

Greater Chennai Corporation

BRR Department - Schedules of Rates for the year 2020-21

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
1	BRR - 61	Earthwork Excavation And Deposting on Bank With Initial Lead of 10 m And Initial Lift of 2m In Hard Stiff Clay Stiff Black Hard Shales Muram Gravel Stony Earth And Earth Mixed With Small Size Boulders And Hard Gravelly Soil (SS 20A)	CUM	98.45	98.45	98.45
2	BRR - 76	Extra For Every Additional 10M Lead or Part There of Over The Initial Lead	CUM	11.25	11.25	11.25
3	BRR - 217	Providing Grouted Stone Apron(or) Revetment 30cm. Thick Including Supply of Rough Stone To Proper Shape of Size Laying In Position And Packing Properly Grouting To 23cm. Deep With Stone Jelly Concrete In C.C 1:3:6 Using 20mm Iss Size B.G. Metal And Pointing The Top Portion of Apron Or Revetment To 75mm Deep With cm. 1:3 Including Finishing To Preper Level Stoke Curing Etc. Complete	CUM	3917.20	3767.90	3598.75
4	BRR - 223	Gravel Backing For Revetment (15 cm Thick)	CUM	956.25	997.55	1169.45
5	BRR - 276 (A)	Refilling With Ex.Earth In Regular Layers of 150mm Thick Including Watering And Consolidation By Earth Rammer. Etc. Complete.	CUM	32.25	32.25	32.25
6	BRR - 605	Picking Existing Black Top Surface upto 2 to 5 cm	SQM	16.84	16.84	16.84
7	BRR - 606 A	Picking The Existing Metalled Surface to a Thickness of 50mm To 100mm Depth Labour Charges For Levelling And Sectioning And Removing Stacking The Metal For Reuse And As Directed By Engineers Etc. Complete As Per Standard Specification.	SQM	7.65	7.65	7.65
8	BRR - 608	Sectioning The Site And Levelling To Camber	SQM	5.05	5.05	5.05
9	BRR - 609	Sectioning The Site Including Cutting Heavy Undulation and Levelling Etc. Complete	SQM	16.10	16.10	16.10
10	BRR - 622	Soling With Gravel to a Consolidated Thickness of 100mm Thick Using 1.333 Cu.m of Gravel For An Area of 10 Sq.m Including Spreading Watering And Consolidation By Power Road Roller Etc. Complete	CUM	506.50	554.00	751.50
11	BRR - 654	Raising Or Lowering 45 cm.(or) 60 cm. Dia Cast Iron Man Hole Frames And Door Including Brick Work Second Class Table Boulded (Chamber Burnt) Brick of Size 9 X 4.3/8"X2.3/4" In cm. 1:3 With C.C 1:2:4 Using 20mm Irc Size B.G. Metal And Rendering Smooth The Top Surface With Cement Etc. Complete	NOS	3776.45	3723.80	3696.05
12	BRR - 673 (P)	Fixing C.C.Kerbs of Size 600X300X100 mm To Proper Level And Alignment Including Necessary Earthwork Pointing With cm.1:3 To Full Depth Curing Threadlining Etc. Complete(Excl. Cost of C.C. Krb)	MTR	132.80	132.75	132.70

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13	BRR - 673(S)	Fixing Irc Kerbs of Size 450X375X200 mm Including Earth Work And Fixing Proper Level And Alignment Incl. Pointing And Inserting The Joints With cm 1:3(6mm Thick) To Full Depth Curing Threadlining Etc. Complete(Excl. Cost of Kerb)	MTR	213.05	213.00	212.95
14	BRR - 676	Removing Cement Concrete Kerbs Clearing Away And Stacking The Same For Reuse	MTR	42.75	42.75	42.75
15	BRR - 676 (A)	Removing C.C Slab Clearing Away And Stacking The Same For Reuse	SQM	138.20	138.20	138.20
16	BRR - 678	Labour Charges For Fixing In Position C.C. Foot Path Kerbs (600 X 300X 100mm) To Proper Level And Alignment	MTR	66.05	66.05	66.05
17	BRR - 678 (A)	Labour Charges For Fixing Cement Concrete Slabs In Position To Proper Level And Alignment	SQM	208.15	208.15	208.15
18	BRR - 679	Pointing And Inserting The Joints (6mm Thick) With cm. 1:3 To Full Depth For C.Cslabs of 50 mm Thick Including Necessary Threadlining Curing of The Joints Pointed Etc. Complete	SQM	210.85	210.65	210.45
19	BRR - 679 (S)	Fixing C.C.Slab To Proper Level Including Pointing And Inserting The Joints (20mm Thick) With cm. 1:3 To Full Depth Including Making Groove of 12mm Dia In The Joints Curing Etc. Complete (Excluding Cost of C.C Slab)	SQM	432.50	432.00	431.35
20	BRR - 680	Pointing And Inserting The Joints With cm. 1:3 (6mm Thick) To Full Depth For Cement Concrete Kerb (600 X300X100 mm) Including Necessary Curing For The Joints Painted Etc. Complete.	SQM	208.50	208.40	208.25
21	BRR - 684 (A)	Providing And Laying Water Table 300X40mm In C.C 1:2:4 Using 20 mm Irc Size B.G. Metal And The Top Surface Rendered Smooth With Cement At 10Kg/10 Sq.m And Laying To Proper Level Thread Lining And Curing Etc. Complete	MTR	114.35	112.35	110.1
22	BRR - 684 (B)	Providing And Laying Water Table 250X40mm In C.C 1:2:4 Using 20 mm Irc Size B.G. Metal And The Top Surface Rendered Smooth With Cement At 10Kg/10 Sq.m And Laying To Proper Level Thread Lining And Curing Etc. Complete	MTR	95.30	93.65	91.75
23	BRR - 686 (R1)	Providing Water Table of Size 300X60mm In C.C. 1:2:4 Using 20mm Metal Including Rendering Smooth With Cement Curing Etc. Complete.	RM	153.55	150.55	147.15
24	BRR - 694 (B)	Removing Clearing Away And Stacking C.C Slab Refixing In Position And Pointing With cm. 1:3 To Full Depth (6mm Thick) Including Threadline Curing Etc. Complete	SQM	557.20	557.00	556.80
25	BRR - 694 (I)	Casting And Fixing In C.C Slabs of Size 450X450X50mm Including Pointing (6mm thick) With cm. 1:3 To Full Depth Thread Lining Curing Etc. Complete(Including Cost of CC Slabs)	SQM	971.750	963.300	953.350
26	BRR - 694 (P)	Fixing C.C.Slabs To Proper Level And Alignment Including Pointing (6mm Thick) With cm. 1:3 To Full Depth Thread Lining Curing Etc. Complete (Excluding Cost of Cc Slabs)	SQM	419.00	418.80	418.60

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27	BRR - 694 (R)	Fixing C.C. Slabs Including Pointing With cm.1:3 (6mm Thick) To Full Depth Curing Etc,Complete. (Excluding Cost of Slab)	SQM	418.95	418.80	418.55
28	BRR - GSB	Providing and Laying Granular sub base (GSB) by provided coarse graded material confirming to (table 400-1) mixing in a mechanical mix plant at OMC carriage of mixed material to work site spreading in uniform layers with motor grader on prepared surface and compacted with vibratory power roller to achieve the desired dry density to the required grade and cross slope as per drawings all others incidental charges etc.complete as per clause of 401 Morth Specification	CUM	1948.56	1792.65	1612.27
29	BRR - GSB1	Providing and Laying Granular sub base (GSB) by provided close graded material confirming to (table 400-1) mixing in a mechanical mix plant at OMC carriage of mixed material to work site spreading in uniform layers with motor grader on prepared surface and compacted with vibratory power roller to achieve the desired dry density to the required grade and cross slope as per drawings all others incidental charges etc.complete as per clause of 401 Morth Specification	CUM	2041.64	1884.64	1703.01
30	BRR - WMM(N)	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam 250 mm thick specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with pavers in Sub Base/ Base course on well prepared surface and compacting with vibratory roller to acheive the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5 (This Rate Is Applicable Only If Work Is Done During Night)	CUM	2342.80	2181.45	1994.75
31	BRR - WMM	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam 250 mm thick specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with pavers in Sub Base/ Base course on well prepared surface and compacting with vibratory roller to acheive the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5	CUM	2333.55	2172.25	1985.50
32	BRR - CMV	Cold Milling of Existing Asphalt Pavement to a Required Depth And The Milled Surface To Be Cleaned.	CUM	2150.00	2150.00	2150.00
33	BRR - CMA	Cold Milling to a Depth of 40mm	SQM	86.00	86.00	86.00
34	BRR - TC11	Providing and laying Prime Coat 7Kg/10 M2 With Bitumen Emulsion (Slow Setting) Including Cost of Bitumen emulsion At The Site Including Labour Charges For Preparing The Surface And Applying Required Quantity of Bitumen Emulsion As Prime Coat Using Bitumen Sprayer Etc. Complete Over Wet Mix Macadam As Per Clause 502 of Mort & H Specifications.	SQM	53.00	53.00	53.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
35	BRR - TC11(N)	Providing and laying Prime Coat 7Kg/10 M2 With Bitumen Emulsion (Slow Setting) Including Cost of Bitumen emulsion At The Site Including Labour Charges For Preparing The Surface And Applying Required Quantity of Bitumen Emulsion As Prime Coat Using Bitumen Sprayer Etc. Complete Over Wet Mix Macadam As Per Clause 502 of Mort & H Specifications. (This rate is applicable only if the work is carried out during Night.)	SQM	57.50	57.50	57.50
36	BRR - TC12	Providing and laying Tack Coat 2.5 kg/10 m2 with Bitumen Emulsion (Rapid Setting 1)including cost of bitumen emulsion at the site, including labour charges for preparing the surface and applying required quantity of bitumen emulsion as Tack Coat using bitumen sprayer etc., complete over the primed surface as per clause 503 of MoRT& H Specifications Rev.5	SQM	11.05	11.05	11.05
37	BRR - TC12 (N)	Providing and laying Tack Coat 2.5 kg/10 m2 with Bitumen Emulsion (Rapid Setting 1)including cost of bitumen emulsion at the site, including labour charges for preparing the surface and applying required quantity of bitumen emulsion as Tack Coat using bitumen sprayer etc., complete over the primed surface as per clause 503 of MoRT& H SpecificationsRev.5 (This rate is applicable only if the Work is carried out during NIGHT)	SQM	11.60	11.60	11.60
38	BRR - TC13	Providing and laying Tack coat over the existing bituminous surface using 2.0 kgs of bitumen emulsion (Rapid Setting 1) per 10 Sq.m area including cost of bitumen emulsion at the site, including labour charges for preparing the surface, and applying the required quantity of bitumen emulsion as Tack Coat using bitumen sprayer etc., complete as per Clause 503 of MoRT&H Specifications Rev.5	SQM	16.70	16.70	16.70
39	BRR - TC13(N)	Providing and laying Tack coat over the existing bituminous surface using 2.0 kgs of bitumen emulsion (Rapid Setting 1) per 10 Sq.m area including cost of bitumen emulsion at the site, including labour charges for preparing the surface, and applying the required quantity of bitumen emulsion as Tack Coat using bitumen sprayer etc., complete as per Clause 503 of MoRT&H Specifications Rev.5 (This rate is applicable only if the Work is carried out during NIGHT)	SQM	18.25	18.25	18.25
40	BRR - TC14	Providing And Laying Tackcoat Over The Existing Concrete Surface Using 3.0 Kgs of Bitumen Emulsion (Rapid Setting 1) Per 10 Sqm Area Including Cost of Bitumen At The Site Including Labour Charges For Preparing The Surface And Applying The Required Quantity of Bitumen Emulsion As Tack Coat Using Bitumen Sprayer Etc. Complete As Per Clause 503 of Mort &H Specifications.	SQM	11.65	11.65	11.65
41	BRR - TC14 (N)	Providing And Laying Tackcoat Over The Existing Concrete Surface Using 3.0 Kgs of Bitumen Emulsion (Rapid Setting 1) Per 10 Sqm Area Including Cost of Bitumen At The Site Including Labour Charges For Preparing The Surface And Applying The Required Quantity of Bitumen Emulsion As Tack Coat Using Bitumen Sprayer Etc. Complete As Per Clause 503 of Mort &H Specifications (This Rate Is Applicable Only If The Work Is Carried Out During Night)	SQM	13.15	13.15	13.15

