.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total Executed Quantity in each						0.000
	Total Quantity in each						0.000
1 012	8.4.3						
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 60 cm circular						
	Total To Be Executed Quantity in each						0.000
	Total Executed Quantity in each						0.000
	Total Quantity in each						0.000
1 013	8.4.4						
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 80 mm x 60 mm rectangular						
	Total To Be Executed Quantity in each						0.000
	Total Executed Quantity in each						0.000
	Total Quantity in each						0.000
1 014	8.4.12						
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting fixed over aluminum sheeting, 2 mm thick/aluminum composite material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 50cmx 60 cm rectangular (Single chevron etc.)						
	Total To Be Executed Quantity in each						0.000
	Total Executed Quantity in each						0.000
	Total Quantity in each						0.000
1 015	55.10.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and erecting retro-reflectorised Object Hazard Marker 450mm x 900mm Providing and erecting retro-reflectorised Object Hazard Marker sign with 07 years warranty, manufactured as per IRC 67 USING Type IV ASTM D 4956-09 micro prismatic retro reflective sheeting fixed over aluminium sheeting, 2 mm thick / aluminium composite material sheeting 4 mm thick with suitable back support frame and supported on a mild steel angle iron post 75mmx75mmx6mm, firmly fixed 30cm above ground level by means of properly designed foundation with M 15 grade cement concrete 30cmx30x45cm, 45cm below ground level including painting all non-reflective faces with epoxy paint 2 coats over epoxy primer as per approved drawing and clause 801, 450mm x 900 mm						
	Total To Be Executed Quantity in each						0.000
	Total Executed Quantity in each						0.000
	Total Quantity in each						0.000
1.016	8.4.8						
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV' micro prismatic grade sheeting fixed over aluminium sheeting, 2 mm thick/ aluminium composite material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB conforming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 75 cm octagon						
	Total To Be Executed Quantity in each						0.000
	Total Executed Quantity in each						0.000
	Total Quantity in each						0.000
1.017	55.23						
	Supplying and laying interlocking tile 80mm or nearest size thickness, minimum strength M30 including providing a layer of 6mm aggregate for 5cm thickness, then laying interlock cobbles in lines and levels as per the directions of the departmental officers at site inclusive of all cost & conveyance charges etc. complete.						
	To Be Executed Quantity						
	1 17 1 :- INTERLOCK						
	interlock 0/420 to 0/620 L	1.000	200.000	1.000			200.000
	interlock 1/160 to 1/300 L & R	2.000	140.000	1.200			336.000
	interlock 2/040 to 2/150 L	1.000	110.000	1.200			132.000
	60% REUSE	-1.000	89.000	8.300		0.6000 00	-443.220
	Total						224.780
	Total To Be Executed Quantity in sqm						224.780
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						224.780

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
1.018	2.3.1.A	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness In area of light jungle - By Manual Means					
	To Be Executed Quantity						
	1 18 1 :- CLEARING SITE						
		2.000	1500.000	0.500		0.000100	0.150
	Total						0.150
	Total To Be Executed Quantity in Hectare						0.150
	Total Executed Quantity in Hectare						0.000
	Total Quantity in Hectare						0.150
1 019	2.4.1.A	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres - Lime Concrete, cement concrete grade M-10 and below - By Manual Means					
	To Be Executed Quantity						
	1 19 1 :- dismantling existing drain						
	ch2/200-ch2/400 wall	2.000	200.000	0.250	0.800		80.000
	ch2/200-ch2/400 bed	1.000	200.000	0.900	0.100		18.000
	Total						98.000
	Total To Be Executed Quantity in cum						98.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						98.000
1.020	3.6	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m					
	To Be Executed Quantity						
	1 20 1 :- earth work						
	ch0/345-ch0/500(R) Drain	1.000	155.000	1.000	1.000		155.000
	ch2/040-ch2/200(R) Drain	1.000	160.000	1.000	1.000		160.000

