പതിനാലാം കേരള നിയമസഭ പതിനൊന്നാം സമ്മേളനം

നക്ഷത്രചിഹ്നമിടാത്ത ചോദൂം നം. 1811

08.06.2018-ൽ മറുപടിയ്ക്

പാമ്പായിമൂല ഇന്ദിരാഗാന്ധി റോഡ് ജംഗ്ഷൻ നവീകരണം

മോദും

ഉത്തരം

ശ്രീ.ജോൺ ഫെർണാണ്ടസ്

ഡോ.കെ.ടി.ജലീൽ തദ്ദേശസായംഭരണവും നൂനപക്ഷക്ഷേമവും വഖഫ് ഹജ്ജ് തീർത്ഥാടനവും വകപ്പ് മന്ത്രി

(എ) 2017-2018 സാമ്പത്തിക വർഷത്തെ പദ്ധതിയിൽ അമ്മത് ഉൾപ്പെടുത്തി അനുവദിച്ച 30 ലക്ഷം രൂപയും ഒരു കോടി രൂപയും വിനിയോഗിച്ചുള്ള കൊച്ചി നഗര സഭയുടെ 15-≎ಾ വാർഡിൽപ്പെട്ട^{്ര}(എ) പാമ്പായിമുല ഇന്ദിരാഗാന്ധി റോഡ് ജംഗ്ഷൻ നവീകരണ പ്രവർത്തനങ്ങൾ ^(ബി) സംബന്ധിച്ച വിശദമായ പ്രൊജക്ക് റിപ്പോർട്ട് ആരാണ് തയ്യാറാക്കിയിട്ടുള്ളതെന്ന് വ്യക്തമാക്കുമോ;

കൊച്ചി നഗരസഭയിലെ 15 - ാം ഡിവിഷനിൽ ഉൾപ്പെടുന്ന പാമ്പായിമുല ഇന്ദിരാഗാന്ധി റോഡ് നവീകരണ ജംഗ്ഷൻ പ്രവർത്തനങ്ങൾക്കായി വിശദമായ പ്രോജക് റിപ്പോർട്ട് തയ്യാറാക്കിയിട്ടുള്ളത് കൊച്ചി റെയിൽ ലിമിറ്റഡ് ആണ്. പ്രോജക് റിപ്പോർട്ടിന്റെ. പകർപ്പ് അനുബന്ധമായി ചേർക്കുന്നു.

(ബി) ഇതിന്റെ ഒരു പകർപ്പ് ലഭ്യമാക്കാമോ;

(സി) നവീകരണ പ്രവർത്തനങ്ങൾ (സി എന്നത്തേക്ക് ആരംഭിക്കാൻ സാധിക്കമെന്ന് വൃക്തമാക്കാമോ;

പ്രവർത്തനങ്ങൾ (സി) 2018 ആഗസ്റ്റ് മാസം 31 - ാം തീയതിയ്ക്ക് ആരംഭിക്കാൻ മുമ്പായി ടെന്റർ നടപടികൾ പൂർത്തിയാക്കി ക്കാമോ; വർക്ക് ആരംഭിക്കുവാൻ കഴിയുന്നതാണ്.

(ഡി) എന്തെല്ലാം നടപടി ക്രമങ്ങളാണ് (ഡി) പൂർത്തീകരിക്കേണ്ടതായിട്ടുള്ളത്?

പദ്ധതിയിൽ അമ്ലത് പ്രസ്തത പ്രോജക്ലിന് ഭരണാന്മമതി ലഭിച്ചിട്ടുണ്ട്. സാങ്കേതികാനുമതി നൽകൽ, ടെന്റർ നടപടി, വർക്ക് അവാർഡ് ചെയ്യൽ തുടങ്ങിയ കാര്യങ്ങൾ നടത്തുന്നതിനായി കൊച്ചി മെടോ റെയിൽ ലിമിറ്റഡുമായി കൊച്ചി കോർപ്പറേഷനും അമ<mark>്</mark>മത് മിഷൻ ഡയറക്ടറ്റം ത്രികക്ഷി കരാർ വച്ചിട്ടുണ്ട്. മ്മടർ നടപടികൾ പൂർത്തികരിക്കേണ്ടത് കെ.എം.ആർ.എൽ അണ്.

സെക്ഷൻ ഓഫീസർ

		COST ESTIMATE OF AMRUT PROJECT FOR WALKWA	Y DEVELOP	MENT AT	PAMBAYIM	OOLA, KOCHI	
_	,	DICL OF QUANTITIES			γ	,	
	DSR Item tode	Description of wark	No. or Qty.	Volt	DSR Rate	Rata +Cost Index@48.05%	Amount
	↓	SCHEDULE 1- CIVIL WORK FOR WALKWAY-DSR 2016			_	1 -	·
	╄	STE CLEARANCE & DISMANTLING WORKS				1	
1	1	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.					
	∔		2880.00	Sqm	3.65	5.33	15355.93
2	15.2	Demosishing comment concrete manually/ by mechanical means including disposal of material including all leads and all lifts swoked up to contractors dumping yards			<u> </u>		
2.1	15.21	Nominal concrete 1:3:6 or richer mix (Vc equivalent design mix)	51	Cum	997.05	1456,49	74281.02
2.2	15.2.2	Morninal concrete 1:4:8 or leaner mix (Vc equivalent design max)	2	Cum	615,15	898.61	1797.22
3	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - inchange.	60	Cum	1454.55	2124.81	127488.40
4_	15.6	Disposal of building rubbish / maibe / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	111	Cum	120.55	176.10	19547.04
5	15.9	Densoushing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material and disposal including all leads and all lifts involved up to contractors dumping yards					
	15.9.2	In coment morter	1.5	Cum	1005.7	1469.13	2203.69
6	16.82	Taking out existing kerb stones of all types from footpath/ cantral varge including removal of mortar atc., disposal of usserviceable material to the duraping ground, for which payment shall be made separately and stacking of serviceable material and disposal including all leads and all lifts involved up- to contractors dumping yards	540, 00	žm.	16.05	23.45	12660.75
,		Taking out existing CC interflocking paver blocks from footpath! central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per circuition of Engineer-ty-					
		BARRICADING WORKS	780.00	\$qm	55.95	78.81	61471.92

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BRLOF QUANTITIES									
S.Ne.	DSR tem code	Description of work	Na. or Qty.	Unit	DSR Rate	Rate +Cost index@46.08%	Amount		
				T					
		Providing and erecting 1.2 metra high temporary barricading at			1	!!			
	İ	site as per drawing/ direction of Engineer-in-Charge which]	i			
	ĺ	includes writing and painting, arrangement for traffic diversion				l i			
	1	such as traffic signals during construction at site for day and							
:	ł	night, glow lumps, reflective signs, marking, flags, caution tape as				<u> </u>			
:	į	directed by the Engineer-In- Charge. The barricading provided			i	ļ			
	1	shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times			ł				
į	İ	as required during the execution of the entire work till its							
		completion. Rate include its maintenance for damages, painting,		ļ					
	l	all incidentals, labour materials, equipments and works required				· •			
	İ	to execute the Job. The barricading shall not be removed without							
8	36.81	prior approval of Engineer-In-Charge,	110.90	Rm	946.23	1382.25	152047.81		
	•	hors: - One time payment their be made for providing berricading from shall remain to be the property of the		}					
	[contractor on completion of the work).							
	 -	EARTH WORK EXCAVATION	···	 -					
		Earth work in excavation by mechanical means (Hydraulic		 					
		excavator) / manual means in foundation trenches or drains (not							
		exceeding 1.5 m in width or 10 som on plant, including dressing							
		of sides and ramming of bottoms, aft upto 1.5 m, including			i				
	Ì	getting out the excavated soil and disposal of surplus excavated		ŀ		!			
1		soil as directed, within a lead of 50 mt.		ŀ					
9	2.8				-				
	2.8.1	All kinds of soil,	960.00	Cum	166.4	243.09	233354,04		
				i					
ı		Filling available excavated earth (excluding rock) in trenches,			' '		5		
		plinth, sides of foundations etc. In layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and			}				
10	2.25	watering, lead up to 50 m and 41t upto 1.5 m.	288.00	Cum	125.75	183.70	52904.33		
				- 					
		Random rubble masonry with hard stone in foundation and							
	7.1	plinth including					-		
- 1	***	levelling up with cement concrete 1:6:12 (1 cement : 5 coarse		ĺ		i			
!		sand : 12 graded		ŀ		i i			
11	7.1.1	stone aggregate 20 mm nominal ske) upto plinth level with : Cement morter 1:6 (1 cement : 6 course sand)	1.50	Cum	3965.85	5793.31	B689.97		
12	F-4-1	P.C.C	1.30	Cum	3703.03	5/79.31	8023.37		
_		Providing and laying in position current concrete of specified							
- !		grade excluding the cost of centering and shuttering - All work up			•	1			
i	4.1	to plinth level :							
		1:4:8 1 Cement : 4 coerse send : 8 graded stone aggregate 40							
12.1	414	mm nominal size)	164.00	Cum	4478.15	6S41.68	1072835.77		
		BOLLARDS							
- 1	4.9	Precasting and placing in position 125 mm dia Bollards 600 mm							
i		high of required shape, including providing M.S. Pipe Sieeva 50			ľ		•		
- 1		mm die 300 mm long in the Bollard and M.S. Pipes 40 mm die			ĺ				
- 1		and 450 mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150 mm in cement concrete 2:3:6 (1							
- [Coment : 3 coarse sand : 6 graded stone aggregate 20 mm]			
		nominal size), including necessary excevation of size 250 x 250 x			1				
ĺ		450 mm deep for the same in bitumes/concrete pavement at			1				
		specified spacing.	136.60	.	E1F OF	755 46	90619.27		
դ, ի		A CONTRACTOR CONTRACTOR	120.00	No	516.95	755.16	30013.1/		
13				ı	l				
13	8.7	REINFORCED CEMENT CONCRETE							
13	5.1	Providing and laying in position specified grade of reinforced							
13	5.1	Providing and laying in position specified grade of reinforced cement concrete,							
13	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and							
	5.1	Providing and laying in position specified grade of reinforced cement concrete,							
13	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work							