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42	BRR - DBMC1(9m) (V)	Providing and laying 50mm consolidated thick Dense Bituminous Macadam using 0.24 cum of 26.50-13.20mm, 0.25cum of 13.20-2.36mm and 0.23cum of 2.36mm & below and with 53.20 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5 [The Rate Is Applicable Only If It Is Laid By 9M Paver Finisher]	SQM	396.60	387.80	377.65
43	BRR - DBMC1 (N-9m)(V)	Providing and laying 50mm consolidated thick Dense Bituminous Macadam using 0.24 cum of 26.50-13.20mm, 0.25cum of 13.20-2.36mm and 0.23cum of 2.36mm & below and with 53.20 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5 [The Rate Is Applicable Only if the work is carried out during Night and It Is Laid By 9M Paver Finisher]	SQM	401.10	392.30	382.10
44	BRR - DBMC8 (9m) (V)	Providing and laying 75mm consolidated thick Dense Bituminous macadam using 0.40 cum for 37.50-13.20mm, 0.35 cum of 13.20-2.36mm and 0.36 cum of 2.36mm & below size IRC metal with 71.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 75mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 tonne CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 of MORTH rev-5.[The Rate Is Applicable Only If It Is Laid By 9M Paver Finisher].	CUM	7463.60	7282.95	7073.55

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45	BRR - DBMC8 (N-9m) (V)	Providing and laying 75mm consolidated thick Dense Bituminous macadam using 0.40 cum for 37.50-13.20mm, 0.35 cum of 13.20-2.36mm and 0.36 cum of 2.36mm & below size IRC metal with 71.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 75mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 tonne CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 of MORTH rev-5. (This Rate Is Applicable Only If The Work Is Carried Out During Night And If It Is Laid By 9M Paver Finisher).	CUM	7535.65	7354.25	7144.90
46	BRR - BCCMP (9m) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 [The Rate Is Applicable Only If It Is Laid By 9M Paver Finisher].	SQM	337.05	330.20	322.30
47	BRR - BCCMP (N-9m) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night And If It Is Laid By 9M Paver Finisher).	SQM	341.55	334.70	326.75

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48	BRR - BCCMP (VG40) (9m) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 [The Rate Is Applicable Only If It Is Laid By 9M Paver Finisher].	SQM	339.57	332.73	324.81
49	BRR - BCCMP (VG40) (N-9m) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night And If It Is Laid By 9M Paver Finisher).	SQM	344.07	337.23	329.31
50	BRR - DBMC1 (V)	Providing and laying 50mm consolidated thick Dense Bituminous Macadam using 0.24 cum of 26.50-13.20mm, 0.25cum of 13.20-2.36mm and 0.23cum of 2.36mm & below and with 53.20 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5	SQM	380.10	371.30	361.15

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51	BRR - DBMC1 (N) (V)	Providing and laying 50mm consolidated thick Dense Bituminous Macadam using 0.24 cum of 26.50-13.20mm, 0.25cum of 13.20-2.36mm and 0.23cum of 2.36mm & below and with 53.20 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night)	SQM	384.60	375.80	365.60
52	BRR - DBMC8 (V)	Providing and laying 75mm consolidated thick Dense Bituminous macadam using 0.40 cum for 37.50-13.20mm, 0.35 cum of 13.20-2.36mm and 0.36 cum of 2.36mm & below size IRC metal with 71.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 75mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 tonne CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 of MORTH rev-5.	CUM	7134.25	6953.55	6744.20
53	BRR - DBMC8 (N) (V)	Providing and laying 75mm consolidated thick Dense Bituminous macadam using 0.40 cum for 37.50-13.20mm, 0.35 cum of 13.20-2.36mm and 0.36 cum of 2.36mm & below size IRC metal with 71.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 75mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 tonne CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 of MORTH rev-5.(This Rate Is Applicable Only If The Work Is Carried Out During Night).	CUM	7206.25	7025.55	6816.20

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54	BRR - BCCMP (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm,0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5	SQM	323.95	317.10	309.20
55	BRR - BCCMP (N) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm,0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night).	SQM	328.40	321.60	313.65
56	BRR - BCCMP (VG40) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm,0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5	SQM	326.44	319.6	311.68

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
57	BRR - BCCMP (VG40) (N) (V)	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 . (This Rate Is Applicable Only If The Work Is Carried Out During Night).	SQM	330.94	324.09	316.17
58	BRR - BCCMP1 (V)	Providing and laying Bituminous Concrete to 30 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5	SQM	242.95	237.85	231.90
59	BRR - BCCMP1 (N) (V)	Providing and laying Bituminous Concrete to 30 mm thick using 0.13 cum of 19.00-9.50mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5 . (This Rate Is Applicable Only If The Work Is Carried Out During Night).	SQM	246.35	241.20	235.30

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
60	BRR - BCMHP (V)	Providing And Laying Bituminous Concrete 40mm Thick Using 0.2089 Cu.m of 13.2-10mm Metal 0.1372 Cu.m of 10-5mm Metal 0.2387 Cu.m of 5mm And Below Metal of Specified Grading Aggregates And 0.012 Cu.m of Quarry Dust With 50.3 Kg of Vg30 (60/70 Grade) Bitumen For Premixing Per 10Sq.m Including Cost And Conveyance of All Materials to Work Site And Stacking Them On Road Side To Standard Departmental Metric Gauge For Pre-Measurement Heating The Bitumen In Bitumen Boiler Heating The Aggregates And Mixing Them With Bitumen In Mini Hot Mix Plant Spreading The Mix In The Required Temperature For Uniform Thick of 40mm Over A Previously Prepared Surface To Specified Grade And Cross Section And Consolidated By 8-10 Tonne Vibratory Roller To The Required Density Including Labour Charges Spreading Etc. Including Hire Charges For Machineries And All Other Tools Including Fuel And All Other Incidental Charges Etc. Complete As Per Clause 507 of Morth Rev-5	SQM	315.20	308.35	300.45
61	BRR - BCMHP (N) (V)	Providing And Laying Bituminous Concrete 40mm Thick Using 0.2089 Cu.m of 13.2-10mm Metal 0.1372 Cu.m of 10-5mm Metal 0.2387 Cu.m of 5mm And Below Metal of Specified Grading Aggregates And 0.012 Cu.m of Quarry Dust With 50.3 Kg of Vg30 (60/70 Grade) Bitumen For Premixing Per 10Sq.m Including Cost And Conveyance of All Materials to Work Site And Stacking Them On Road Side To Standard Departmental Metric Gauge For Pre-Measurement Heating The Bitumen In Bitumen Boiler Heating The Aggregates And Mixing Them With Bitumen In Mini Hot Mix Plant Spreading The Mix In The Required Temperature For Uniform Thick of 40mm Over A Previously Prepared Surface To Specified Grade And Cross Section And Consolidated By 8-10 Tonne Vibratory Roller To The Required Density Including Labour Charges Spreading Etc. Including Hire Charges For Machineries And All Other Tools Including Fuel And All Other Incidental Charges Etc. Complete As Per Clause 507 of Morth Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night).	SQM	324.25	317.40	309.50
62	BRR - BIMA1 (V)	Providing And Laying 50mm Consolidated Thick Bituminous Macadam Using 0.283 Cu.m of 25-10mm Metal 0.283 Cu.m of 10-5mm Metal 0.1415 Cu.m of 5mm And Below Size Irc Metal With 37 Kgs of Vg30 (60/70 Grade) Bitumen For Premixing Per 10Sq.m Including Cost And Conveyance of All Materials to Work Site And Stacking Them On Road Side To Standard Departmental Metric Gauge For Pre-Measurement Heating The Bitumen In Bitumen Boiler Heating The Aggregates And Mixing Them With Bitumen In Mini Hot Mix Plant Spreading The Mix In The Required Temperature For Uniform Thick of 50mm Over A Previously Prepared Surface To Specified Grade And Cross Section And Consolidated By 8-10 Tonne Vibratory Roller To The Required Density Including Labour Charges Spreading Etc. Including Hire Charges For Machineries And All Other Tools Including Fuel And All Other Incidental Charges Etc. Complete As Per Clause 504 of Morth Rev-5	SQM	308.40	299.70	289.65