SI No	Specification	No	Length	Width	Depth	Cf	Quant
	ch2/150- ch2/200(L) Drain	1.000	50.000	1.000	1.000		50.000
	ch2/200- ch2/400(R) Drain	1.000	200.000	1.000	0.400		80.000
	for irish drain ch0/100-0/340 R	1.000	240.000	0.600	0.100		14.400
	for irish drain ch0/100-ch0/260 L	1.000	160.000	1.000	0.100		16.000
	for irish drain ch0/340-ch0/420 L	1.000	80.000	1.000	0.100		8.000
	for irish drain ch0/500-ch1/160 R	1.000	660.000	1.000	0.100		66.000
	for irish drain ch0/620-ch1/160 L	1.000	540.000	1.000	0.100		54.000
	for irish drain ch1/600-ch1/910 R	2.000	310.000	0.800	0.100		49.600
	for irish drain ch2/200-ch2/650 L	1.000	450.000	0.600	0.100		27.000
	for irish drain ch2/400-ch2/650 R	1.000	250.000	0.600	0.100		15.000
	Trench	2.000	2650.000	1.000	0.300		1590.000
	Total						2285.000
	Total To Be Executed Quantity in cum						2285.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						2285.000
1.021	12.4 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.						
	To Be Executed Quantity						
	1 21 1 :- PCC						
	ch0/345- ch0/500(R) Drain	1.000	155.000	1.000	0.150		23.250
	ch2/045- ch2/200(R) Drain	1.000	155.000	1.000	0.150		23.250
	Cross drain pccCH2/040	1.000	5.000	1.000	0.150		0.750

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
	drain PCC Ch2/200- CH2/400(R) levelling	1.000	200.000	1.000	0.150		30.000
	ch2/150- ch2/200(L) Drain	1.000	50.000	1.000	0.150		7.500
	Total						84.750
	Total To Be Executed Quantity in cum						84.750
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						84.750
1.022	OD142375/2023-2024						
	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203
II. P.C.C grade M 15
(i) Nominal mix (1:2.5:5)						
	To Be Executed Quantity						
	1 22 1 :- DRAIN WALL						
	ch0/345- ch0/500(R) Drain	2.000	155.000	0.250	0.800		62.000
	ch2/045- ch2/200(R) Drain	2.000	155.000	0.250	0.800		62.000
	drain Ch2/200- CH2/400(R)	2.000	200.000	0.250	0.800		80.000
	ch2/150- ch2/200(L) Drain	2.000	50.000	0.250	0.800		20.000
	Total						224.000
	Total To Be Executed Quantity in cum						224.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						224.000
1.023	OD157835/2023-2024						
	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications
PCC Grade M20 (Without formwork)
using 20mm/10mm aggregate						
	To Be Executed Quantity						
	1 23 1 :- PCC M20						
	ch0/345- ch0/500(R) Drain	1.000	155.000	0.500	0.050		3.875
	ch2/045- ch2/200(R) Drain	1.000	155.000	0.500	0.050		3.875
	ch2/150- ch2/200(L) Drain	1.000	50.000	0.500	0.050		1.250
	ch2/200-2/400 R Drain	1.000	200.000	0.500	0.050		5.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	for irish drain ch0/100-0/340 R	1.000	240.000	1.000	(0.15+0.1 0)/2		30.000
	for irish drain ch0/100-ch0/260 L	1.000	160.000	1.000	(0.15+0.1 0)/2		20.000
	for irish drain ch0/340-ch0/420 L	1.000	80.000	1.000	(0.15+0.1 0)/2		10.000
	for irish drain ch0/500-ch1/160 R	1.000	660.000	1.000	(0.15+0.1 0)/2		82.500
	for irish drain ch0/620-ch1/160 L	1.000	540.000	1.000	(0.15+0.1 0)/2		67.500
	for irish drain ch1/600-ch1/910 R & L	2.000	310.000	1.000	(0.15+0.1 0)/2		77.500
	for irish drain ch2/200-ch2/650 L	1.000	450.000	1.000	(0.15+0.1 0)/2		56.250
	for irish drain ch2/400-ch2/650 L	1.000	250.000	1.000	(0.15+0.1 0)/2		31.250
	kerb for interlock 0/420 to 0/620 L	2.000	200.000	0.200	0.100		8.000
	kerb for interlock 1/160 to 1/3000 L & R	2*2.00 0	140.000	0.200	0.100		11.200
	kerb for interlock 2/040 to 2/150 L	2.000	110.000	0.200	0.100		4.400
	Berm concrete 0/620 to 1/160 L & R	2.000	540.000	0.900	(0.15+0.1 0)/2		121.500
	Berm concrete 1/910 to 2/040 L & R	2.000	130.000	1.000	(0.15+0.1 0)/2		32.500
	Total						566.600
	Total To Be Executed Quantity in cum						566.600
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						566.600
1.024	12.8.1.C.1						
	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications RCC Grade M20 - Using Concrete Mixer						
	To Be Executed Quantity						
	1 24 1 :- cover slab						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	ch0/345- ch0/500(R) Drain	1.000	155.000	1.000	0.150		23.250
	ch2/045- ch2/200(R) Drain	1.000	155.000	1.000	0.150		23.250
	drain Ch2/200- CH2/400(R)	1.000	200.000	1.000	0.150		30.000
	ch2/150- ch2/200(L) Drain	1.000	50.000	1.000	0.150		7.500
	ch0/260- ch0/340(L) Existing Drain	1.000	80.000	1.000	0.150		12.000
	Total						96.000
	Total To Be Executed Quantity in cum						96.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						96.000
1.025	3.13.1.A Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for road work. Ordinary soil - Manual Means - (Depth upto 3 M)						
	Total To Be Executed Quantity in cum						0.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						0.000
1.026	OD142006/2023-2024 DR Packing under foundation-Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc						
	Total To Be Executed Quantity in cum						0.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						0.000
1.027	12.8.E.1.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. RCC Grade M25 - Using Concrete Mixer						
	Total To Be Executed Quantity in cum						0.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						0.000
1.028	12.40 Supply, Fitting and Placing un-coated HYSD bar Reinforcement in Foundation complete as per Drawing and Technical Specifications						
	Total To Be Executed Quantity in MT						0.000
	Total Executed Quantity in MT						0.000
	Total Quantity in MT						0.000