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		COST ESTIMATE OF AMRUT PROJECT FOR WALKW	AY DEVELO	PMENT AT	F PAMBAYIN	IOOLA,KOCHI	
	- I BE	BILL OF QUANTITIES				Τ	T
,	D. DS					1	
$ldsymbol{ld}}}}}}}}$	cod	- and delight at Mork	No. or Qty.	Unit	DER Rete	Rate +Cost	
		Steel reinforcement for R.C.C. work including straightening,	—- 	_ Onic	PON WHILE	Index@48.68%	Amount
	5.2	and the same of th				ļ	1
15	┿-	upto plinth level.				<u>L</u>	
	5.22	6 Thermo-Mechanically Treated bars of grade Fe-500D or more.					Ţ
		BUS STOP STRUCTURE	9120.00	Kg	55.6	82.68	754053.27
	_		╅	+-	+	 	
ĺ	1	Structural steel work riveted, boiled or welded in built up					
	10.2						ļ
16	j	framed work, including cutting, housing, fixing in position and applying a priming cost of approved steel primer all complete.		1	l	į.	
	 	Steel work welded in built up sections/framed work, including	1350.00	Kg_	67.7	98.90	133509.82
ii.	-	cutting, holisting.		Ī	1		
	10.2	i a commentation in the comment of t				}	
	ŀ	primer using structural	j	ļ	•	1	
17	⊹ —	steel etc. as required.	<u> </u>		<u> </u>		
	10.25	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	ļ				l
	+	Providing and fixing hand rait of approved size by welding etc. to	360.00	Xg Xg	85.98	125.60	45215.85
		steel ladder railing.					
	20.26	balcony railing, staircase railing and similar works, including		1	l i		
	1	applying priming coat			'		
18	10.35	of approved steel primer.	 	⊥	<u>L</u>		
	414.25	1 M.S. tube	20	Kgs.	92	134.39	2687.87
	 	STAINLESS STEEL SEATS IN OUS STOPS	 	-			
		Providing and fixing stainless steel (Grade 304) in fing made of Hollow tubes, channels, plates etc., including welding, grinding,		1			
	1	buffing, polithing and making curvature (wherever required) and	1] [
	1	fitting the same with necessary stainiess steel nuts and boits	1	1			
	1	corruplate, i/c fixing the railing with necessary accessories &]	/	ĺ	
	10.28	stainless steel dash fasteners , stainless steel bolts etc., of] [
	1	required size, on the top of the floor or the side of walst slab with suitable arrangement as per approval of Engineer-in-charge, (for	1		i I	ļ	
	1	payment purpose only weight of stainless steel members shall be		1			
	ı	considered excluding fixing accessories such as nuts, bolts,		1			
19		fasteness etc.)					
		ROOFING	700.00	Kg	A72.4	690.08	483057,34
		Providing corrugated G.S. sheet roofing including vertical /		 			
		curved surface fixed with polymer coated i or t. hooks, boits and		1		- 1	
		nuts 8 mm diameter with bitumen	•			- 1	
	1	and G.J. (Impet washers or with G.J. Impet washers filled with	1			- 1	
	12,1	white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to	İ	ŀ		ļ	
		any pitch in horizontal vertical or curved surfaces), excluding the		Ì	}		
	ļ	cost of purios, rafters and trusses and including cutting to size	İ				
_	Ì	and shape wherever required.	ĺ	1		ļ	
20	12.1.1	1.00 mm thick with vine cost		L		<u> </u>	
		1.00 mm thick with zinc coating not less than 275 gm/m ² Finishing walls with Acrylic Smooth exterior paint of required	49.00	Mili	957.95	1399.37	68569.29
21		shade :	,			ł	
- }	13.46,1	New work (Two or more cost applied @ 1.67 ks/10 sqm over and					
- 1			1				
+		including priming coat of exterior primer applied @ 2.20 kg/10					
- 1		<u>(4qm)</u>	1440	4QIN_	96.05	140.31	202046.17
-		sqm) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro	1440	4QIN	96.05	140.31	202046.17
	•	sam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated natro reflective sheeting conforming to type 47 of ASTM-D 4856-01 in	1440	\$QITI	36.05	140.31	202046.17
	-	sam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type -tV of ASTM-D 4956-01 in blue and silver white or other colour combination including	1440	4QIM	96.05	140.31	202046.17
	-	sqm) Thada up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type -4V of ASTM-D 4956-01 in bitus and silver white or other colour combination including subject matter, message (bi-lingual), symbols and barders etc. as	1440	4QIN	96.05	140.31	202046.17
		sqm) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type -4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing	1440	4QIN	96.05	140,31	202046.17
		sam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4t/ of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and barders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure	1440	4QIN	36.05	140.31	202046.17
		sam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same	1440	4QIN	96.05	140.31	202046.17
	16 54	sam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type -tV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle from of size 25e2583 mm alone with	1440	4QIN	36.05	140.31	202046.17
	15.50	isam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and barders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with autitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25e2583 mm along with their resistingly measures, mounted and fixed with 2 Nos. M.S.	1440	. €QITI_	96.05	140.31	202046.17
	15.50	isam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and barders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with autiable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x35 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee	1440	£QIN_	96.05	140.31	202046.17
	15.59	sam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in bitre and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with autitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25e25x3 mm along with theft resisting; measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x5 mm waided with base plate of size	1440	4Qm	96.05	140.31	202046.17
	15.50	sam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class - 2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets £ 20 cm c/c to back support frame of M.S. angle iron of size 25e25x3 mm along with their resistant messures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm wetded with base plate of size 100x100x5 mm at the bottom end and including makingholes in	1440	4Qm	96.05	140.31	202046.17
	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets £ 20 cm c/c to back support frame of M.S. angle iron of size 15e:258 mm along with theft resisting, measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tea section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in phes, engles flats, providing & fixing M.S. message plate of	1440	é qin	96.05	140.31	202046.17
	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and after white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with autitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle from of size 352533 mm along with their resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35335x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm wested with base plate of size 100x100x5 mm at the bottom end and including makingholes in piphes, angles if ats, providing & fixing M.S. message piate of synthetic snamel paint of required shade and of approved brand synthetic snamel paint of required shade and of approved brand	1440	4 Qm	36.05	140.31	202046.17
	15.59	rande up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhes/we backing which shall be activated by applying heat and pressure conforming to class - 2 of ASTM-D-4956-01 and fixing the same with auitable sized aluminium alloy thests @ 20 cm c/c to back support frame of M.S. angle from of size 2525/3 mm along with their resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35235/5 mm to a vertical post made up to M.S. Tee section ISMT 50250x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in phes, engles faits, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priving coat of the chromate yellow primer	1440	s qm	36.05	140.31	202046.17
2	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with autible sized aluminium alloy thets £120 cm c/c to back support frame of M.S. angle iron of size 15e:25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tea section ISMT 50x50x6 mm wetded with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, angles thats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic aramel paint of required shade and of approved brand & meanufacture over priming coat of the chromate yellow primer vertical MS-Tee support to be painted in black and white	1440	s qm	36.05	140.31	202046.17
	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle fron of size 25e:2583 mm along with their resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 95x35x5mm to a vertical post made up to M.S. Tee rection ISMT 50x50x6 mm wasted with base plate of size 100x100x5 mm at the bottom end and including makingoles in phes, engles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over prinning coat of the chromate yellow primer vertical MS-Tee support to be painted in black and white colours). Backside of shuminium sheet to be painted with two or	1440	4QI II	96.05	140.31	202046.17
	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 47 of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and barders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with a untable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25e.25e.3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, engles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required size, and white work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & meanufacture over prixing coat of the chromate yellow primer (vertical MS-Tee support to be painted with two or more coats of synthetic enamel paint of required shade and white two or more coats of synthetic enamel paint of required shade and white two or more coats of synthetic enamel paint of required shade and whether the painted with two or more coats of synthetic enamel paint of the painted with two or Manufacture over prixing coat of the chromate yellow primer (vertical MS-Tee support to be painted in black and white					
	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covared with high, intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4955-01 in blue and after white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4935-01 and fixing the same with autitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle from of size 35253 mm along with their resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35335x5mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm wested with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, angles if ats, providing & fixing M.S. message plate of synthetic snamel paint of required shade and of approved brand & manufacture over priming coat of the chromate yellow primer vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or wards not provided or aluminium sheet to be painted with two or wards not provided and plant of the colours). Backride of aluminium sheet to be painted with two or wards not provided and plant of the provided primer vertical MS-Tee support to be painted in black and white	1440	4qm	96.05	6991.90	202046.17
	15.50	isam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-D1 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted by applying heat and pressure conforming to class -2 of ASTM-D-4956-D1 and fixing the same with suitable sized aluminium alloy rivets £ 20 cm c/c to back support frame of M.S. angle iron of size 25e/25% mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tea section ISMT 50x50x6 mm welded with base plate of size section ISMT 50x50x6 mm welded with base plate of size of control of the size and and including makingholes in phes, engles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & meanufacture over prinning coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or wall and story/ Regulatory sign boards of 900 mm diametre with support length of 9750 mm *VAVER FOR WALKWAY* *Troviding and laying 60mm thick factory made cereent concrete					
	15.59	isam) pof 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 47 of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and barders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the zame with a untable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25e25x3 mm along with their resistant measures, mounted and fixed with 20ss. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee pection ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, engles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over prixing coat of the chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 9750 mm AAVER FOR WALKWAY Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade enade by block making					
	15.59	isam) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 57:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with autiable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle into of size 352533 mm along with their resistant measures, mounted and fixed with 2 Nos. M.S. negles of size 353535mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in piphes, engles flats, providing & fixing M.S. message plate of synthetic enamel paint of required shade and of approved brand & meanufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or Wandardstory Regulatory sign boards of 500 mm diametre with support length of 3750 mm AAVER FOR WALKWAY Providing and laying 60mm thick factory made cement concrete nacrolocking paver block of M.30 grade enade by block making nachline with strong vibratory compaction, of approved size.					
	15.59	isagm) made up of 2 mm thick aluminium sheet, face to be fully covered with high. Intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-D1 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-D1 and fixing the same with suitable sized aluminium alloy their 20 cm c/c to back support frame of M.S. angle icon of size 15e:25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT-50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of size chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or Mandatory/ Regulatory sign boards of 900 mm diametre with hupport length of 7500 mm AVCR FOR WALKWAY Providing and laying 60mm thick faciory made cement concrete nachine with strong vibratory compection, of approved and, is, easign & shape, laid in required colour and pattern over and					
12	15.59 16.59.1	isam) made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets £ 20 cm c/c to back support frame of M.S. angle iron of size 25e/253 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Telesction ISMT 50x50x6 mm wasted with base plate of size ection ISMT 50x50x6 mm wasted with base plate of size of size 35x35x5mm to a vertical post made up to M.S. Telesction ISMT 50x50x6 mm wasted with base plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over prinning coat of zinc chromate yellow primer vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or Wandstory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm *AVER FOR WALKWAY* roviding and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade enade by block making nachline with strong wibratory compaction, of appreved size, lealing a size ps. Jaid in required colour and pattern over and recluding 50mm thick compacted bed of coates and. All the the					
1	15.59 16.59.1	isagm) made up of 2 mm thick aluminium sheet, face to be fully covered with high. Intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-D1 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-D1 and fixing the same with suitable sized aluminium alloy their 20 cm c/c to back support frame of M.S. angle icon of size 15e:25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5mm to a vertical post made up to M.S. Tee section ISMT-50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of size chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backride of aluminium sheet to be painted with two or Mandatory/ Regulatory sign boards of 900 mm diametre with hupport length of 7500 mm AVCR FOR WALKWAY Providing and laying 60mm thick faciory made cement concrete nachine with strong vibratory compection, of approved and, is, easign & shape, laid in required colour and pattern over and					
1	15.59 16.59.1	isagm) sagm) made up of 2 mm thick aluminium sheet, face to be fully covared with high intensity encapsulated type heat activated ratro reflective sheeting conforming to type 4V of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; \$27:201, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets £ 20 cm c/c to back support frame of M.S. angle iron of size 25e:2583 mm along with their resistage, measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35xSmm to a vertical post made up to M.S. Tee rection ISMT 50x50x6 mm wested with base plate of size 100x100x5 mm at the bottom end and including makingholes in pipes, engles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming cost of ziths chromate yellow primer vertical MS-Tee support to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming cost of ziths chromate yellow primer vertical MS-Tee support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm AVER FOR tVALKWAY Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade enade by block making nachine with strong vibratory conspection, of approved size, lesign & shape, laid in required colour and pattern over and naturality 50mm thick compacted bed of coarse sand, filling the points with line sand etc. all complete es per the direction of					