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
63	BRR - BIMA1 (N) (V)	Providing And Laying 50mm Consolidated Thick Bituminous Macadam Using 0.283 Cu.m of 25-10mm Metal 0.283 Cu.m of 10-5mm Metal 0.1415 Cu.m of 5mm And Below Size Irc Metal With 37 Kgs of Vg30 (60/70 Grade) Bitumen For Premixing Per 10Sq.m Including Cost And Conveyance of All Materials to Work Site And Stacking Them On Road Side To Standard Departmental Metric Gauge For Pre-Measurement Heating The Bitumen In Bitumen Boiler Heating The Aggregates And Mixing Them With Bitumen In Mini Hot Mix Plant Spreading The Mix In The Required Temperature For Uniform Thick of 50mm Over A Previously Prepared Surface To Specified Grade And Cross Section And Consolidated By 8-10 Tonne Vibratory Roller To The Required Density Including Labour Charges Spreading Etc. Including Hire Charges For Machineries And All Other Tools Including Fuel And All Other Incidental Charges Etc. Complete As Per Clause 504 of Morth Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night)	SQM	317.40	308.75	298.70
64	BRR - BMCM2 (V)	Providing and laying 50mm consolidated thick bituminous macadam using 0.20 cum for 26.50-13.20mm, 0.43 cum of 13.20-2.36mm and 0.08 cum of 2.36mm & below size IRC metal with 37 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 50mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 504 of MORTH Rev-5	SQM	329.95	321.25	311.20
65	BRR - BMCM2 (N) (V)	Providing and laying 50mm consolidated thick bituminous macadam using 0.20 cum for 26.50-13.20mm, 0.43 cum of 13.20-2.36mm and 0.08 cum of 2.36mm & below size IRC metal with 37 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 50mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, paver finisher, Vibratory roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 504 of MORTH Rev-5 (This Rate Is Applicable Only If The Work Is Carried Out During Night)	SQM	334.40	325.75	315.70

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
66	BCMHP1(V)	Providing and laying Bituminous Concrete 30mm thick using 19 – 9.50 mm metal, 9.5-2.36 mm Metal, 2.36 mm and below Metal of specified grading aggregates and Quarry Dust with 37.73 kg of VG30 (60/70 grade) bitumen for premixing per 10sq.m including cost and conveyance of all materials to work site and stacking them on road side to standard departmental metric gauge for pre-measurement, heating the bitumen in bitumen boiler heating the aggregates and mixing them with bitumen in mini hot mix plant, spreading the mix in the required temperature for uniform thick of 30mm over a previously prepared surface to specified grade and cross section and compaction by power roller, including labour charges, spreading etc., including Hire charges for machineries etc., complete as per clause 509 of MoRT & H Specifications to achieve the desired compaction	SQM	236.40	231.30	225.35
67	BRR - BCMHP1(N) (V)	Providing and laying Bituminous Concrete 30mm thick using 19 – 9.50 mm metal, 9.5-2.36 mm Metal, 2.36 mm and below Metal of specified grading aggregates and Quarry Dust with 37.73 kg of VG30 (60/70 grade) bitumen for premixing per 10sq.m including cost and conveyance of all materials to work site and stacking them on road side to standard departmental metric gauge for pre-measurement, heating the bitumen in bitumen boiler heating the aggregates and mixing them with bitumen in mini hot mix plant, spreading the mix in the required temperature for uniform thick of 30mm over a previously prepared surface to specified grade and cross section and compaction by power roller, including labour charges, spreading etc., including Hire charges for machineries etc., complete as per clause 509 of MoRT & H Specifications to achieve the desired compaction (This rate is applicable only if the Work is carried out during NIGHT)	SQM	237.10	231.95	226.05
68	BRR - CCS1	Manufacturing of C.C. Slab of Size 450 X450 X50 mm In C.C. 1:2:4 Using 20mm I ss Size B.G. Broken Stone Curing Etc. Complete	NOS	110.55	108.90	106.95
69	BRR - CM(DG)1	Providing And Fixing All Side Machine Cut Granite Stone Using 0.6M Height 0.100M Thick And 1.0M Length Granite Stone Without Fragmentation For Centre Median Including Cost And Conveyance of Granite Kerb From Available Source To Work Site Including Labour Charges For Fixing The Granite And Pointing With cm. 1:3 And All Other Incidental Charges Etc. Complete.	MTR	2316.80	2316.55	2316.30
70	BRR - CM(DG)2	Providing And Fixing All Side Machine Cut Granite Stone Using 0.75M Height 0.100M Thick And 1.0M Length Granite Stone Without Fragmentation For Centre Median Including Cost And Conveyance of Granite Kerb From Available Source To Work Site Including Labour Charges For Fixing The Granite And Pointing With cm. 1:3 And All Other Incidental Charges Etc. Complete.	MTR	3000.80	3000.55	3000.30
71	BRR - CRMCM	Providing Course Rubble Masonry In Cement Mortar 1:5 With Simultaneous Pointing Using Rubble Stone And Bond Stones Properly bonding Including Cost And Conveyance of All Materials To Work Site Including Cost of Cement Including Labour Charges For Mixing The Cement Mortar And Laying The Stones In Correct Position As Directed , Including Watering With All Leads For Soft Potable Water for Curing And All Other Incidental Charges Etc. Complete As Per Specifications For Centre Median	CUM	4750.60	4577.05	4376.20

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
72	BRR - DGSL1	Providing And Laying 3 Line Hand Dressed Granite On Top With Machine Cut On All Other Sides (50mm Thick) Granite Slab Over Cement Mortar 1:3 For Platform (Pavement) Flooring Including Cost And Conveyance of Granite From Available Source Including Labour Charges For Fixing The Slab In Position To The Line Level And Gradient Including Pointing With cm.1:3 And All Other Incidental Charges Etc. Complete.	SQM	2341.15	2337.85	2334.05
73	BRR - DGSL2	Providing And Fixing Machine Dressed Grey Granite Slab All Sides Machine Cut of Size 0.60 M X 0.60 M Size And 50 mm Thick Granite Slabs For Platform(Pavement) Including Cost And Conveyance of Granite From Available Source Including Labour Charges For Fixing The Slab In Position To The Line Level And Gradient Including Pointing With cm.1:3 And All Other Incidental Charges Etc. Complete	SQM	3212.65	3209.35	3205.55
74	BRR - GPC(RM)K	Supplying And Fixing of Rubber Moulded Grey Premium Concrete Kerb of Size 450X125X300mm Using M30 Concrete. The Concrete Shall Be Moulded By Table Mount Vibrated With Polypropylene Fibers At 5% And Curing Compound. The Rate Shall Include Cost of Materials Transportation Loading Unloading Charges And All Taxes Including Necessary Earth Work Pointing With cm. 1:3 To Full Depth Curing Thread Lining Etc Complete .	MTR	690.75	690.70	690.65
75	BRR - GPC(RM) P	Supplying And Fixing of Rubber Moulded Grey Premium Concrete Pavers of Size 200X200X65mm Using M30 Concrete Placed Over 50mm Thick Crushed Stone Sand (M Sand). The Concrete Shall Be Moulded By Table Mount Vibrated With Polypropylene Fibers At 5% And Curing Compound. The Rate Shall Include Cost of Materials Transportation Loading Unloading Charges And All Taxes Including Filling of All Joints With Labour Charges Etc.	SQM	1067.35	1061.25	1054.15
76	BRR - ILP R50	Supplying And Fixing Rubber Moulded Interlocking Blocks Against Available Edge Restraints 50 mm Thick of Approved Design And Pattern of Strength 25 N/Sq.m. 10 mm Iss Metal With Minimum Cement Content As Applicable To M 25 Grade Concrete As Per Is-456-2000 Manufactures By Mechanical Or Hydraulic Machine Using Vibro-Compaction Process And Laid Over 50 mm Thick Laying Course (Bedding) Crushed Stone Sand (M Sand) Well Compacted By Plate Compactor With A Joint Width of 2 mm To 5 mm Including Filling of All Joints With Crushed Stone Sand (M Sand) And Compacting The Paved Surface With Plate Compactor Two Or Three Times Until All The Unit-To-Unit Joints Are Completely Filled With Crushed Stone Sand (M Sand) And Trimming The Edges Neatly Including All Labour Charges And Plate Compactor Charges Etc. Complete(Cost Inclusive of Crushed Stone Sand (M Sand)).	SQM	721.54	707.18	690.56