SI No	Specification	No	Length	Width	Depth	Cf	Quantity
1.029	13.5.F.P.1						
	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M25 - Using concrete Mixer - Height upto 5m						
	To Be Executed Quantity						
	1 29 1 :- RCC						
	Cross drain bed CH2/040	1.000	5.000	1.000	0.100		0.500
	Cross drain wall CH2/040	2.000	5.000	0.250	0.800		2.000
	Cross drain bed CH0/620	1.000	5.000	1.000	0.100		0.500
	Cross drain wall CH0/620	2.000	5.000	0.250	0.800		2.000
	Total						5.000
	Total To Be Executed Quantity in cum						5.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						5.000
1.030	13.6						
	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications						
	To Be Executed Quantity						
	1 30 1 :- reinforcement						
		1.000	5.000		100.000	0.001000	0.500
		1.000	96.000		100.000	0.001000	9.600
	Total						10.100
	Total To Be Executed Quantity in MT						10.100
	Total Executed Quantity in MT						0.000
	Total Quantity in MT						10.100
1.031	14.1.B.1						
	Furnishing and Placing Reinforced Cement Concrete Grade M25 Using Concrete Mixer in super-structure as per drawing and Technical Specification						
	Total To Be Executed Quantity in cum						0.000
	Total Executed Quantity in cum						0.000
	Total Quantity in cum						0.000
1.032	14.2						
	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications						
	Total To Be Executed Quantity in MT						0.000
	Total Executed Quantity in MT						0.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total Quantity in MT						0.000
1 033	OD142127/2023-2024						
	laying old cement concrete interlocking paver blocks of any design /shape laid in required line,level,curvature,colour and pattern over and including 50mm thick compacted bed of coarse sand ,filling the joints with fine sand etc.all completeas per the direction of Engineer-in -charge (old paver block shall be supplied by the department free of cost)						
	To Be Executed Quantity						
	1 33 1 :- laying old cc interlock						
	60 % of existing cc interlock	1.000	443.220				443.220
	Total						443.220
	Total To Be Executed Quantity in sqm						443.220
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						443.220
1 034	OD142168/2023-2024						
	taking out existing CC interlocking paver block / central verge ,including removal of rubbish etc, disposal of unservicable material to the dumping ground for which payment shall be made seperately and stacking of servicable material within 50meter lead as per direction of Engineer -in charge						
	To Be Executed Quantity						
	1 34 1 :- taking out CC interlocking						
	ch1/194-ch1/283	1.000	89.000	8.300			738.700
	Total						738.700
	Total To Be Executed Quantity in sqm						738.700
	Total Executed Quantity in sqm						0.000
	Total Quantity in sqm						738.700
1.035	OD142301/2023-2024						
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes Details of cost for a truss of span 8 metre Weight = 119 kg						
	Total To Be Executed Quantity in kg						0.000
	Total Executed Quantity in kg						0.000
	Total Quantity in kg						0.000


SUMA. S
Assistant Executive Engineer
LSGD (LID & EW)
Municipal Corporation
Thiruvananthapuram


SUJITH S
PEN 629243
Assistant Engineer
LID & EW
Municipal Corporation
Thiruvananthapuram

ABSTRACT ESTIMATE**REBUILD-MUKKIKADA -EDATHARA -CHENGOTTUKONAM ROAD RE-TARRING IN
SREEKARYAM ZONAL-SERIAL NO. 24-General Civil Work**