Providing and laying at or paragraphic levels (1)	S.No. I	DSR.	GILL OF QUANTITIES			 - : 	 	 -
snow of Mr -25 grade cemes concrete by peakints to the required species of the peakints of the contret market points swelly an extent 13 (2) cement 12 course pand), including making joints with or without grooves (thickness of pinks swelly at shape name dail and not to more than 5 mm), including making dishases opening wherever required complete etc. as pardianction of Engineer-in-charge (pand) in the peaking of the peakin		Itém	Description of work		Unit	DSR Rate		Amount
ten, level and curretture, jointed with cement mortar 1:3 (1 cement) 3 coars and junkturing musting junits without agrooms (thickness of joints rempt at sharp curve shall not to more than Smml, including analyting junits with my threater required demplete set, as part direction of Engineeric-charge jungth of finished learth adjoing also like eventured for payment). 24 16.63 Type A-Trapezham cross section Providing and laying matt finished vitilised tide of size 100:1000.156mm having waterstamposite ness than 0.5% and conforming to 15: 1542 of approved make to all colours and shades in out door floors such as favoring the court part multi 16:38 models etc., laid on 20mm thick has of careerst mortar 1:4 [Incement: 4 coars sand) in all despits, a patterns including grounding the joints with white current maked with matching pigments etc. complete as direction of Engineeri—Charge. 7 EVACULE TILES 7 TACTULE TILES 7 Trouding and laying tectial tile (for vision krupshed persons at per standard) of size 900x300x6.8mm hading with water absorption less than 0.5% and conforming to 15: 1552 of approved make in all colours and shades all not outdoor floors such as footpath, court yard, small soundark floors such as footpath, court yard, small soundark floors and a series of careerst mortar 1:4 (Incement: 4 coarse sand) in all analyses a patterns including grounding the joints with white coarse of careerst mortar 1:4 (Incement: 4 coarse sand) in all all patterns including grounding the joints with white coarse of careerst mortar 1:4 (Incement: 4 coarse sand) in all such seasons and shades also not such as footpath, parks, lawns, divine ways or light fraffic parking etc., of required careety, the distribution of Engineerin-Charge. 25 16-90 direction of Engineerin-Charge. 26 16-90 direction of Engineerin-Charge. 27 20 0 mm thick C.C. pawe block of M-30 grade with approved color receiving of pawer blocks as ap may lark extension, finishing end weeping extress on complete and and purpose embedding laying of laker fact	I						1	
cament 2 course and i, including making joints with or without grooss (hithteans of piblet easiers at sharp cause dail not to more than 5mm), including making dinksage opening wherever required deshiplete sit. a jar affection of Engineer-in-charge [legish of finished last an adging all it is even surred for payment). 24 16.63 Type A-Tra pezban criss section Providing and laying matt finished vitiled take of size 100x100x16mm having waterstamption less than 0.5% and conforming to 15: 1522 of approved make to all colours and shades in our door floors such as 5xxxpeth, court yerd multi-model etc., latd on 20mm table have of cament mortar 1:4 (Incement: 4 coarse sand) in all slapes a direction of Engineer-in-Charge. TACTILE TILES Providing and laying tectile tile (for vision krupalsed parsons as per ramdard) of size 900x100x28 and rateful payments etc. complete as direction of Engineer-in-Charge. TACTILE TILES Providing and laying tectile tile (for vision krupalsed parsons as per ramdard) of size 900x100x28 and rateful payments etc. complete as direction of Engineer-in-Charge. TACTILE TILES Providing and laying tectile tile (for vision krupalsed parsons as per ramdard) of size 900x100x28 and six payments etc. complete as per direction of Engineer-in-Charge. 36.00 TACTILE TILES Providing and laying tectile tile (for vision krupalsed parsons as per ramdard) of size 900x100x28 and six payments etc. complete as per direction of Engineer-in-Charge. 36.00 TACTILE TILES Providing and laying tectile tile (for vision krupalsed parsons as per ramdard) of size 900x100x28 and six payments etc. complete as per direction of Engineer-in-Charge. 36.00 Tactile Tiles Providing and laying factory made chamfored edge Cement Concrete payer blocks in footpath, parsh, akwar, drive ways or light traffic parking etc, of required strangth, thickness & size 3, shape, made by table vibratory method using P/U mould, laid in menulous payment blocks into the and of the size of the size of the size of the size of the size of the	ŀ					İ	1 1	
process (trickness of piolist senses at sharp curve doll not to more than 5mm), including sale high divisional of Engineer-in-charge (length of Rinkhad lants adging shall be researched here) 74 18.69 75 17ye A- Trapezhen cross section 77 Providing and laying matt finished vitilised talls of size 100-1001.5mm handly waterstamption less than 0.5% and conforming to 15: 15627 of sport order make in all colours and shades in out door floors such as finished, vitilised in the order of the shades in out door floors such as finished, the size of size and in the shades in out door floors such as finished, the size of size in out door floors such as finished, the size of size in out door floors such as finished, the size of size in out door floors such as finished with size of career in mortar 1:4 (Izstremen's 4 coarse sard) in all shapes & patterns including grouting the joilst with white cement mixed with matching playments atc. complete as direction of Engineer-in-Charge. 74 ACTUE TILES 75 Providing and laying totalis tile (for vision knowled persons as per standards) of size 900x300s-82em having with water absorption less than 0.5% and conforming so is 1; 15c2 of approved make in all solvatus and shades in for suddoor floors such as footpath, court year, such as worked socration set., India on 20mm thick base of cement mortar 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and in the size of cement mortars 1:4 (Izstrement's Accuracy and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and Izstrement and	- [1 1	
norse than Smml, including shaking disharage openings wherever planets of the provided of the	ŀ				İ	!	1 1	
required complete etc. as paralise/ston of Engineer-in-charge [length of finished kerb adging shall be measured for payment]. 24 16.63 Type A-Trapezhan cross section Providing and laying matt finished withiled this of size 100x10015.5mm having waterstamption feet shan 0.5% and conforming to 15: 15622 of approved make in all colours and shades in our door floors such as francepth, court yeard multi 16.88 models etc., latd on 20mm thick have of careent mortar 1:4 [Izement: 4 course sard) in all shapes & patterns including grouting the joints with white cement maked with matching pigments etc. complete as direction of Engineer-in-Charge. 7ACTILE TILES 7roriding and laying social sile (for vision krupaled parsons as per standards) of size 300x3000-9.5men having with water absorption less than 0.5% and conforming so 15: 15522 of approved make in all colours and sides as for outdoor floors such as footpath, court yearl, subli avoidals footstion etc., laid on 20mm thick base of cament mortar 1:3 (fooment: 4 course sand) in all shapes & patterns including grouting the ploints with white cement mixed with matching glagments etc. complete as par direction of Engineerin-Charge. 26 16-90 Providing and laying sociory made debandfured edge Cement Concernes pearer thooths in footpath, parks, lawns, drive verys or light traffic parking etc., of required currength, thickness & bias image, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper with bedinglying of biase fooking pavar blocks into the sand bedding layer through dishatory compaction by using pists a vibrator, filling the joints with sand and curring of pavar blocks of M-30 grade with approved color design and pattern. 28 19.18.1 Supplying and fixing C.I. cover-viblout frame for manholes: 19.18.1 Supplying and fixing C.I. cover-viblout frame for manholes: 29 19.18.1 Supplying and fixing C.I. cover-viblout frame for manholes:	[<u> </u>		1	ŀ	1. 1	
Iterative of finished kerb edgings hall be researched for payment).	' I					ı	1	
Type A- Trapezhar cross section 123.60 Cum 5012.65 7922.48 90503	ŀ	í	1				'	
Providing and laying matt finished vitrified tils of size 100x100x15mm having waterstamption her than 0.5% and conforming to 15: 15627 of approved make is all colours and shades in out door floors such a floutper, court yeard multi 16.88 (itement : 4 coarse sand) in all shupes is patterns including growting the joints with white connects make with matching plaments atc. complete as direction of Engineer-in-Charge. 1ACTILE TILES Providing and laying tactile tile (for vision irrepaised parsons as per standards) of size 9000000-95mm having with water absorption less than 9.5% and conforming to 15: 13622 of approved make in all icolours and shades in for custom floors such as footpath, court yerl, suchi wooded footpath all shapes is patterns including growting the joints with white coment mixed with matching gluments atc. complete as par direction of Engineer-in-Charge. 26 16.90 Providing and laying factory made chamfered edge Cament Concrete paver blocks in footpath, parks, awas, drive ways or light traffic parking etc, of required strength, thickness is size/ shape, made by table vibratory method using PU mould, laid in required colour is pattern over 50nm thick compacted bad of sand, compacting and yroper embedding/laying of sizer locking paver blocks into the sand bedding sizer through witeracy compaction by using patter vibratory, filling the joints with sand and cutting of paver blocks as par required size and pattern, finishing end we sping extra sand, compacting and yroper ambedding/laying of sizer locking paver blocks into the sand compacting and yrope ambedding/laying of sizer locking paver blocks into the sand compacting and yrope ambedding/laying of sizer locking paver blocks into the sand compacting and proper mixed ding/laying of sizer locking paver blocks into the sand compacting and yrope ambedding/laying of sizer locking paver blocks into the sand compacting and yrope ambedding/laying of sizer locking paver blocks into the sand compacting and yrope ambedding/laying of sizer locking paver blocks	24	16.69	1			1		