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
77	BRR - ILP R60	Supplying And Fixing Rubber Moulded Interlocking Blocks Against Available Edge Restraints 60 mm Thick of Approved Design And Pattern of Strength 30 N/Sq.m. 10 mm Iss Metal With Minimum Cement Content As Applicable To M 30 Grade Concrete As Per Is-456-2000 Manufactures By Mechanical Or Hydraulic Machine Using Vibro-Compaction Process And Laid Over 50 mm Thick Laying Course (Bedding) Crushed Stone Sand (M Sand) Well Compacted By Plate Compactor With A Joint Width of 2 mm To 5 mm Including Filling of All Joints With Crushed Stone Sand (M Sand) And Compacting The Paved Surface With Plate Compactor Two Or Three Times Until All The Unit-To-Unit Joints Are Completely Filled With Crushed Stone Sand (M Sand) And Trimming The Edges Neatly Including All Labour Charges And Plate Compactor Charges Etc. Complete(Cost Inclusive of Crushed Stone Sand (M Sand)).	SQM	808.59	792.58	774.05
78	BRR - ILP R80	Supplying And Fixing Rubber Moulded Interlocking Blocks Against Available Edge Restraints 80 mm Thick of Approved Design And Pattern of Strength 40 N/Sq.m. 10 mm Iss Metal With Minimum Cement Content As Applicable To M 40 Grade Concrete As Per Is-456-2000 Manufactures By Mechanical Or Hydraulic Machine Using Vibro-Compaction Process And Laid Over 50 mm Thick Laying Course (Bedding) Crushed Stone Sand (M Sand) Well Compacted By Plate Compactor With A Joint Width of 2 mm To 5 mm Including Filling of All Joints With Crushed Stone Sand (M Sand) And Compacting The Paved Surface With Plate Compactor Two Or Three Times Until All The Unit-To-Unit Joints Are Completely Filled With Crushed Stone Sand (M Sand) And Trimming The Edges Neatly Including All Labour Charges And Plate Compactor Charges Etc. Complete(Cost Inclusive of Crushed Stone Sand (M Sand)).	SQM	989.41	970.11	947.76
79	BRR - ILP 50	Supplying And Fixing Interlocking Blocks Against Available Edge Restraints 50 mm Thick of Approved Design And Pattern of Strength 25 N/Sq.m. 10 mm Iss Metal With Minimum Cement Content As Applicable To M 25 Grade Concrete As Per Is-456-2000 Manufactures By Mechanical Or Hydraulic Machine Using Vibro-Compaction Process And Laid Over 50 mm Thick Laying Course (Bedding) Crushed Stone Sand (M Sand) Well Compacted By Plate Compactor With A Joint Width of 2 mm To 5 mm Including Filling of All Joints With Crushed Stone Sand (M Sand) And Compacting The Paved Surface With Plate Compactor Two Or Three Times Until All The Unit-To-Unit Joints Are Completely Filled With Crushed Stone Sand (M Sand) And Trimming The Edges Neatly Including All Labour Charges And Plate Compactor Charges Etc. Complete(Cost Inclusive of Crushed Stone Sand (M Sand)).	SQM	671.55	657.20	640.60

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
80	BRR - ILP 60	Supplying And Fixing Interlocking Blocks Against Available Edge Restraints 60 mm Thick of Approved Design And Pattern of Strength 30 N/Sq.m. 10 mm Iss Metal With Minimum Cement Content As Applicable To M 30 Grade Concrete As Per Is-456-2000 Manufactures By Mechanical Or Hydraulic Machine Using Vibro-Compaction Process And Laid Over 50 mm Thick Laying Course (Bedding) Crushed Stone Sand (M Sand) Well Compacted By Plate Compactor With A Joint Width of 2 mm To 5 mm Including Filling of All Joints With Crushed Stone Sand (M Sand) And Compacting The Paved Surface With Plate Compactor Two Or Three Times Until All The Unit-To-Unit Joints Are Completely Filled With Crushed Stone Sand (M Sand) And Trimming The Edges Neatly Including All Labour Charges And Plate Compactor Charges Etc. Complete(Cost Inclusive of Crushed Stone Sand (M Sand)).	SQM	748.60	732.60	714.05
81	BRR - ILP 80	Supplying And Fixing Interlocking Blocks Against Available Edge Restraints 80 mm Thick of Approved Design And Pattern of Strength 40 N/Sq.m. 10 mm Iss Metal With Minimum Cement Content As Applicable To M 40 Grade Concrete As Per Is-456-2000 Manufactures By Mechanical Or Hydraulic Machine Using Vibro-Compaction Process And Laid Over 50 mm Thick Laying Course (Bedding) Crushed Stone Sand (M Sand) Well Compacted By Plate Compactor With A Joint Width of 2 mm To 5 mm Including Filling of All Joints With Crushed Stone Sand (M Sand) And Compacting The Paved Surface With Plate Compactor Two Or Three Times Until All The Unit-To-Unit Joints Are Completely Filled With Crushed Stone Sand (M Sand) And Trimming The Edges Neatly Including All Labour Charges And Plate Compactor Charges Etc. Complete(Cost Inclusive of Crushed Stone Sand (M Sand)).	SQM	909.45	890.10	867.80
82	BRR - KERB (DG)1	Providing And Fixing All Side Machine Cut Granite Stone Kerbs Using 0.30M Height 0.100M Thick And 0.6M Length Granite Stone Kerb Without Fragmentation For Platform Kerbs Including Cost And Conveyance of Granite Kerb From Available Source To Work Site Including Labour Charges For Fixing The Granite And Pointing With cm. 1:3 And All Other Incidental Charges Etc. Complete	MTR	1720.80	1720.55	1720.30
83	BRR - KERB (DG)2	Providing And Fixing All Side Machine Cut Granite Stone Kerbs Using 0.40M Height 0.100M Thick And 0.6M Length Granite Stone Kerb Without Fragmentation For Platform Kerbs Including Cost And Conveyance of Granite Kerb From Available Source To Work Site Including Labour Charges For Fixing The Granite And Pointing With cm. 1:3 And All Other Incidental Charges Etc. Complete.	MTR	2200.80	2200.55	2200.30
84	BRR - KERB2	Pointing And Inserting The Joints of C.C Foot Path Kerb of Size 450X375X200mm With cm.1:3 To Full Depth Curing Etc Complete	SQM	216.45	216.10	215.75
85	BRR - LCC1	Laying C.C 1:4:8 Using 40 M.m. Irc Size B.G. Metal Including Curing Ramming Etc. Complete	CUM	4946.30	4781.30	4590.35

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
86	BRR - LDGSL	Providing 3 Line Dressed Granite Slab Flooring Using 0.60 M X 0.60 M Size 50 mm To 70 mm Thick Granite Slabs For Platform (Pavement) Flooring Including Labour Charges For Fixing The Slab Over Cement Mortar 1:3 In Position To The Line Level And Gradient And Pointing With cm 1:3 Cost Inclusive of All Labour Charges Cement Mortar Etc. Complete (Excluding Cost of Granite Slab)	SQM	556.15	552.85	549.05
87	BRR - LKERB	Labour Charges For Fixing Machine Cut Granite Stone Kerbs of 0.45M Height And 0.125M Thick Granite Stone Kerb Including Labour Charges For Fixing The Granite And Pointing With cm 1:3. Cost Inclusive of All Labour Charges Cement Mortar Etc. Complete (Excluding Cost of Granite Kerb)	RM	160.80	160.55	160.30
88	BRR - MASA1	Providing And Laying Mastic Asphalt 25 mm Compacted Thick Using 13.2 mm Irc Metal Quarry Dust Lime (Shell Lime) With 80 Kg of VG40 Grade Bitumen Including Cost And Conveyance of All Materials To Site Including Labour Charges Etc. And Including Hire Charges And Fuel Charges For Machineries And All Other Tools And Plants Required Including All Other Incidental Charges Etc. Complete As Per Specification Clause 515 of Mort & H	SQM	986.10	982.65	978.70
89	BRR - MASA1 (N)	Providing And Laying Mastic Asphalt 25 mm Compacted Thick Using 13.2 mm Irc Metal Quarry Dust Lime (Shell Lime) With 80 Kg of VG40 Grade Bitumen Including Cost And Conveyance of All Materials To Site Including Labour Charges Etc. And Including Hire Charges And Fuel Charges For Machineries And All Other Tools And Plants Required Including All Other Incidental Charges Etc. Complete As Per Specification Clause 515 of Mort & H(If Workdone During Night)	SQM	1016.25	1012.85	1008.85
90	BRR - RECCS	Pointing (6mm) With Red Oxide Dry Powder And Cement Mortar 1:3 For Red Oxide Cc Slabs Including Mixing 1.34 Kg/10Sq.m of Red Oxide Dry Powder of Superior Quality Curing Etc. Complete	SQM	229.30	229.25	229.20
91	BRR - RSLAB1	Prepresed Red Oxide Hexagonal Slabs of Size 125mm Each Side And 50mm Thick In C.C 1:2.5:3.5 Using 12mm Iss Size B.G Metal And Renduring Smooth With Cement At 10Kg 5Kg of Red Oxide Dry Powder For 10Sq.m Including Curing Etc. Complete	NOS	26.70	26.40	26.15
92	BRR - RSLAB2	Pointing And Inserting The Joints of Red Oxide Hexagenal Slabs of Size 125mm Each Side And 50mm Thick In cm.1:3 And Mixed With 1.34 Kg of Red Oxide Dry Powder Including Curing Etc. Complete	SQM	239.10	238.90	238.85
93	BRR - RSS2	Rendering Smooth With Cement At 10Kg/10 Sq.m.Incl. Labour For Curing Etc. Complete	SQM	5.80	5.80	5.80
94	BRR - SFQR	Providing Quarry Rubbish From Approved Quarry Including Cost And Conveyance of All Materials To Work Site All Labour For Spreading. Watering Compacting Etc. Complete.	CUM	767.85	626.10	462.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
95	BRR - SPBR1	Providing Speed Breakers As Per IRC Design [Clause 5 6 of Irc: 99-1988] With Bituminous Concrete (As Per Clause 509 of Mort&H Specification) To The Required Grade Level And Alignment And Rolled With Vibratory Roller Etc. Complete And As Directed By Engineers And As Per The Plan Enclosed for Bus Route Roads	RM	3714.60	3654.75	3585.45
96	BRR - SPBR2	Providing Speed Breakers As Per IRC Design [Clause 5 6 of Irc: 99-1988] With Bituminous Concrete (As Per Clause 509 of Mort&H Specification) To The Required Grade Level And Alignment And Rolled With Vibratory Roller Etc. Complete And As Directed By Engineers And As Per The Plan Enclosed for Interior Roads	RM	2451.10	2413.45	2369.90
97	BRR - CUT CON	Providing & Cutting of transverse const. dummy joints of C.C.Slab for a depth of 100mm and a width of 6mm etc., including surface texturing	RM	80.00	80.00	80.00
98	BRR - PSS	Providing Two – Part Polysulphide sealant in the expansion joints of concrete to a thickness of 3mm including cost of the material, laying etc., complete as per the specifications and as directed by the Engineer and confirming to MORT&H having superior UV and fuel attack resistance.	RM	130.00	130.00	130.00
99	BRR - DWCCD	Supplying and laying Double Walled Corrugated casing duct of size 200mm Outer dia and 170mm inner dia made from High density Polyethylene material confirming to IS 14939 Part-II 2001	MTR	460.00	460.00	460.00
100	BRR - CUT DG	Cutting bituminous concrete / Cement concrete surface of 300mm thick and width of 300mm using machineries (Jack Hammer) including hire charges of machineries and labour charges etc. complete.	RM	170.00	170.00	170.00
101	BRR - PoTro	Finishing the Concrete surface of various grades using Power Trowel including hire charges of Power Trowel, fuel charges, labour charges etc., complete.	SQM	13.00	13.00	13.00
102	BRR - CM1-SSP50	Supplying and fabricating of stainless steel pipe 50mm dia (14gauge) 316 grade with base plate and clamp fixing including polishing and generator charges etc.	RM	1390.00	1390.00	1390.00
103	BRR - CM1-SSP40	Supplying and fabricating of stainless steel pipe 40mm dia (14gauge) 316 grade with base plate and clamp fixing including polishing and generator charges etc.	RM	1100.00	1100.00	1100.00
104	BRR - CM1-SSP25	Supplying and fabricating of stainless steel pipe 25mm dia (14gauge) 316 grade with side cut fabrication for joining into 40mm dia pipe and welding charges including polishing and generator charges etc.	RM	745.00	745.00	745.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
105	BRR - CM2-SSP50	Supplying and fabricating of stainless steel pipe 50mm dia (14gauge) 304 grade with baseplate and clamp fixing including polishing and generator charges etc.	RM	1100.00	1100.00	1100.00
106	BRR - CM2-SSP40	Supplying and fabricating of stainless steel pipe 40mm dia (14gauge) 304 grade with baseplate and clamp fixing including polishing and generator charges etc.	RM	875.00	875.00	875.00
107	BRR - CM2-SSP25	Supplying and fabricating of stainless steel pipe 25mm dia (14gauge) 304 grade with side cut fabrication for joining into 40mm dia pipe and welding charges including polishing and generator charges etc.	RM	590.00	590.00	590.00
108	BRR - M15	Providing And Laying Plain Cement Concrete Grade M15 (Nominal Mix) Using 20mm And Down Graded Iss Hard Broken Granite Metal Including Cost And Conveyance of All Materials To Site Including Costs of Crushed Stone Sand (M Sand), Cement And Labour Charges For Laying Compacting And Pumping Charges Curing And All Other Incidental Chrages Etc Complete In Accordance With Is 456 - 2954	CUM	7453.61	7280.58	7083.43
109	BRR - M20	Providing And Laying In Position, Standarded Concrete Mix M-20 Grade In Accordance With Is:456-2954 Using 20mm Ond Down Graded Hard Broken Granito Stone Jelly For All Rcc Items of Works With Minimum Cement Content of 325 Kg/M3 And Maximum Water Cement Ratio of 0.55, Including Admixture (Plasticiser / Super Plasticiser) In Recommended Proportions As Per Is:9103 to accelerate, Retard Setting of Concrete, Improve Workabilly Without Impairing Strength And Durability With About (5 Cu.In.) 7730 Kg. of 20mm Machine Crushedstone Jelly And With About (3.3 Cum.) 5150 Kg. of 10-12mm Machine Crushed Stone Jelly And With About (4.79 Cu.m.) 7670 Kg. of Crushed Stone Sand (M Sand), But Excluding Cost of Reinforcement Grill And Fabricating Charges, Centering And Shuttering And Also Including Laying, Vibrating With Mechanical Vibrators, Finishing, Curing and including pumping charges Etc. And Providing Fixtures Like Fan Clamps In The Rcc Floor/ Roof Slabs Wherever Necessary Without Claiming Extra, Etc., Complete Complying With Standard Specification And As Directed By The Departmental, Officers. The Coarse And Fine Aggregates To Be Used Should Comply With The Requirements of Is Standards. (No Separate Payment Will Bemade By The Department For The Excess Usage of Materials)	CUM	7728.73	7559.42	7367.13