SI No	Specification	Quantity	Rate	Amount
1	RETARING AND DRAIN			
1 001	3.15 Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material with in all lifts and lead upto 1000 metres by Mechanical Means			
	Net Total	1645.0 sqm	@5.60/sqm	9212.00
1 002	4.2.A.1 Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method			
	Total Upto 125%	822.584 cum	@3149.44/cum	2590678.95
	Total (Excess Quantity)	218.916 cum	@3146.29/cum	688773.22
1 003	4.12 Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.			
	Total Upto 125%	455.805 cum	@3241.37/cum	1477432.65
	Total (Excess Quantity)	585.695 cum	@3238.13/cum	1896556.55
1.004	5.1.a Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.			
	Total Upto 125%	3038.7 sqm	@61.52/sqm	186940.82
	Total (Excess Quantity)	4551.300 sqm	@61.46/sqm	279722.90
1.005	5.2.b Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.			
	Total Upto 125%	3038.7 sqm	@14.03/sqm	42632.96
	Total (Excess Quantity)	4551.300 sqm	@14.02/sqm	63809.23
1.006	5.3.2.a			

Sl No	Specification	Quantity	Rate	Amount
	Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)			
	Net Total	592.768 cum	@8316.59/cum	4929808.42
.007	5.6.2.a			
	Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)			
	Net Total	304.326 cum	@12725.56/cum	3872718.77
.008	5.2.a			
	Providing and applying tack coat with bitumen emulsion(RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.			
	Net Total	17373.4 sqm	@11.57/sqm	201010.24
.009	8.13			
	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads on Bituminous Surface @ 250 gms per sqm area, the thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform, and free from streaks and holes.			
	Net Total	0.0 sqm	@503.83/sqm	0.00
.010	8.35			
	Providing and fixing reflective road studs (Raised Pavement Marker) of ' category A' made out of ASA/HIPS/ABS moulded body with shanks and conforming to ASTM D 4280, strong enough to support a load of more than 13.635 T when tested in accordance with ASTM D 4280, reflective panel confirming to ASTM D 788, and reflectivity conforming to clause 804.4. including installation, drilling, fixing with adhesive etc. with 2 years warranty for the road stud as well as for in field performance as per clause 804.7.3 Road Markers/Road Stud with Lense Reflector :-			
	Net Total	0.0 no	@199.59/no	0.00
1.011	8.4.1			
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminum sheeting, 2 mm thick/aluminum composite material sheeting 4 mm thick with suitable, back supporting frame of MS. angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy			

Sl No	Specification	Quantity	Rate	Amount
	painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 90 cm equilateral triangle			
	Net Total	0.0 each	@4602.72/each	0.00
1.012	8.4.3			
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 60 cm circular			
	Net Total	0.0 each	@4313.72/each	0.00
1.013	8.4.4			
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 80 mm x 60 mm rectangular			
	Net Total	0.0 each	@5163.48/each	0.00
1.014	8.4.12			
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting fixed over aluminum sheeting, 2 mm thick/aluminum composite material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 50cmx 60 cm rectangular (Single chevron etc.)			
	Net Total	0.0 each	@4387.04/each	0.00
1.015	55.10.2			
	Providing and erecting retro-reflectorised Object Hazard Marker 450mm x 900mm Providing and erecting retro-reflectorised Object Hazard Marker sign with 07 years warranty, manufactured as per IRC 67 USING Type IV ASTM D 4956-09 micro prismatic retro reflective sheeting fixed over aluminium sheetig, 2 mm thick / aluminium composit material sheeting 4 mm thick with suitable back support frame and supported on a mild steel angle iron post 75mmx75mmx6mm, firmly fixed 30cm above ground level by means of properly designed foundation with M 15 grade			

Sl No	Specification	Quantity	Rate	Amount
	cement concrete 30cmx30x45cm, 45cm below ground level including painting all non-reflective faces with epoxy paint 2 coats over epoxy primer as per approved drawing and clause 801. 450mm x 900 mm			
	Net Total	0.0 each	@3420.38/each	0.00
1 016	8.4.8			
	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB conforming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc. 75 cm octagon			
	Net Total	0.0 each	@5103.09/each	0.00
1.017	55.23			
	Supplying and laying interlocking tile 80mm or nearest size thickness, minimum strength M30 including providing a layer of 6mm aggregate for 5cm thickness, then laying interlock cobbles in lines and levels as per the directions of the departmental officers at site inclusive of all cost & conveyance charges etc. complete.			
	Net Total	224.78 sqm	@964.42/sqm	216782.33
1.018	2.3.1.A			
	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness In area of light jungle - By Manual Means			
	Net Total	0.15 Hectare	@143836.78/Hectare	21575.52
1.019	2.4.1.A			
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres - Lime Concrete, cement concrete grade M-10 and below - By Manual Means			
	Total Upto 125%	21.5 cum	@860.17/cum	18493.66
	Total (Excess Quantity)	76.500 cum	@859.31/cum	65737.22
1.020	3.6			
	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m			