100x 200x 150m having waterstampstion less than 0.5% and conforming to (5: 15622 of approved make in all colours and shades in out door floors such as factpoth, enury year multi shades in out door floors such as factpoth, enury year multi models etc., laid on 20mm thick has of centent mortar 1:4 (Exement: 4 causes and) in all suppers & patterns including grouting the (cinits with white convent mixed with matching pigments atc. complete as direction of Engineer-in-Charge. 1ACTILE TILES Providing and laying tactile tile (for vision Anapaised persons as per standards) of size 900x300e-9.8mem having with water absorption less than 0.5% and conforming to 15: 15622 of approved make in all colours and sheds as for custoder floors such as footpath, court yerd, wells worked focation etc., laid on 20mm thick base of coment morter 1:4 (Icenment: 4 coarse sand) hand alwayse & patterns including greating the joints with white centent mixed with matching gigments atc. complete as per disection of Engineer-in-Charge. 26 16:90 Providing and laying factory made chamfased edge Centent Concrete paver blocks. In footpath, parks, lawns, cirve ways or light traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in sequined colour & pattern over 50mm thick compacted bad of and, compacting and proper embedding/laying of later focking pawer blocks into the tand bedding /ayer through with rand and customy of Engineer-in-Charge. 27 16:91.2 Somm thick C.C. pawer blocks of M-30 grade with approved color design and pattern. 28 19:18. Somm thick C.C. pawer block of M-30 grade with approved color design and pattern. 29 19:18. Supplying and fixing C.J. coverwithout frame for manholes: 19:18. Supplying and fixing C.J. coverwithout frame for manholes: 19:18. Supplying and fixing C.J. coverwithout frame for manholes: 19:18. Supplying and fixing C.J. coverwithout frame for manholes:				123.60	Curn	5012.65	7322.48	905058.42
conforming to 65: 15622 of approved make in all colours and shades in our door floors such as foxpath, return yeard multi models etc., laid on 20mm thick has of cament mortar 1:4 (Israment: 4 carses sand) in all skepts is patterns including grouting the (oldins with white cament maked with matching plagments atc. complete as direction of Engineer-in-Charge. 1ACTILE TILES Providing and laying tactils tile (for vision arguined persons as per standards) of site 90000004-8-tent having with water absorption less than 0.5% and conforming to 15: 15622 of approved make in all colours and shedes in for outdoor floors such as footpath, count yard, make worlden footpath, count yard, make worlden footpath, count yard, make worlden footpath in all shapes & patterns including greating the joints with white coment maked with matching algoriest to complete as per direction of Engineer-in-Charge. 26 16-90 Providing and laying factory made shamfured edge Cement Concrete paver blocks In isotipath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness is stayl shape, made by table viberatory method using PU mould, laid in required colour & pattern over 55mm thick compacted bad of sand, compacting and proper embedding/laying of boar focking paver blocks into the sand bedding layer through wheretory compaction by using plats a vibrator, filling the folius with sand and curting of paver blocks as per mequired size and pattern, finishing and sweeping extressed. Complete all as per direction of Engineer-in-Charge. 20 19.18 Supplying and fixing C.I. cover-without frame for manholes: 16.91. South of the not less than 23 lig. 19.19. South of the not less than 22 lig. 19.19. Nos. 1227.15 1792.62 1900.	≭]					1		
shades in our door floors such as flootpath, court yard multi models etc., lated on 20mm thick hase of cament mortan 1:4 [Icament: 4 coarse sand) in all subjects to patterns including grouting the Joints with white cament mixed with matching plagments etc. complete as direction of Engineer-in-Charge. 1ACTILE TILES Providing and laying tectils tile flor vision arquivined persons as per standards) of size 300x30x-8.Ream haseing with water absorption less than 0.5% and conforming to 1sc 15522 of approved make in all colours and shorles in for outdoor floors such as footpath, court yard, such invokals flooration etc., laid on 20mm thick base of coment morter 1:8 (Leament: 4 coarse sand) In all all allease 8 patterns including grauting the joints with white cement mixed with matching plagments artc. complete as per direction of Engineer-in-Charge. 25 16.99 Providing and laying factory made chamfered edge Cement Concrete paver blocks In footpath, parks, lawns, civic ways or light traffic parking etc. of required strangeth, thickness & stay shape, made by table vibratory method using PU mould, laid as required colour & pattern over 5thron thick compacted bad of sand, compacting and proper embedding/laying of bater fooking paver blocks into the sand bedding layer through wheretory compaction by using pixta vibratory, filling the folius with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand; complete all as per direction of Engineer-in-Charge. 27 16.91.2 30 mm thick C.C. paver block of M-30 grade with approved color design and pattern. 72.00 sqm 638.95 933.38 67201 31.91.8 32.19.18.1 33.00 34.227.15 35.00 36.00	- 1		- · ·			1	l i	
models etc., laid on 20mm thick base of cament mortar 1:4 (Ecament: 4 coatree and) in all-slopes is patterns including grouning the (olitis with white cament mixed with matching plagments atc. complete as direction of Engineer-in-Charge. 7ACTILE TILES Providing and laying tactile tile (for vision imposited persons as per standards) of size 3000004-3 men having with water absorption less than 0.5% and conforming to 15: 35622 of approved make in all colours and shedes in for outdoor floors such as footpath, court yen, unail avoids models foots on etc., faild on 20mm thick base of cement mortar 1:4 (scement: 4 coarse sand) in all shapes 8 patterns including greating the joints with white coment mixed with matching signments atc. complete as per direction of Engineer-in-Charge. 26 36.90 Providing and laying factory made chamfissed edge Cement Concrate power blocks in footpath, parks, fawns, drive verys or light traffic parking etc., of required strength, thickness is taked shape, made by table wheretory method using PU mould, laid in required colour 8 pattern over 55hnm thick compacted bad of sand, compacting and proper embedding/laying of later locking paver blocks into the sand bedding layer through wheretory compaction by using plate a wibrator, filling the joints with sand and curting of paver blocks as per mequired size and pattern, finishing and sweeping extres sand, complete all as per direction of Engineer-in-Charge. 20 15.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 21 22 So mm thick color pattern of Engineer in-Charge. 22 19.18 Supplying and fixing C.L. cover-without frame for manholes: 31 19.18 Supplying and fixing C.L. cover-without frame for manholes: 32 19.18 Supplying and fixing C.L. cover-without frame for manholes: 33 19.18 Supplying and fixing C.L. cover-without frame for manholes: 34 19.18 Supplying and fixing C.L. cover-without frame for manholes:	- 1					j	1 1	
[Ecement: A coarse sand) in all shapes & patterns including growting the joints with white cament mixed with matching plagments at complete as direction of Engineer-in-Charge. 7ACTILE TILES Providing and laying tactile tile (for vision) knywaired persons as per stendards) of size 300x300e-9.6mm having with water abborption less than 0.5% and conforming to 15: 35622 of approved make in all tobus and size-less in for outdoor floors such as footpath, court yard, auxili models focation etc., laid on 20mm thick best of cement mortal 1:4 (Soement: 4 coarse sand) in all alwayse & patterns including growting the joints with white cement maked with matching algorithm at the coment maked with matching algorithm at the coment come of the points with white coment maked with matching algorithm at the coment come of the coment maked with matching algorithm at the coment come of the coment maked with matching algorithm at the coment come of the coment maked with matching algorithm at the coment come of the coment coment of the coment coment of the coment coment of the coment coment of the c	- 1		[}	1 1	
prouting the joints with white connect mixed with matching pigments atc. complete as direction of Engineer-in-Charge. TACTILE TILES Providing and laying tactile tile (for vision hywaised persons as per standards) of size \$00,000 persons may be restandards) f size \$15,022 of approved make in all tobuss and shudes in for outdoor floors such as footback part, court part, such in social persons, court part, such size persons in the size of cement morter 1:4 (soement: 4 coarse sand) in all shapes & patterns including greatest atc. complete as per direction of Engineer-in-Charge. 26 16.90 Providing and laying factory made chamfered edge Cement Concrete paver blocks in footback pasts, lawns, cive ways or sight traffic parking etc, of required strength), thickness & size all shape, made by table witerstory method using PU mould, laid in required colour & pattern over 50 mm thick compacted bad of sand, compacting and proper embedding/laying of laker locking paver blocks into the sand bedding layer through witerstory compaction by using plate a vibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing end sweeping extre send, complete all as per direction of Engineer-in-Charge. 27 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19.18.1 Supplying and fixing C.I. cover without frame for manholes: 29 19.18.2 Supplying and fixing C.I. cover without frame for manholes: 20 19.18.1 Supplying and fixing C.I. cover without frame for manholes: 21 19.18.2 Supplying and fixing C.I. cover without frame for manholes: 22 19.18.3 Supplying and fixing C.I. cover without frame for manho	- 1	1028	·			1	1 1	