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
110	BRR - M25	Providing And Laying In Position, Standarded Concrete Mix M-25 Grade In Accordance With Is:456-2000, Using 20mm And Down Graded Hard Broken Granite Stone Jelly For All Rcc Iterns of Works With Minimum Cement Content of 350 Kg/M3 And Maximum Water Cement Ratio of 0.50, Including Admixture (Plastidser Super Plastidser)In Recommended Proportions As Per Is 9103 to accelerate, Retard Setting of Concrete, Improve Workability Without Impairing Strength And Durability With About (5.0 cm.) 7730 Kg. of 20mm Machine Crushed Stone Jelly And With About (3.3 Cu.m.) 5156 Kg. of 10-12mm Machine Crushed Stone Jelly And With About And With About(4.79 Cu.m.) 7670 Kg of Crushed Stone Sand (M Sand), But Excluding Cost of Reinforcement Grill And Fabricating Charges, Centering Shuttering And Also Including Laying, Vibrating With Mechanical Vibrators, Finishing, Curing and including pumping charges Etc. And Providing Fixtures Like Fan Clamps In The Rcc Floor/Roof Slabs Wherever Necessary Without Claimin Extra ,Etc., Complete Complying With Standard Specification And Des Alimenterar Over He Departmental Officers, The Coarse Und Die Aggregates To Be Used Should Comply With The Requirements That Is Standards (No Separate Payment Will Be Made By The Department For The Excess Usage of Materials).	CUM	7914.31	7744.35	7551.58
111	BRR - M30	Providing And Laying. In Position, Standardised Concrete Mix M-30 Grade In Accordance With Is:456-2000; Using 20mm And Down Graded Hard Broken Granite Stone Jelly For All Rcc Items of Works With Minimum Cement Content of 400 Kg/M3 And Maximum Water Cement Ratio of 0.45 Including Admixture (Plasticiser / Super Plasticiser) In Recommended Proportions As Per Is:9103 to accelerate, Retard Setting of Concrete, Improve Workability Without Impairing Strength And Durability With About (5.0 Cu.m.) 7730 Kg. of 20mm Machine Crushed Stone Jelly And With About (3.3 Cu.m.) 5156 Kg. of 10-12mm Machine Crushed Stone Jelly And With About (4.79 Cu.m.) 7670 Kg of Crushed Stone Sand (M Sand), But Excluding Cost of Reinforcement Grill And Fabricating Charges, Centering And Shuttering And Also Including Laying, Vibrating With Mechanical Vibrators, Finishing, Curing and including pumping charges Etc. And Providing Fixtures Like Fan Clamps In The Rcc Floor/ Roof Slabs, Wherever Necessary Without Claiming Extra, Etc., Complete Complying With Standard Specification And Os Directed By The Departmental Officers, The Coarse And Fine Aggregates To Be Used Should Comply With The Requirements of Is Standards. (No Separate Payment Will Be Made By The Department For The Excess Usage of Materials).	CUM	8264.17	8092.90	7899.16

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
112	BRR - M40	Providing And Laying In Position, Standardised Concrete Mix M-40 Grade In Accordance With 15:456-2000, Using 20mm And Down Graded Hard Broken Granite Stone Jelly For All Rcc Items of Works With Minimum Cement Content of 440 Kg/M3 And Maximum Water Cement Ratio of 0.10, Including Udmixture (Plasticiser / Super Plasticiser) .In Recommended. Proportions As Per Is:9103. to accelerate, Retard Setting of Concrete, Improve Workability Without Impairing Strength And Durability With About (5.0 Cu.m.) 7730 Kg. of 20mm Machine Crushed Stone Jelly And With About (3.3 Cu. M.) 5136 Kg. of 10-12mm Machine Crushed Stone Sand (M Sand), But Excluding Cost of Reinforcement Grill And Fabricating Charges, Centering And Shuttering And Also Including Laying, Vibrating With Mechanical Vibrators, Finishing, Curing and including pumping charges Etc. And Providing Fixtures Like Fan Clamps In The Rcc Floor/ Roof Slabs Wherever Necessary Without Claiming Extra, Etc., Complete Complying With Standard Specification And As Directed By The Departmental Officers. The Coarse And Fine Aggregates To Be Used Should Comply With The Requirements of Is Standards. (No Separate Payment Will Be Made By The Department For The Excess Use of Materials)	CUM	8595.19	8422.87	8228.37
113	BRR - CMCRB1	Providing Crash Barrier For The Center Median With M20 Grade concrete , Top of 200mm And Bottom of 450mm With A Height of 690mm Including Shuttering, using 66 Nos of 10mm dia Rings (Main Rods) and 14 Nos of 8mm dia distributors, including Two Coats of Exterior Emulsion Painting Including and Fixing 1 No. Pvc Pipe of 110mm Dia With 6 Kg/Sq.cm Etc., Complete As Per The Sketch Enclosed And As Directed By The Engineer-In-Charge	MTR	4999.09	4958.45	4912.31
114	BRR - CMCRB2	Providing Crash Barrier For The Center Median With M20 Grade concrete , Top of 150mm And Bottom of 650mm With A Height of 810mm To 860mm Including Shuttering,using 66 Nos of 12mm dia Rings (Main Rods) and 18 Nos of 8mm dia distributors, Two Coats of Exterior Emulsion Painting Including Fixing 1 No. Pvc Pipe of 110mm Dia With 6 Kg/Sq.cm Etc., Complete As Per The Sketch Enclosed And As Directed By The Engineer-In-Charge	MTR	6751.81	6701.02	6643.34