SI No	Specification	Quantity	Rate	Amount
	Total Upto 125%	1075.313 cum	@48.56/cum	52217.20
	Total (Excess Quantity)	1209.688 cum	@48.51/cum	58681.96
1.021	12.4 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.			
	Net Total	84.75 cum	@6451.17/cum	546736.66
1.022	OD142375/2023-2024 Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203
II. P.C.C grade M 15
(i) Nominal mix (1:2.5:5)			
	Net Total	224.0 cum	@7540.39/cum	1689047.36
1.023	OD157835/2023-2024 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications
PCC Grade M20 (Without formwork)
using 20mm/10mm aggregate			
	Total Upto 125%	182.486 cum	@7754.04/cum	1415003.74
	Total (Excess Quantity)	384.114 cum	@7746.29/cum	2975458.44
1.024	12.8.1.C.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications RCC Grade M20 - Using Concrete Mixer			
	Net Total	96.0 cum	@8092.80/cum	776908.80
1.025	3.13.1.A Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for road work. Ordinary soil - Manual Means - (Depth upto 3 M)			
	Net Total	0.0 cum	@764.77/cum	0.00
1.026	OD142006/2023-2024 DR Packing under foundation-Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc			
	Net Total	0.0 cum	@2715.30/cum	0.00
1.027	12.8.E.1.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. RCC Grade M25 - Using Concrete Mixer			
	Net Total	0.0 cum	@8553.02/cum	0.00
1.028	12.40			

SI No	Specification	Quantity	Rate	Amount
	Supply, Fitting and Placing un- coated HYSD bar Reinforcement in Foundation complete as per Drawing and Technical Specifications			
	Net Total	0.0 MT	@88174.81/MT	0.00
1 029	13.5.F.P.1			
	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M25 - Using concrete Mixer - Height upto 5m			
	Net Total	5.0 cum	@9068.26/cum	45341.30
1 030	13.6			
	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications			
	Total Upto 125%	3.789 MT	@88571.82/MT	335598.63
	Total (Excess Quantity)	6.311 MT	@88483.25/MT	558417.79
1 031	14.1.B.1			
	Furnishing and Placing Reinforced Cement Concrete Grade M25 Using Concrete Mixer in super-structure as per drawing and Technical Specification			
	Net Total	0.0 cum	@8210.86/cum	0.00
1 032	14.2			
	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications			
	Net Total	0.0 MT	@91408.30/MT	0.00
1 033	OD142127/2023-2024			
	laying old cement concrete interlocking paver blocks of any design /shape laid in required line,level,curvature,colour and pattern over and including 50mm thick compacted bed of coarse sand ,filling the joints with fine sand etc.all complete as per the direction of Engineer-in -charge (old paver block shall be supplied by the department free of cost)			
	Net Total	443.22 sqm	@193.32/sqm	85683.29
1 034	OD142168/2023-2024			
	taking out existing CC interlocking paver block / central verge ,including removal of rubbish etc, disposal of unservicable material to the dumping ground for which payment shall be made seperately and stacking of servicable material within 50meter lead as per direction of Engineer -in charge			
	Net Total	738.7 sqm	@115.32/sqm	85186.88
1 035	OD142301/2023-2024			
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes Details of cost for a truss of span 8 metre Weight = 119 kg			
	Net Total	0.0 kg	@175.49/kg	0.00

SI No	Specification	Quantity	Rate	Amount
	Heading Total(Rs)			25186167.49
	Total Estimation PAC			25186167.49
SI No	Description	Percentage/LS	Amount	
2	Lumsum Heading			
2.001	LS provision for part TS			88000.00
	Total Lumsum Amount			88000.00
3	Extra Charges			
2.001	Provision for GST	25186167.49	18.00%	4533510.15
	Grand Total			29807677.64
	Round off			2322.36
	Rounded Total(Rs)			29810000.00
	Rupees Two Crore Ninety Eight Lakh Ten Thousand			


 SUMA. S
 Assistant Executive Engineer
 LSGD (LID & EW)
 Municipal Corporation
 Thiruvananthapuram


 SUJITH S
 PEN 629243
 Assistant Engineer
 LID & EW
 Municipal Corporation
 Thiruvananthapuram