pigments atc. complete as direction of Engineer-in-Charge. TACTILE TILES Providing and laying tactile tile (for vision irrepaised parsons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to 15: 35672 of approved make in all colours and shades in for outdoor floors such as footpath, court yerd, such avoids focusion etc., laid on 20mm thick best of cement mater 1: 8 (Soment: 4 coarse sand) in all shapes & pattams including grouting the joints with white cement mixed with matching gigments atc. complete as per direction of Engineerin-Charge. 26 16:90 Providing and laying factory made chamifered edge Cement Concrete paver blocks in footpath, parks, fawns, chive very car light traffic parking etc., of required strength, thickness & sizal shape, made by table vibratory method using PU mould, laid in required colour & pattern over 5thm thick compacted bad of sand, compacting and proper embedding/laying of later focking paver blocks into the sand bedding fayer through vibratory compection by using plate vibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing and sweeping extrement complete all as per directions of Engineer-in-Charge. 27 16:91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19.18 Supplying and fixing C.I. coverwithout frame for manholes: 19.19 1.10 Nos 1227.15 1792.62 19001 10 TOTAL	- 1					i	1 1	
TACTILE TILES Providing and laying tactile tile (for vision) knywaised persons as per standards) of size 300x300s-9.6xem hasing with water absorption less than 0.5% and conforming to 15: 13672 of approved make in all cobius and shedses in for austicar floors such as footpath, court yerd, suchis excised shoes to not clear floors such as footpath, court yerd, suchis excised shoes to not clear floors such as footpath, court yerd, suchis excised shoes to not clear floors such as footpath, court yerd, suchis excised shoes to not clear than 16: 13: 13: 14: 15: 15: 15: 15: 15: 15: 15: 15: 15: 15	i		I* = -				1 1	
Providing and laying tactile tile (for vision browshed persons as per standards) of size 300x300x9.8mm hasing with water absorption less than 0.5% and conforming to 16: 15:52 of approved make in all cobus and shedes in for autdiour ficors such as footpath, court yerd, such available focusion etc., laid on 20mm thick between of enterin matter 3: 8 (Somemet: 4 coarse sand) in all shapes & patterns including grouting the joints with white coment mixed with matching algorests atc. complete as per direction of Engineer-in-Charge. 26 16:90 Providing and laying factory made charofished edge Cement Concrete paver blocks In footpath, parks, lawns, cirke ways or Sight traffic parking etc., of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required store in a size of store in the stand bedding laying of later focking paver blocks into the sand bedding laying of later focking paver blocks into the sand bedding layer intrough vibratory compection by using plate a vibrator, filling the joints with sand and crutting of paver blocks as per required size and pattern, finishing end sweeping extremely and pattern. 27 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19.18.1 Supplying and fixing C.L. cover without frame for manholes: 29 19.18.2 Supplying and fixing C.L. cover without frame for manholes: 29 19.18.1 Cover to be not less than 23 lg 1001.	i		pignished are: companys as an account of the interest are cital for	36.00	som	842.95	1291.38	44329.73
per stendards) of size 300x300x9.8rem having with water absorption less than 0.5% and comforming to 15: 15572 of approved make in all colours and sheets in for outdoor floors such as footpath, count yard, audit models focation etc., laid on 20mm thick base of convent morbs 1:4 (Icoment: 4 coarse sand) in all shapes & patterns including greating the joints with white cemean maked with matching glagments atc. complete as per direction of Engineer-in-Charge. 26 16:90 Providing and laying factory made chamfasted edge Cement Concrete paver blocks in footpath, parks, faver, so signife traffic parking etc., of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later focking paver blocks into the sand bedding layer through withstory compection by using plate vibratory, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extremends of pattern. 27 16:91 Somm thick C.C. power block of M-30 grade with approved color design and pattern. 28 19:18:1 Supplying and fixing C.L. cover-vibrout frame for manholes: 39 39:38 19:18:1 Supplying and fixing C.L. cover-vibrout frame for manholes: 41 19:18:1 Supplying and fixing C.L. cover-vibrout frame for manholes: 42 19:18:1 Supplying and fixing C.L. cover-vibrout frame for manholes: 43 19:18:1 Supplying and fixing C.L. cover-vibrout frame for manholes: 45 25 5 6 10 mm rectangular C.L. cover-flight duty) the weight of the cover to be not less than 23 kg. 19:18:1 Supplying and fixing C.L. cover-vibrout frame for manholes: 45 25 6 10 mm rectangular C.L. cover-flight duty) the weight of the cover to be not less than 23 kg. 46 25 700 10 mm rectangular C.L. cover-flight duty) the weight of the cover to be not less than 23 kg.	_		TACTILE TILES		_==	2,2.5,5	22222	***************************************
per stendards) of size 300x300x9.8rem having with water absorption less than 0.5% and comforming to 15: 15672 of approved make in all tologous and sheets in for outdoor floors such as footpath, count yard, authi workels flocation etc., laid on 20mm thick base of coment morbs 1:4 (Leament: 4 Coarse sand) in all shapes & patterns including greating the joints with white cement mixed with matching algorists att. complete as per direction of Engineer-in-Charge. 26 16.90 Providing and laying factory made chamfored edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or sight traffic parking etc, of required strength, thickness & size/singe, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later focking paver blocks into the sand bedding layer through without one pattern over 50mm thick compacted bad of foots with sand and curting of paver blocks as per sequired size and pattern, filling the folints with sand and curting of paver blocks as per sequired size and pattern, finishing and sweeping extremend. Complete all as pes direction of Engineer-in-Charge. 20 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 21 19.18 Supplying and fixing C.L. cover-without frame for manholes: 22 19.18.1 Supplying and fixing C.L. cover-without frame for manholes: 23 19.18.1 On more rectangular C.L. cover-light duty) the weight of the cover to be not less than 23 kg. 24 19.18.1 Sign from rectangular C.L. cover-light duty) the weight of the cover to be not less than 23 kg. 25 1707AL 905701			Providing and laying tactile tile (for vision knowled persons as					
absorption less than 0.5% and conforming to 15: 356/22 of approved make in all cobusts and shedes in for outstloar floors such as footpath, count yard, such is models footblonete., laid on 20mm thick base of coment morbs 1:4 (Loement: 4 coarse sand) in all shapes & patterns including greating the joints with white cement maked with matching greating the joints with white cement maked with matching greating the joints with white cement maked with matching greating the joints with white cement maked with matching greating the joints with white compact of direction of Engineerin-Charge. 26 16-90 Providing and laying factory made chamfased edge Cement Concrete paver blocks In footpath, parks, fawns, drive we've or light traffic parking etc., of required strength, thickness & size/ shape, made by table wheatory method using PU mould, laid in required colour B pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later focking paver blocks into the sand bedding fayer through whratory compaction by using plate vibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing and sweeping extremal complete all as per direction of Engineer-in-Charge. 27 16-91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19-18 Supplying and fixing C.L. coverwithout fivares for manholes: 39 19-18 Supplying and fixing C.L. coverwithout fivares for manholes: 45 SSASIO mm rectangular C.L. cover light duty) the weight of the cover to be not less than 23 kg. 19-18 105 Nos 1227.15 1792.62 19001							1 I	
such as footpath, court yard, sualit workalt Sociation etc., fald on 20mm thick bess of coment morts 1.14 (Scennent: 4 coarse sand) in all shapes & patterns including grouting the joints with white coment mixed with matching agreents att. complete as per direction of Engineer-in-Charge. 26 16.90 Providing and laying factory made chamfered edge Carment Concrete paver blocks in footpath, parks, tawns, drive verys or light traffic parking etc, of required strength, thickness & size/ shape, made by table otherstory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later locking paver blocks into the sand bedding layer through wheretory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing end sweeping extre sand, complete all as per directions of Engineer-in-Charge. 27 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 72.00 sqm 638,95 933.28 6720: 19.18 Supplying and fixing C.I. cover without frame for manholes: 455x610 mm rectangular C1. cover (fight duty) the weight of the cover to be not less than 23 kg 10TAL 905701	- 1		r · · · · · · · · · · · · · · · · · · ·		ļ		í l	
20mm thick base of coment morter 1:4 (Joement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching algorithm to complete as per direction of Engineer-in-Charge. 26 16-90 Providing and laying factory made chamfored edge Cement Concrete paver blocks in footpath, parks, fawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later locking pawer blocks into the sand bedding layer through vibratory compection by using plate a vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extre sand, complete all as per direction of Engineer-in-Charge. 27 16-91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19-18 Supplying and fixing C.i. cover without frame for manholes: 29 19-18 4-SSx810 mm rectangular C.i. cover (light fluity) the weight of the cover to be not less than 23 kg. 105 Nos. 1227.15 1792.62 19001 29 1070AL 905701	- [approved make in all colours and sharles in for outdoor floors		į		i !	
in all shapes & patterns including grouting the joints with white cement mixed with matching pagments atc. complete as per direction of Engineer-in-Charge. 26 16.90 Providing and laying factory made chamfored edge Cement Concrete paver blocks in footpath, parks, lawns, drive weeks or light traffic parking etc, of required strength, thickness & size/shape, made by table vibratory method using PU mould), latel in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later locking paver blocks into the sand bedding layer of through vibratory compaction by using plate vibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing end sweeping extremed complete all as per directions of Engineer-in-Charge. 27 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19.18 Supplying and fixing C.I. cover without frame for manholes: 29 19.18 455x610 mm rectangular C.I. cover (fight duty) the weight of the cover to be not less than 23 kg. 105 Nos. 1227.15 1792.62 19001.			such as footpath, court yard, multi-module focation etc., laid on		i '	1		