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
115	BRR - SNB- Single	Supplying And Fixing of Digitally Printed Retroreflective Single Arrow Sign Board Made of Type Xi Grade Cube Corner Micro Prismatic Grade Sheeting Confirming To Irc 67-2012 As Per Astmd-4956-09 Specifications, Digitally Printed Using Latex Printer For Traffic Colour Logos/Text And Laminated With Clear Electro-Cut Film And Applied To Proper Prepared Sign Substrate Made of 4mm Thick Aluminum Composite Material (Acm) And Back Support Frame Angle of 25mm X 25mmx3mm Supported By 32Nb, 2.7mm Thick Stainless Steel Pipe All Round In 304 Grade And 2 Nos. of Vertical Posts of 65Nb, 3.04mm Thick Stainless Steel Pipe of 304 Grade Firmly Fixed To The Found By Means of Properly Designed Foundation of Size 300 mm X 300 mm X 450 mm With M15 Grade Cement Concrete And The Item Shall Include Earthwork Excavation, Cost of Materials, Loading, Unloading, Lead, Lift, Transportation Etc, Complete As Per Approved Template. The Sign Board Base Made of Type Xi Micro Prismatic Grade Reflector Sheeting of White Color Should Pass Minimum Co-Efficient of Retro-Reflection Values As Per The Table 6.9 of Irc 67-2012. The Retro Reflective Sheeting Shall Be Covered Under 10 Years Warranty Issued For Field Performance And Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained By The Engineer-In-Charge. The Warranty Shall Be Inclusive of Digitally Printed Logos/Text/Legends And Their Bonding To The Retro-Reflective Sheeting (As Per Mort&H Specification No.801). The Latex Printer Used For Digital Printing Should Be Used With Inks of Low Voc Emission And Should Have Greenguard, Eco Logo Certificate As Per UI 2801 Standards. The Warranty & Test Certificates Shall Be Obtained From The Retro-Reflective Sheeting Manufacturer By The Contractor And Shall Be Submitted To Engineer-In-Charge.	NOS	22675.00	22675.00	22675.00
116	BRR - SNB- Double	Supplying And Fixing of Digitally Printed Retroreflective Double Arrow Sign Board Made of Type Xi Grade Cube Corner Micro Prismatic Grade Sheeting Confirming To Irc 67-2012 As Per Astmd-4956-09 Specifications, Digitally Printed Using Latex Printer For Traffic Colour Logos/Text And Laminated With Clear Electro-Cut Film And Applied To Proper Prepared Sign Substrate Made of 4mm Thick Aluminum Composite Material (Acm) And Back Support Frame Angle of 25mm X 25mmx3mm Supported By 32Nb, 2.7mm Thick Stainless Steel Pipe All Round In 304 Grade And 2 Nos. of Vertical Posts of 65Nb, 3.04mm Thick Stainless Steel Pipe of 304 Grade Firmly Fixed To The Found By Means of Properly Designed Foundation of Size 300 mm X 300 mm X 450 mm With M15 Grade Cement Concrete And The Item Shall Include Earthwork Excavation, Cost of Materials, Loading, Unloading, Lead, Lift, Transportation Etc, Complete As Per Approved Template. The Sign Board Base Made of Type Xi Micro Prismatic Grade Reflector Sheeting of White Color Should Pass Minimum Co-Efficient of Retro-Reflection Values As Per The Table 6.9 of Irc 67-2012. The Retro Reflective Sheeting Shall Be Covered Under 10 Years Warranty Issued For Field Performance And Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained By The Engineer-In-Charge. The Warranty Shall Be Inclusive of Digitally Printed Logos/Text/Legends And Their Bonding To The Retro-Reflective Sheeting (As Per Mort&H Specification No.801). The Latex Printer Used For Digital Printing Should Be Used With Inks of Low Voc Emission And Should Have Greenguard, Eco Logo Certificate As Per UI 2801 Standards. The Warranty & Test Certificates Shall Be Obtained From The Retro-Reflective Sheeting Manufacturer By The Contractor And Shall Be Submitted To Engineer-In-Charge.	NOS	27700.00	27700.00	27700.00
117	BRR - CC Bollard	Reinforced Cement Concrete Bollards with M20 grade concrete and 150mm dia 4 Nos of 10mm dia TMT of overall size 800mm, 100mm projection of TMT Roads at the bottom of the Bollards beyond 800mm for anchor. Black pigment at 4.5 percent weight to cement will be used. Two Strips of Reflective 3M Sticker of width 40mm, including transportation and fixing charges etc, complete.	NOS	3000	3000	3000
118	BRR - Saucer Drain	providing and laying precastsaucer type drain of size 600x300 x 50mm with M30 GRADE concrete including the Cutting of the existing bituminous surface of 10 cm thicckness and PCC of 1:3:6 for leveling and maintain the gradient to drain the water from raod to Storm water Drain etc and complete	RM	562.00	562.00	562.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
119	BRR - FRC Tree Grating	Supplying and laying precast a size 300x300 x 60mm thick with perforated hole for perlocation of water and using M30 GRADE concrete inclusive the conveyance of the material from the Manufacturer factory to the site al lead of average 40km and including the sectioning, levelling ,laying the good earth for maintain the uniform top level and compacting with earth rammer etc and complete	SQM	2351.00	2351.00	2351.00
120	BRR - TRSI-1(V)	Providing And Fixing of Retro Refelctorised Cautionary,90 cm Equilateral Triangle Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported on a Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level to The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	4048.00	4048.00	4048.00
121	BRR - TRSI-2(V)	Providing And Fixing of Retro Refelctorised Cautionary,60 cm Equilateral Triangle Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported on a Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level to The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	2632.00	2632.00	2632.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
122	BRR - TRSI-3(V)	Providing And Fixing of Retro Refelctorised Cautionary,60 cm Circular Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported on a Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level to The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	3596.00	3596.00	3596.00
123	BRR - TRSI-4(V)	Providing And Fixing of Retro Refelctorised Cautionary,80 cm X 60 cm Rectangular Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming to Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over a Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed to The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro- Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	4954.00	4954.00	4954.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
124	BRR - TRSI-5(V)	Providing And Fixing of Retro Refelctorised Cautionary, 60 cm X 45 cm Rectangular Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming to Type – Iv Standards of Irc 67 .2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over a Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed to The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro- Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	3440.00	3440.00	3440.00
125	BRR - TRSI-6(V)	Providing And Fixing of Retro Refelctorised Cautionary, 60 cm X 60 cm Square Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 .2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	4086.00	4086.00	4086.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
126	BRR - TRSI-7(V)	Providing And Fixing of Retro Refelctorised Cautionary,90 cm High Octagon Mandatory And Informatory Signs (Without Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over a Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed to The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67X2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	6335.00	6335.00	6335.00
127	BRR - TRSI-8(V)	Providing And Fixing of Retro Refelctorised Cautionary, 90 cm Equilateral Triangle Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 : 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over a Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed to The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)	EACH	5373.00	5373.00	5373.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
128	BRR - TRSI-9(V)	<p>Providing And Fixing of Retro Refelctorised Cautionary,60 cm Equilateral Triangle Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 .2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over a Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)</p>	EACH	3954.00	3954.00	3954.00
129	BRR - TRSI-10(V)	<p>Providing And Fixing of Retro Refelctorised Cautionary ,60 cm Circular Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67: 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported on a Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level to The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)</p>	EACH	4917.00	4917.00	4917.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
130	BRR - TRSI-11(V)	Providing And Fixing of Retro Refelctorised Cautionary, 80 cm X 60 cm Rectangular Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 :2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)	EACH	6276.00	6276.00	6276.00
131	BRR - TRSI-12(V)	Providing And Fixing of Retro Refelctorised Cautionary, 60 cm X 45 cm Rectangular Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45mmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)	EACH	4762.00	4762.00	4762.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
132	BRR - TRSI-13(V)	Providing And Fixing of Retro Refelctorised Cautionary, 60 cm X 60 cm Square Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported on a Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level to The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67:2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67-2012 (As Per Mort&H Specification No.801)	EACH	5411.00	5411.00	5411.00
133	BRR - TRSI-14(V)	Providing And Fixing of Retro Refelctorised Cautionary,90 cm High Octagon Mandatory And Informatory Signs (With Definition Board) Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported on a Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level to The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67- 2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And a Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)	EACH	7658.00	7658.00	7658.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
134	BRR - TRSI-15(V)	Providing And Erecting Direction And Palce Identification Retro Refelctorised Signs Having Area Up to 0.9Sq.m – Type Iv Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc- 67:2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort &H Specification No.801)	SQM	8777.00	8777.00	8777.00
135	BRR - TRSI-16(V)	Providing And Erecting Direction And Palce Identification Retro Refelctorised Signs Having Area More Than 0.9Sq.m – Type Iv Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type – Iv Standards of Irc- 67: 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort &H Specification No.801)	SQM	9057.00	9057.00	9057.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
136	BRR - TRSI-17(V)	Providing And Erecting Direction And Palce Identification Retro Refelctorised Signs Having Area Up To 0.9Sq.m– Type Xi Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type Xi Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge.High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 10 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort &H Specification No.801)	SQM	10766.00	10766.00	10766.00
137	BRR - TRSI-18(V)	Providing And Erecting Direction And Palce Identification Retro Refelctorised Signs Having Area More Than 0.9Sq.m– Type Xi Made Out of High Intensity Prismatic Grade Sheeting Conforming To Type Xi Standards of Irc 67 . 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm With A Clear Height of Not Less Than 2.10M From The Ground Level To The Bottom of The Sign Board And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 10 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)	SQM	11046.00	11046.00	11046.00
138	BRR - TRSI-19(V)	Providing And Laying of Hot Applied Thermoplastic Compound 2.5 mm Thick Including Reflectorising Glass Beads @ 250 Gms Per Sqm Area, Thickness of 2.5 mm Is Exclusive of Surface Applied Glass Beads As Per Irc:35 The Finished Surface To Be Level Uniform And Free From Streaks And Holes Etc Completed As Per Mort& H Specification No.803	SQM	841.00	841.00	841.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
139	BRR - TRSI-20(V)	<p>Providing And Fixing Reflective Road Studs of Category a Raised Pavement Markers Made Out of Poly Carbonate / Methyl Methacrylate /Abs Moulded Body Conforming to astm D 788 And Reflective Panels With Micro Prismatic Lens Capable of Providing Total Internal Reflection of The Light Entering The Lens Face With Retro Reflectance And Chromaticity Values Conforming to astm D4280. The Reflective Raised Pavement Markers Shall Also Confirm To The Morth Circular No Rw/Nh. 33023/10/97- Do.Iii Dt 11.06.97. The Height, Width And Length Shall Not Be Less Than 15mm, 90mm And 100mm And With Minimum Reflection Area of 13 Sq.m On Each Side And The Slope To The Base Shall Be 35+/-5Degree Each Reflectors Shall Have A Cil Not Less Than Values Specified In Table 2 of Said Morth Circular. The Strength of Detachment of The Integrated Cylindrical Shanks, (of Diameter Not Less Than 19+/-2mm And Height Not Less Than 30+/-2mm) From The Body Is To Be A Minimum Value of 500Kgf. Fixing Will Be By Drilling Holes On The Road For The Shanks to Go Inside, Without Nails And Using Epoxy Resin Based Adhesive As Per Manufacturer'S Recommendation And Complete As Directed By The Engineer.The Marker Shall Support a Load of 13635Kg Tested In Accordance With Astm D4280 And Confirming to Irc 35-2015 Guidelines And .2 Year Manufacturers Warranty For The Satisfactory Field Performance To Be Submitted To The Engineer Incharge For Payment Processs As Mort&H Specification 804 Etc., Complete</p>	EACH	414.00	414.00	414.00
140	BRR - TRSI-21(V)	<p>Providing And Fixing of Retro Refelctorised Hazard Traffic Sign Made Out of High Intensity Prismatic Grade 30cm X 90 cm Rectangular Sheeting Confirming To Type – Iv Standards of Irc 67- 2012 And Astm D 4956 – 09, Specification And Fixed Over 2mm Thick Aluminium Sheet Fixed Over A Back Supporting Frame of 25mm X 25mmx3mm. Mild Steel Angel And Supported On A Mild Steel Angel Post 75X75X6mm And 0.60M Below Ground Level. The Sign Post Should Be Painted As Per Irc 67-2012 And Firmly Fixed To The Ground By Means of Properly Designed Foundation With M15 Grade Cement Concrete 45cmx45cmx60cm Size Including Cost And Conveyance of All Materials, Equipment, Machinery And Labour With All Leads And Lifts, Loading Charges Necessary For Satisfactory Completion of The Work As Directed By The Engineer In Charge. High Intensity Retro – Reflection Sheet Shall Consist of Minimum Coefficient of Retro-Reflection As Per Table 6.6 of Irc 67-2012. The Retro Reflection Sheeting Shall Be Covered Under 7 Years Warranty Issued For Field Performance And A Certified Copy of Three Years Outdoor Exposure Report Shall Be Obtained As Per Irc 67:2012 (As Per Mort&H Specification No.801)</p>	EACH	3342	3342	3342