cement mixed with matching alignents arts. complete as per direction of Engineer-in-Charge. 25 Providing and laying factory made chamfased edge Cement Concrete paver blocks in footpath, parks, tawns, drive ways or light traffic parking atc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over Simm thick compacted bad of sand, compacting and proper embedding/laying of later locking paver blocks into the sand bedding (ayer through whentory compaction by using plate wibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing and sweeping extre sand, complete all as per directions of Engineer-in-Charge. 27 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19.18 Supplying and fixing C.L. cover-without frame for manholes: 29 19.18.1 Supplying and fixing C.L. cover-tight duty) the weight of the cover to be not less than 23 kg. 190.5701			20mm thick base of coment morter 1:4 (1coment : 4 coarse sand)			ŀ	l f	
26 16.90 direction of Engineer-in-Charge. Providing and laying factory made chamfered edge Cerment Concrete paver blocks In footpath, parks, tawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50 nm thick compacted bad of sand, compacting and proper embedding/laying of later locking power blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing end sweeping extre sand, complete all as per direction of Engineer-in-Charge. 27 16.91.2 50 mm thick C.C. paver block of \$4-30 grade with approved color design and pattern. 72.00 sqm 636,95 933.38 6720: 19.18 5upplying and fixing C.L. cover without frame for manholes: 455x610 mm rectangular C.L. cover flight duty) the weight of the cover to be not less than 23 kg. 19.18.1 19.18.1 cover to be not less than 23 kg. 105 Nos 1227.15 1792.62 19001			in all shapes & patterns including grouting the joints with white		l .	ļ -]	
Providing and laying factory made chamfered edge Cernent Concrete pawer blocks In footpath, parks, tawns, drive ways or light traffic parking etc., of required strength, thickness & star/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later locking pawer blocks into the sand bedding layer through vibratory compaction by using plate vibratory, filling the folius with sand and curtiling of paver blocks as per required size and pattern, finishing end sweeping extre send, complete all as per directions of Engineer-in-Change. 27 16.91.2 19.18 Supplying and fixing C.I. cover-without frame for manholes: 19.18.1 19.18.1 19.18.1 19.18.1 19.18.1 10.6 10.6 10.6 10.6 10.7	- 1					1	l i	
Concrete paver blocks In footpath, parks, tawns, drive ways or light traffic parking etc, of required strength, thickness & starl shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of later locking pawer blocks into the sand bedding layer through whatevery compaction by using plate vibrator, filling the joints with sand and curting of paver blocks as per required size and pattern, finishing and sweeping extre sand, complete all as per direction of Engineer-in-Charge. 16.91.2 16.91.2 19.18 19.18 19.18.1 19.18.1 19.18.1 19.18.1 10.18 10.1	26	16.90	direction of Engineer-in-Charge.	432.70	Seym	1450.45	2118.82	915329.10
in footpath, parks, tawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50 nm thick compacted bad of sand, compacting and proper embedding/laying of later locking pawer blocks into the sand bedding layer through vibratory compaction by using plate a vibrator, filling the folints with sand and curting of paver blocks as per required size and pattern, finishing end sweeping extre sand, complete all as per direction of Engineer-in-Change. 16.91.2 BO mm thick C.C. paver block of \$4.30 grade with approved color design and pattern. 19.18 Supplying and fixing C.J. coverwithout frame for manholes: 45.5x610 mm rectangular C.J. cover light duty) the weight of the cover to be not less than 23 kg. 19.18.1 19.18.1 Nos 1227.15 1792.62 19001								
required strength, thickness & sizal shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50nm thick compacted bad of sand, compacting and proper embedding/laying of labor focking pawer blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the folints with sand and curting of pawer blocks as per required size and pattern, finishing end sweeping extre send, complete all as per direction of Engineer-in-Charge. 27 16.91.2 So mm thick C.C. paver block of M-30 grade with approved color design and pattern. 28 19.18 Supplying and fixing C.J. cover without frame for manholes: 29 455x610 mm rectangular C.I. cover light duty) the weight of the cover to be not less than 23 kg. 19001. 30 Nos 1227.15 1792.62 19001.	ŀ	i	,		!		! . I	
thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bad of sand, compacting and proper embedding/laying of labor focking pawer blocks into the sand bedding (ayer through whratory compaction by using plate wibrator, filling the joints with sand and curting of pawer blocks as per required size and pattern, finishing end sweeping extre sand, complete all as pes direction of Engineer-in-Charge. 27 16.91.2 50 mm thick C.C. paver block of \$4-30 grade with approved color design and pattern. 72.00 sqm 638,95 933.38 67203 19.18 5upplying and fixing C.L. cover without frame for manholes: 8.1 19.18.1 455x810 mm rectangular C.L. cover flight duty) the weight of the cover to be not less than 23 kg 1001 TOTAL 905703					[t I	
PU mould, laid in required colour is pattern over 50 nm thick compacted bad of sand, compacting and proper embedding/laying of later locking power blocks into the sand bedding layer through withratory compaction by using plate vibrator, filling the joints with sand and curting of power blocks as per required size and pattern, finishing end sweeping extre sand, complete all as per directions of Engineer-in-Charge. 16.91.2 50 mm thick C.C. paver block of \$4-30 grade with approved color design and pattern. 72.00 sqm 636,95 933.38 6720: 19.18 5upplying and fixing C.L. cover without frame for manholes: 455x610 mm rectangular C.L. cover flight duty) the weight of the cover to be not less than 23 kg 1001.	- 1				ĺ			
required colour & pattern over 50nm thick compacted bad of sand, compacting and proper embedding/laying of later locking power blocks into the sand bedding layer through vibratory compaction by using pixta vibratory, filling the folints with sand and curting of power blocks as per required size and pattern, finishing end sweeping extre send, complete all as pas directions of Engineer-in-Charge. 27 16.91.2 16.91.2 19.18 Supplying and fixing C.I. cover without frame for manholes: 19.18.1 19.18 On m rectangular C.I. cover without frame for manholes: 19.18.1 19.18 PSSS10 mm rectangular C.I. cover light duty) the weight of the cover to be not less than 23 kg. 19.18.1 10.6 10.6 10.6 10.6 10.7 10.	- 1							
16.91 20 16.91 16.91 21 16.91 22 16.91.2 30 mm thick C.C. paver block of M-30 grade with approved color design and pattern. 22 19.18 19.18 19.18.1 19.18.1 23 19.18.1 24 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20	1		1 1					
proper embedding/laying of later tocking power blocks into the sand bedding layer through vibratory compaction by using plate wibrator, filling the foliate with sand and curiting of paver blocks as per sequired size and pattern, finishing end sweeping extre-send, complete all as per directions of Engineer-in-Charge. 27 16.91.2 50 mm thick C.C. paver block of M-30 grade with approved color design and pattern. 72.00 sqm 638.95 933.38 67201 19.18 Supplying and fixing C.I. coverwithout frame for manholes: 19.18.1	- 1		I		1			
through vibratory compaction by using plata vibrator, filling the foliats with sand and curiting of power blocks as per required size and pattern, finishing and sweeping extrements and complete all as per directions of Engineer-in-Change. 27 16.91.2 16.91.2 19.18 Supplying and fixing C.I. cover without frame for manholes: 19.18 1 19.18	- 1	1431	1 ' ' * .					
County with sand and curting of paver blocks as per required site and pattern, finishing end sweeping extre send, complete all as per directions of Engineer-in-Charge.	ĺ				1			
cutting of paver blocks as per sequired size and pattern, finishing end sweeping extre-send, complete all as per direction of Engineer-in-Charge. 16.91.2 16.91.2 19.18 Supplying and fixing C.1. cover without frame for manholes: 19.18.1	- 1							
### 27 ### 27 ### 28 ### 29 #### 29 #### 29 #### 29 #### 29 #### 29 #### 29 ##### 29 #### 29 #### 29 ##### 29 ##### 29 ########	ĺ		l' '					
### 27 Extre send. complete all as per directions of Engineer-in-Change. 16.91.2 SO mm thick C.C. paver block of M-30 grade with approved color design and pattern. 72.00 sqm 636.95 933.38 67201 19.18 Supplying and fixing C.J. cover without frame for manholes : 455x610 mm rectangular C.J. cover tight dusty) the weight of the cover to be not less than 23 kg 106 Nos 1227.15 1792.62 19001 TOTAL 905701	[
16.91.2 50 mm thick C.C. paver block of M-30 grade with approved color design and pattern. 72.00 sqm 636,95 933.38 67205 19.18 Supplying and fixing C.I. coverwithout frame for manholes :	ŀ]	1		
16.91.2 50 mm thick C.C. paver block of M-30 grade with approved color design and pattern. 72.00 sqm 638,95 933,38 67203	₂₂		extre seno . complete all as per direction of Engineer-in-Charge.			ļ -		
design and pattern. 72.00 sqm 638,95 933.38 67201 19.18 Supplying and fixing C.I. coverwithout frame for manholes :		16.91.2	- · · · · · · · · · · · · · · · · · · ·					
28. 1 19.18.1 455x610 mm ractangular C1. cover (flight duty) the weight of the cover to be not less than 23 kg 1001 1001 1001 1001 1001 1001 1001 1			design and pattern.	72.00	sqm	686.95	933.38	67203,23
19.18.1 25.x610 mm rectangular C.I. cover flight duty) the weight of the cover to be not less than 23 kg 19.001 TOTAL 19.001 905705	<u>.</u>	19.18	Supplying and fixing C.I. coverwithout frame for manholes:					
### Cover to be not less than 23 kg 106 Nos 1227.15 1792.62 19001 TOTAL 905705	= -		455x610 mm rectangular C.I. cover (light duty) the weight of the					
39376	8.1			106	Nos	1227.15	1792.62	190017.60
GST RATE 12%								9057054.39
GRAND TOTAL 10939			GST RATE 12%					1086846.53

COST ESTIMATE OF AMOUT PROJECT FOR WALKWAY DEVELOPMENT AT PAMBAYIMOOLA, KOCHI

3	SCHEDULE 1- CIVIL WORK FOR WALK SITE CLEARANCE & DISMANTLING WORKS Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared. Demotishing cement concrete manually/ by mechanical means including disposal of material including all leads and all lifts involved up to contractors dumping yards Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge. Disposal of building rubbish / maiba / similar unserviceable, dismantled or	2.00	720.00 720.00	2.00	0.2	2880 2880 2880 51 51	Unit Sqm Cum
2.32 2 15.2 3 15.2.2 3 15.3.2	SITE CLEARANCE & DISMANTLING WORKS Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared. Demotishing cement concrete manually/ by mechanical means including disposal of material including all leads and all lifts involved up to contractors dumping yards Mominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	2.00	720.00	1		2880 51 51	
2.32 2 15.2 3 15.2.2 3 15.3.2	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared. Demotishing cement concrete manually/ by mechanical means including disposal of material including all leads and all lifts involved up to contractors dumping yards Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demotishing R.C.C. work manually/ by mechanical means including stacking of steet bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	255	1		2880 51 51	
2 15.2 1.1 15.2.1 1.2 15.2.2 3 15.3	Demotishing cement concrete manually/ by mechanical means including disposal of material including all leads and all lifts involved up to contractors dumping yards Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	255	1		2880 51 51	
2 15.2 1.1 15.2.1 1.2 15.2.2 3 15.3	Demotishing cement concrete manually/ by mechanical means including disposal of material including all leads and all lifts involved up to contractors dumping yards Mominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	255	1		2880 51 51	
15.2 1.1 15.2.1 1.2 15.2.2 3 15.3	disposal of material including all leads and all lifts involved up to contractors dumping yards Mominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bers and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	255	1		2880 51 51	
15.2 1.1 15.2.1 1.2 15.2.2 3 15.3	disposal of material including all leads and all lifts involved up to contractors dumping yards Mominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bers and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.					\$1 51	
15.2 1.1 15.2.1 1.2 15.2.2 3 15.3	disposal of material including all leads and all lifts involved up to contractors dumping yards Mominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bers and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.					51	Cum
3 15.3 15.3 3 15.3	Contractors dumping yards Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.					51	Cum
3 15.2.2	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.					51	Cum
3 15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.					51	Cum
3 15.3	Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.					51	Cum
3 15.3	Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	10	1	0.2		Cum
3 15.3	Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	10	1	0.2	2	
3 15.3	Demotishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.	1	10	1	0.2	2	
15.:	stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.						4
15.:	stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.					2	Cum
15.:	stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - In- charge.						
4	of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.			1			l
4	as per direction of Engineer - In- charge.						l
	per direction of Engineer - In- charge.		1			! . !	l
						<u> </u>	l
	Dispersal of building rubbish / malks / similar unsured cable discounted or			 		 	
	Disposal of huilding rubbish / malha / similar ups apple able dismantled or	1	300	1	0.2	60	Cum
	TESTICIST OF SUBSTIDE FURNISH / Mains / timilar unsuppires his dismantiad or	ļ	 	ļ	ļ	60	Cum
15.60		i				[, , ,]	ĺ
15.60	waste materials by mechanical means, including loading, transporting,	[[. · ']	i
	unleading to approved municipal dumping ground or as approved by		1 1				l
1	Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts		f			. !	l
	involved.		<u> </u>			<u>:</u>	Cum
 -	The state of the s	1	255	1	0.2	51	<u> </u>
		1	300	1	0.2	60	
	<u> </u>		1			111	Cum
5	Demolishing stone rubble masonry manually/ by mechanical means						ĺ
15.9	including stacking of serviceable material and disposal of unserviceable	ļ				,	1
13.9	material and disposal including all leads and all lifts involved up to	1		1		()	1
	contractors dumping yards						i
15.9.2	in cement mortar	1	3	1	0.5	1.5	
						1.5	Cum
16.82	Taking out existing kerb stones of all types from footpath/ central verge including removal of morter etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material and disposal including all leads and all lifts involved up to contractors dumping yards						
		1	540.00			540.00	
		· · · · · · · · · · · · · · · · · · ·	 • •••••				Rm
7	Taking out existing CC interlocking paver blocks from footbath/ central	ĺ	 	-		- 10.00	71419
		•					l
16.83	material to the dumping ground, for which navment shall be made	1					l
-3.22	separately and stacking of serviceable material within 50 metre lead as	[l
		1	'	i	j	i l	-
\neg		1	390.00	200		780.00	
			020.00				5qm
1			 	, 	· · · ·		24/11
	BARRICADING WORKS		 				·····
	BARRICADING WORKS						
	Providing and erecting 1.2 metre high temporary barricading at site as per				, ,		l
				· [1 i		1
	Providing and erecting 1.2 metre high temporary barricading at site as per						1
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during						
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs,						
	Providing and erecting 1.2 metre high temporary barricading at site as per chawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The						
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c						
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many						
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its	·					·
	Providing and erecting 1.2 metre high temporary barricading at site as per chawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all	·					
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute						
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of	·					
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously I/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.			-			
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge. (Note:-One time payment shall be made for providing barricading from			-			
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge. (Note:-One time payment shall be made for providing barricading from shall remain to be the property of the contractor on completion of the			-			
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge. (Note:-One time payment shall be made for providing barricading from			-			
	Providing and erecting 1.2 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge. (Note:-One time payment shall be made for providing barricading from shall remain to be the property of the contractor on completion of the	1,00	110.00	-		110.00	
	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubinish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	1	390.00	2.00		-	780.00 780.00

								 -
9		EARTH WORK EXCAVATION				 -		_
Ť		Farth work in excavation by mechanical means (Hydraulic excavator) /		Ì		1		` `
- 4		manual means in foundation trenches or drains (not exceeding 1.5 m in			!		1	
- 1		width or 10 sqm on plan), including dressing of sides and ramming of	i	\		ļ		
- 1	2.8	hottoms, lift upto 1.5 m, including getting out the excavated soil and				1		
ı		disposal of surplus excavated soll as directed, within a lead of 50 mt.	1			į.	• 1	
ł			<u></u>			0.30	960.00	
	2.8.1	All kinds of soil.	2	800.00	2.00	Ų.3U	960.00	Cum
_							360.00	Cum
10		Filling available excavated earth (excluding rock) in trenches, plinth, sides			1	·		
		of foundations etc. in layers not exceeding 20cm in depth, consolidating		l	i	1	ļ	
j	2.25	each deposited layer by ramming and watering, lead up to 50 m and lift	}				1	
		upto 1.5 m.					***	
$\neg \neg$			2	720.00	1.00	0.20	288.00	
							288.00	Cum
11		Random rubble masonry with hard stone in foundation and plinth						
^		including						
ļ	7.1	levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12			İ			
	7.1	graded					-	
		stone aggregate 20 mm nominal size) upto plinth level with :						
		Cement mortar 1:6 (1 cement : 6 coarse sand)	1	3	ī	0.5	1.50	
	7.1.1	Cement mortar 1:0 (1 certient : 6 coarse sand)					1.50	Cum
		P.C.C					-	
12		Providing and laying in position cement concrete of specified grade					1	
	4.1	excluding the cost of centering and shuttering - All work up to plinth level						
		<u> </u>						
12.1	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm			- 1	ļ	- 1	
]	4-1-0	nominal size)				040	164 00	
			2	410.00	2.00	0.10	164.00	Сит
						+	164.00	Cum
	-	BOLLARDS						
13	4.9	Precasting and placing in position 125 mm dia Bollards 600 mm high of				i		
		required shape, including providing M.S. Pipe Sleeve 50 mm dia 300 mm						
		long in the Bollard and M.S. Pipes 40 mm dia and 450 mm long with					ļ	
		150x150x6mm M.S. plate welded at bottom and embedded 150 mm in				1	1	
		cement concrete 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone				i	į	·
	Ì	aggregate 20 mm nominal size), including necessary excavation of size 250		ļ				
	Ì	× 250 x 450 mm deep for the same in bitumen/concrete pavement at		١.	1 1		1	
	 -	specified spacing.	120.00	1.00		_ "	120.00	•
			. 220.00	2,02	 		120.00	No
	<u> </u>	THE PARTY PA						
		REINFORCED CEMENT CONCRETE		 		<u></u>		
14	5.1	Providing and laying in position specified grade of reinforced cement						
		concrete,						
		excluding the cost of centering, shuttering, finishing and reinforcement -		!	!			
		All work						
	ļ	up to plinth level:						
	<u> </u>			 	 -			
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20	ļ					
		mm nominal size)		<u> </u>	<u> </u>			
	 	Precast slabs Top	2	380.00	1.00	0.15	114.00	
		R C C FOR BUS SHELTER	1	4.00	3.00	0.30	3.60	
	 						114.00	
15	1	Steel reinforcement for R.C.C. work including straightening, cutting,	1	T				_
	5.22	bending, placing in position and binding all complete upto plinth level.			1	j		
	321	BETWINE PIECUS IN POSICION BING GRANDERS OF COMPLETE OFFICE PRODUCTION		i				
	 	Thermo-Mechanically Treated bars of grade Fe-500D or more.	 	 			2435.55	1
	5.22.6	Inermo-Mechanically Mealed bars of grade re-3000 of more:] :	<u> </u>	114.00	80.00	9120.00	kg
	1			<u>'</u>		<u> </u>	9120.00	
	 	BUS STOP STRUCTURE				<u> </u>		
16	 	Structural steel work riveted, bolted or welded in built up sections, trusses						
		and			1.0		1350.00	
	10.2	framed work, including cutting, hoisting, fixing in position and applying a	;	135	10		100.00	1
		priming coat of approved steel primer all complete.	1		1	}	i _	<u> </u>
	 	Paramitig course abbreace steer branch an combinere:	†	1	 	1	1350.00	Kg
	 		 	+	+	† · · · · ·		_ _
17	1	Steel work welded in built up sections/ framed work, including cutting,	1	1	1	1	İ	ļ
		holisting,]		1			1
	10.25	15 5 3	l	1		1		1
	1	using structural			1	1		l
	<u>i</u>	steel etc. as required.			1	1	ļ	\
		In gratings, frames, guard har, ladder, railings, brackets, gates and similar			1		1	1
	10.25.	works	90.00		4.00	ļ	360.00	<u> </u>
	 						360.00	Kg
18	1	Providing and fixing hand rail of approved size by welding etc. to steel		T -]	1	1
	10.26			Į.				
		applying priming coat of approved steel primer.	<u>L</u> _	<u> </u>	<u> </u>	<u> </u>	<u>L</u>	ــــــــــــــــــــــــــــــــــــــ
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		COST ESTIMATE OF AMRUT PROJECT FOR WALL	NWAT DE	CLUPNIE	T AT PAIVI	DATINOULA, KO	√ \
5.No	OSR Item code	BILL OF QUANTITIES Description of work	No. ar Qty.	Unit	DSR Rate	Rate +Cost Index@46.08	Amount
	•	SCHEDULE 2- LANDSCAPIN		16-HORTI	CULTURE	· · · · · · · · · · · · · · · · · · ·	
_	-	Supplying and stacking of good earth at site			Ι.]	
1	2.2	including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment) (15 cm removal) 40%	96.00	cum	332.55	485.79	46635.7
2	2.3	Supplying and stacking sludge/finesand at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).40%	148.00	cum	235.55	344.09	50925.5
3	2.4	Supplying and stacking at site dump manure from approved source, including carriage up to 1 km (manure measured in stacks will be reduced by 8% for payment): 20%			:		
	2.4.2	Screened through sieve of I.S. designation 16 mm	140.00	cum	192.05	280.55	39276.5
4	2.9	Mixing earth and studge or manure in the required proportion specified or directed	140.00	cum	21.35	31.19	4366.3
5	2.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%:1 part of stacked volume of earth after reduction by 20%:1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):					
\dashv	2.14.2	Holes 90 cm dia, and 90 cm deep	130.00	Nos	101.4	148.13	19256.2
6		Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded).	140.00	Cum	10.70	15.63	2188.278
7	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light waterning with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge	820.00	Sqm	203.90	297.86	- 244242.838
		TOTAL .					406891.52
		GST RATE 12%				·	48826.98
		GRAND TOTAL					455,718.51