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
141	BRR - TRSI-22(V)	Providing and fixing of Delineator as per IRC 79-2019(road way indicators, hazard markers and object markers) consisting of minimum retro reflective unit exposed area of 330 cm ² white color, full cube corner micro prismatic non-metallic retro reflective sheeting on each side conforming with IRC 67 2012 and meeting the coefficient of retro reflection values as per ASTM D 4956 Type XI table specification. The delineator shall be painted with powder coat of minimum 40 microns thickness, on top of which retro reflective sheeting shall be pasted on both sides. The structure shall be manufactured in roll forming process and shall have height not less than 800 mm above the ground, width not less than 100 mm and shall extend not more than 300mm below the ground while being installed. The front and back faces of the delineator should be curved with a radius of not more than 200 mm and with delta angle (or central angle of curve) lying between 20 Deg and 30 Deg, to increase the visibility of the delineator for vehicles moving in continuous curves. The delineator shall have grooves across the length to make the reflective sheets vandal-proof. The delineator is meant for application on gaps in median, traffic islands, dangerous bends, roundabouts, narrow bridges etc. or as desired by site engineer with a period of one year warranty.	EACH	2215.00	2215.00	2215.00
142	BRR - TRSI-23(V)	Metal Beam Crash Barrier Type –A, “W” Double Guard Providing And Erecting Single Sided Double Guard Metal Beam Crash Barrier System 1.80M High, Comprising of 3mm Thick Wall “W” Beams Posts And Spacer Channels Shall Be Made By Cold Roll Forming Using Hr Conform To Is 5986 Fe 410/360 And Dip Galvanized Having Zinc Mass of 550Gms/Sqm, Minimum 95mm Above Road/Ground Level Fixed On Ismc Series Channel Vertical Post 150X75X5mm Spaced 2M Centre To Centre 312mm X 83mm Flange Width X 3mm Thick, 4318mm Long Post Directly Embedded In The Concrete (M15) Pit Size 350X350X800mm For A Depth of 750mm Below Ground. All Fixing Bolts And Nuts Hot Dip Galvanized Conforming To Is:1367 Clause 4.60 All Complete As Per Technical Specification And As Directed By The Engineer- In – Charge.	RM	5864.00	5864.00	5864.00
143	BRR - TRSI-24(V)	Providing And Fixing of Rigid Median Marker Double Sided Made of Tough, High Impact Resistant, Injection-Molded, Thermoplastic Body With An Isosceles Trapezoidal Structure of Length, Width And Height Not Less Than 15cm, 10cm And 10cm Respectively And Thickness Notless Than 1.8mm, The Body Structure Shall Be Rounded At Its Acute Angle, All The Corners And Edges. The Plastic Used For Molding The Median Marker Shall Have A Minimum Notched Izod Impact Strength Value of 600 J/M At Room Temperature, When Tested In Accordance With Astm D256 And Shall Retain At Least 70% of This Value When Subjected to accelerated Weathering For 1000Hrs As Per Astm G155 Or UI746C. The Logo of The Manufacturer Shall Be Embossed On Either Side of The Body In The Injection Molding Process. The Median Markern Shall Have Rectangular-Shaped, Fluorescent Yellow Color Retro-Reflective Sheeting of Size Not Less Than 8.5cm*8.5cm And With Fully Reflective Micro Prismatic Cube Corners As Its Retro- Reflective Elements As Per Irc 67 2012 And Astm D4956-09 Type Xi Specifications Reflectivity Values. The Retro-Reflective Sheeting Shall Be Both Sides of The Median Marker And Shall Be Cdge Protected With No Exposed Edges Which Will Prevent Edge Lifting, Vandalism, Sheeting Damage, Etc. The Median Marker Shall Be Fixed By A Combination of Epoxy Adhesive And Grouting	EACH	445.00	445.00	445.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
144	BRR - TRSI-25(V)	Providing And Fixing Star Sign Made of High Intensity Prismatic Sheeting Conforming To Type Iv Specification As Per Irc-67 2012 Guidelines Pasted Over Cr Sheet 0.20 mm/ 32G Thickness With Black Enamel Paint Firmly Fixed On The Trees Using Epoxy Based Adhesive	EACH	80.00	80.00	80.00
145	BRR - TRSI-26(V)	Providing And Fixing of Flexible Spring Post/ Tubular Marker Made Up of Polyurethane Used To Divide Opposing Lanes of Road Users Shall Be Flexible In Nature. Tubular Marker Having Minimum Height 700mm Shall Be Having Minimum 3Inch Reboundable Work Zone Retroreflective Sheeting Class A (Type-1) As Per Astm 4956 S2. Application of Tubular Marker Shall Be Done As Per Irc Sp 55-2014. Test Report For Type I Reboundable Sheeting And 1 Year Warranty For The Product To Be Provided. Logo / Information Shall Be Digitally Printed On The Retro Reflective Sheeting.	EACH	1800.00	1800.00	1800.00
146	BRR - TRSI-27(V)	Supplying And Fixing of Solar Raised Pavement Markers Made of Polycarbonate Molded Body, Solar Powered, Led Self-Illumination In Active Mode, 360 Degree Illumination And Reflective Panels With Micro Prismatic Lens Capable of Providing Total Internal Reflection of The Light Entering The Lens Face In Passive Mode. The Product Shall Support A Load of 13635 Kg Tested In Accordance To Morth And Astm D 4280 Type H. The Product Should Be Resistant To Water Ingress According To Ip 65 Standards With Is 12063:1987 Category 2 And Should Withstand Temperatures In The Range of - 7 C To 70 C. Flashing Rate And Color of Lighting Is To Be Provided As Per Requirement. There Should Be Minimum Current Losses of Less Than 20 Micro-Amperes In Sleep-Charging Mode To Enhance Product Life And Single Charge Should Provide For A Minimum Dtonomy of 50 Hours. The Height, Width And Length Shall Not Be Less Than 10 mm X 100 mm X 100 mm. Fixing Will Be By Drilling Holes On The Road For The Shanks To Go Inside, Without Nails And Using Epoxy Resin Based Adhesive As Per Manufacturer'S Recommendation And Complete As Directed By The Engineer. Warranty Certificate And Test Reports Confirming To Compressive Strength As Per Morth Circular Shall Be Obtained From The Manufacturer And Submitted To The Engineer-In-Charge. Two Years Warranty Certificate For Solar Rpm For The Quantity Installed And A Certified Copy of Test Reports From An Independent Test Laboratory Conforming To Water Ingress Shall Be Obtained From The Manufacturer By The Contractor And Submitted To The Engineer-In-Charge.	EACH	3050.00	3050.00	3050.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
147	BRR - TRSI-28(V)	Supplying And Fixing of Aluminium Backed Flexible Prismatic (Afp) Sheeting Shall Be Off Width And Laminated At The Back With A 50 Micron Thick Aluminium (Al) Foil With Pressure Sensitive Adhesive And Liner, Further This Flexible Prismatic Sheeting Shall Have Screen Printed Arrow / Slant Line Pattern In Black Colour On Top In Continuous Roll Format, Neither Afp Sheeting Nor The Flexible Prismatic Sheeting Used Shall Crack Whenslowly Bent In Second Time Around A 1/8Th Inch Mandrel After Being Conditioned For 24 Hrs At 0 Degrees And Tested As Per Section S2.2.2 of Astm, D 4956-09. The Afp Sheeting With The Linear Removed Shall Be Applied With A Neoprene Contact Adhesive With Polychloroprene As Base Viscosity of 200-450 Cps And Solid Content of 20-30 % Once Applied The Edges of The Product Shall Be Extremely Resistant To Peel Off. A Test Report From Institutes Like Arai/Crr/ Conforming to above Mentioned Flexibility And Astm D 4956-09 Type - Vi Retro Reflectivity Performance of The Flexible Prismatic Sheeting Used In Afp Shall Be Submitted By The Tenderer During Pre-Qualification And Supply of Material. Two Years Pre-Qualification Warranty For Field Performance Shall Be Submitted By The Contractor For Technical Qualification In The Tender.	SQM	8400.00	8400.00	8400.00
148	BRR - TRSI-29(V)	Providing and Fixing of Flexible Median Markers as per IRC 79-2019 shall be provided with fluorescent yellow colour retro reflective sheeting Type XI as per IRC: 67 2012 Flexible Median Marker shall be of tough, high impact resistant, injection-molded, thermoplastic body with property of flexibility to provide high durability and U shape structure having rebound / bounce back property. The body of FMM shall bounce back to its original position after 750 numbers of hits using pendulum of 1.8 Kg conforming to ASTM D 256. Height: The marker height shall be a minimum of 180 mm Width: The marker width shall be a minimum 120 mm Body Thickness: minimum of 6.5 mm Shank Length: Each of the shanks shall not be less than 20 mm and depth shall not be less than 30 mm. Reflective Area: Shall not be less than 90 Cm Square. The sheeting shall be of Type XI as per IRC: 67 2012 and it should be on both the faces which provides maximum reflectivity at longer distance and is quite durable. The The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. Post installation the contractor shall obtain and submit a warranty Certificate from the product manufacturer in original for 2 years for the field performance of the product. Flexible Median Marker shall be fixed by a combination of epoxy adhesive and grouting / Drilling on concrete medians or properly constructed solid medians.	NOS	395.00	395.00	395.00
149	BRR - MS Bollards	Supply and fixing of Bollard made from mid steel with CNC machine finishing with 165mm outer diameter , 140mm inner diameter and 1030mm Height . Expose height 730mm from above Ground level and fixed the remaining 300mm below the GL. Two number of circular rib of R10mm radius are provided at the top and bottom of the bollard. 4 Nos of 15mm width retro reflective sheet pasted at the top and bottom groove by hot blow air sticking process for an ambience look and nighttime visibility. The whole product is power coated as per standard recommendation of Engineer. For fixing the Bollards with M15 cement concrete 45cmx44cmx60cm,55cm below ground level with 140dia x 250mm inner sleeve inserted for 150mm below ground level and 100mm projected above ground level. The inner sleeve is fixed with bollard using M16 bolt of 200mm length	NOS	7287.00	7287.00	7287.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
150	BRR - DWCP-750N	Supplying and laying of 200/170 mm Double Walled Corrugated duct as per IS 16205 Part 24 with OD of 200 mm and a minimum ID of 170 mm shall be used for laying of streetlight power cables. The duct shall not crack under the compressive load test of >750N @ 5% deflection. The duct shall not crack or split at impact load of 5Kg dropped from a height of 800 mm @ -5 degrees C. Both walls of the duct shall be orange in color ONLY. 100% virgin HDPE raw material shall be used. No regrind shall be used and the duct shall be sourced from ISO 9001,14001,18001 and ISRS audited manufacturer ONLY. Cost inclusion of Couplers and End Caps with 'O' Ring as per IP 67 for protection from water and soil ingress. BIS licence for 750 N is a must for the supplier	MTR	604.00	604.00	604.00
151	BRR - DIMHD 1	Supplying and fixing of Ductile Iron manhole cover hinged with frame clear opening of size 900mmx900mm of class C-400 (Heavy Duty 25MT) of appropriate size and load capacity of approved brand to BSEN 124:1994 Standards. Raw material should be of grade SG/500/7 as per IS-1865. Product should be tested in NABL/NTH accredited test lab for load capacity. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole	NOS	19393.00	19393.00	19393.00
152	BRR - DIMHD 2	Supplying and fixing of Ductile Iron manhole cover hinged with frame clear opening of size 900mmx900mm of class C-400 (Heavy Duty 40MT) of appropriate size and load capacity of approved brand to BSEN 124:1994 Standards. Raw material should be of grade SG/500/7 as per IS-1865. Product should be tested in NABL/NTH accredited test lab for load capacity. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole	NOS	24878.00	24878.00	24878.00
153	BRR - DIMHD 3	Supplying and fixing of Ductile Iron manhole cover hinged with frame clear opening of size 600mmx900mm of class C-250 (Heavy Duty 25MT) of appropriate size and load capacity of approved brand to BSEN 124:1994 Standards. Raw material should be of grade SG/500/7 as per IS-1865. Product should be tested in NABL/NTH accredited test lab for load capacity. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole	NOS	22398.00	22398.00	22398.00
154	BRR - RCC-RPS	Supply and fixing of Reinforced cement concrete (M40 grade)Rectangular precast seater box a size 1000mm X 450mm X 450mm with 30 mm thick wall including the transportation from the Manufacture factory to site and placing the seater as directed by Engineer incharge	NOS	18160.00	18160.00	18160.00
155	BRR - RCC-RPPB	Supply and fixing of Reinforced cement concrete (M40 grade) Rectangular precaster planter box a size of 1000 X 450 X 750mm with M40grade Concrete including the transportation from the Manufacture factory to site and placing planter boxes as directed by Engineer incharge etc and complete	NOS	20250.00	20250.00	20250.00
156	BRR - RCC-PCP	Supply and fixing of Reinforced concrete (M40 grade) circular precaster planter boxes a size of 600mm dia and 600mm height including the transportation from the Manufacture factory to site and placing the planter boxes as directed by Engineer incharge etc and complete	NOS	8770.00	8770.00	8770.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
157	BRR - RCC-PCS	Supply and fixing of Reinforced cement concrete circular precast seater boxes a size of 450mm dia and 450 mm height with M40 grade Concrete including the transportation from the Manufacture factory to site and placing the seater boxes as directed by Engineer incharge etc and complete	NOS	9500.00	9500.00	9500.00
158	BRR - GRC RPS	Supply and fixing of Glass fiber Reinforced concrete Rectangular precast seater boxes a size of 1000 X 450 X 450mm with M30 grade Concrete including the one coat of putty paint for finishing the external surface including the transportation from the Manufacture factory to site and placing the Rectanguar boxes as directed by Engineer incharge	NOS	20250.00	20250.00	20250.00
159	BRR - GRCCPP	Supply and fixing of Glass fiber Reinforced concrete Rectangular precast planter boxes a size of 1000 X 450 X 750mm with M30 grade Concrete including the one coat of putty paint for finishing the external surface including the transportation from the Manufacture factory to site and placing the Rectanguar boxes as directed by Engineer incharge etc and complete	NOS	20250.00	20250.00	20250.00
160	BRR - GRCCPS	Supply and fixing of Glass fiber Reinforced concrete circular precast seater boxes a size of 600mm dia and 450 mm height with M30 grade Concrete including the one coat of putty paint for finishing the external surface including the transportation from the Manufacture factory to site and placing the Rectanguar boxes as directed by Engineer incharge etc and complete	NOS	12750.00	12750.00	12750.00
161	BRR - GRCCPB	Supply and fixing of Glass fiber Reinforced concrete circular precast planter boxes a size of 600mm dia and 600mm height with M30 grade Concrete including the one coat of putty paint for finishing the external surface including the transportation from the Manufacture factory to site and placing the Rectanguar boxes as directed by Engineer incharge etc and complete	NOS	12750.00	12750.00	12750.00
162	BRR - CNCMSPS	Supplying and Fixing of CNC cut perforated Enclosure for EB transformer and EB pillar Boxes by using CNC MS Sheet (2mm thick), door hinged with vertical support of 80X40 mm Tubular Post including horizontal Support and Stiffener (40 x40 x2mm) for MS sheet including Powder coating of all structural members and labor for fitting , welding and transportation of the material from the factory to Site as directed by the engineer - in charge.	KG	294.00	294.00	294.00