25	16.88	Providing and laying mart finished vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement: 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.			6.00	35.00	
			1	6.00	6.00	36.00	Sqm
26		TACTILE TILES					
	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x4.8mm having with water absorption less than 0.5% and conforming to 15: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.					
			2	720.00	0.30	432.00	
	 -			 		432.00	sqm
27	15.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/taying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, complete all as per direction of Engineer-in-Charge.					
	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	2	12	3	72	
	<u> </u>					72	- Sqm
28	19.18	Supplying and fixing C.I. cover without frame for manholes :		 			ļ
28.1	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg					
	i — —		106	1		106	
	i		l "	l	1	106	Nos

COST ESTIMATE OF AMRUT PROJECT FOR WALKWAY DEVELOPMENT AT PAMBAYIMOOLA,KOCHI

		BILL OF QUANTITIES	-					
S.No.	DSR Item code	Description of work	No.	Length	Width	Height	Qty.	Unit
		SCHEDULE 2- LANDSCAPING-DSR 2016-	HORTIC	ULTURE				
1	1.2	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment) (15 cm removal) 40%	-					
			1	320	1	0.3	96.00	
			1	120	2	0.3	72.00	
				T			96.00	Cum
2	2.3	Supplying and stacking sludge/finesand at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment). 40%						
			1	148	2.00	0.50	148.00	1 . 7
				1		1	148.00	Cum
3	2.4	Supplying and stacking at site ritump manure from approved source, including carriage up to 1 km (manure measured in stacks will be reduced by 8% for payment): 20%						
	2.4.2	Screened through sieve of LS. designation 16 mm	1	140	2.00	0.50	140.00	
							140.00	Cum
4	2.9	Mixing earth and sludge or manure in the required proportion specified or directed	-					
			1	140	2.00	0.50	140.00	
							140.00	Cum

5		Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of		<u></u>				
		stacked volume of earth after reduction by 20%: 1 part of stacked volume						
		of manure after reduction by 8%) flooding with water, dressing including		ļ				
	ŀ	removal of rubbish and surplus earth, if any, with all leads and lifts (cost of						
	2.14	manure, sludge or extra good earth if needed to be paid for separately):				1		ĺ
	1	, ,						
						ł		
		. i		}				
				i	· ·			
				l <u> </u>				
	2.14.2	Holes 90 cm dia, and 90 cm deep	130				130.00	Nos
					1		130.00	<u> </u>
6		Filling mixture of earth and sludge or manure in the desired proportion in						1
	2.20	trenches, flooding with water and leveling (cost of supplying earth and			i	ļ	`	
	1	sludge or manure and mixing excluded).			<u>.</u>			
			1	140	2.00	0.50	140.00	
				<u> </u>			140.00	Cum
7		Providing and laying Neelgki/Mexican grass turf with earth 50mm to	,]			
		60mm			į		ĺ	
		thickness of existing ground prepared with proper level and ramming with			ļ			ļ
	1	tools wooden (Dhurmos) and than rolling the surface with light roller			İ]
	ŀ	make		l				
	2.33	the surface smoothen and light waterning with sprinkler and maintenance						
	j	for 30 days or more till the grass establish properly, as per direction of		i	·			
		officer-in-charge.						
	1	· ·				Į.		
	1					<u> </u>		
	1							
	T .		1	180	3		540.00	
			1	120	2		240.00	
			1	40	1		40.00	
						T 1	820.00	Sqm

BILL OF QUANTITIES 5.No. DSR Width Height Unit Item Description of work No. Length code Qty. **SCHEDULE 2- NON DSR ITEMS** Arlhant/Nilkamal or similar Type waste Bins 120-240 itr as per the direction of Engineer-in-charge 6 6.00 Nos 6.00 Supply of tree saplings at site of Height avg 150 cm height with Providing and supplying Ornamental Circular Steel Tree Guard with Welded mesh as per Item 11.17 of the IRC:SP:21-2009 (Guidelines on Landscaping and Tree Plantation - Indian Road Congress) 130 130.00 Mor 130.00 3 For providing street furnitures like benches and other seating ,waiting arrangements as per the direction of Engineer-In-charge.. 4 Nos 4 Providing and planting of shrubplants and ground cover of the genus: Bacopa, Wedelia, Meianthera, Pilea, Hopea, Pellionia, Plectranthus, Hemigraphis and other Westerna Ghats endemic genus as per the concept plan of the bidder all inclusive of the soft scape and hardscape work 1200 1200.00 Nos

		BILL OF QUANTITIES				
S.No.	DSR Item code	Description of work	No. or Qty	Unit	Rate	Amount
_		SCHEDULE 3-NON DSR ITEMS				
		WASTE BIN				·
1		Arihant/Nilkamal or similar Type waste Bins 120-240 ltr as per the direction of Engineer-in-charge	6.00	Nos	15364	92184.00
2		Supply of tree saplings at site of Height avg 150 cm height with Providing and supplying Ornamental Circular Steel Tree Guard with Welded mesh as per Item 11.17 of the IRC:SP: 21-2009 (Guidelines on Landscaping and Tree Plantation - Indian Road Congress)	130.00	Nos	1900	247000.00
3		For providing street furntiures like benches and other seating, walting arrangements as per the direction of Engineer-in-charge	4	Nos	18000	72000
4		Providing and planting of shrubplants and ground cover of the genus: Bacopa, Wedelia, Melanthera, Pilea, Hopea, Pellionia, Plectranthus, Hemigraphis and other Westerna	1200.00	Nos	200	240000.00
		TOTAL				651184.00
		GST RATE 12%				78142.08
		GRAND TOTAL				729,326.

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(OST ESTIMA	TE OF AMRUT PROJECT FOR WALKWAY DEVELOPMENT AT PAMBA	YIMOOLA,KOCHI
	·	BILL OF QUANTITIES	·
S.No.	DSR Item code	Description of work	Amount
	<u> </u>	SCHEDULE 5-MISCELLANEOUS	
1		ITEMS COVERED IN DSR 2016 BUT NOT MENTIONED IN THE ABOVE SCHEDULE (1 to 4)	100000.00
		Cost Index 46.08%	46080.00
		TOTAL	146080.00
-		GST RATE 12%	17529.60
	 	GRAND TOTAL	163,609.60

cos	1, F211IA	ATE OF AMRUT PROJECT FOR W	осні	 -	
		BILL OF QUANTITIES			
S.No.	DSR Item code	Description of work	No. or Qty.	Unit	Amount
	2002	SCHEDULE 4-UTILITY S	HIFTING		
1	<u> </u>	Utility Shifting	1	LS	146080.00
		Total			146080.00
		GST RATE 12%			17529.60
		GRAND TOTAL			163,609.60
		GRAND TOTAL			

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COST ESTIMATE OF AMRUT PROJECT FOR WALKWAY
DEVELOPMENT AT PAMBAYIMOOLA,KOCHI

	ABSTRACT OF ALL SCHEDULE		
S.No	Schedule	BOQ Amount	
1	Schedule -1 : Civil Works of Walkway DSR 2016	10,143,900.92	
2	Schedule -2: Landscaping DSR 2016	455,718.51	
3	Schedule -3: Non DSR Items	729,326.08	
4	Schedule -4 : Miscellaneous	163,609.60	
5	Schedule -5: Utility Shifting	163,609.60	
	TOTAL	11,656,164.70	
	SAY	₹ 11,656,165	