SL No	Sch.No	Description	Qty Unit	North Zone	Central Zone	South Zone
163	BRR - GANTRY 1	<p>Digitally Printed Retro-Reflectorized Overhead Cantilever Gantry Informatory Sign Board of size 5.0m x 1.80m</p> <p>Providing and fixing of Digitally Printed Retro-Reflectorized Overhead Cantilever Gantry Informatory Sign Board made out of cube corner Micro Prismatic grade sheeting of Type XI standards of IRCG7 - 2012 and ASTM D 4956 — 09 specification, Digitally Printed using Latex Printer for traffic color logos/ text and laminated with clear electro-cutable film and applied to properly prepared sign substrates, fixed over 2mm thick aluminum sheet with back supporting frame of size 50mm x 50mm x 6mm MS angle and supported on a vertical post of 300 NB (Nominal Bore) MS pipe of 12 mm thick with a ground clearance of 6 meters along with 80NB (Nominal Bore) MS Pipe with 4mm thick and 40NB (Nominal Bore) MS Pipe with 3.20 mm thick support posts. The sign board should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed substructure and foundation with Reinforced Cement Concrete M20 grade column (1.25m x 1.25m x 1.90m) and footing (1.80m x 1.80m x 0.30m) with Fe 500 steel over Plain Cement Concrete M15 grade levelling course of 100 mm thick. The minimum depth or foundation shall not be less than 2.00m. 1 number of MS Base plate of size 1200mm x 1200mm x 25mm with Anchor bolts of 25 mm dia and 1000mm length, 2 numbers of MS Top plates of size 900mm x 2 100mm x 16mm with suitable bolts, nuts and washers, suitable numbers of MS stiffener plates of 8mm thick are to be used to hold the sign board at the bottom and top respectively including cost and conveyance of all materials, equipment, machinery and labour with all leads and lifts, loading charges and fixing the overhead cantilever sign board in position, etc., for satisfactory completion of the work as per structural and foundation drawings approved by the competent authority and as directed by the Engineer-in-charge. The micro prismatic grade retro-reflector sheet should have minimum co-efficient of Retro-reflection values as per Table 6.9 of IRC 67— 2012. The retro-reflective sheeting Shall be covered under 10 years warranty issued for field performance as per IRC 67 -20 12 and a certified copy of 3 years outdoor exposure report shall be obtained. The warranty shall be inclusive of digitally printed logos /text/legends and their bonding to the retro-reflective sheeting (as per MoRT&H specification No.80 1). The Latex printer used for digital printing should be used with inks of low VOC emissions and should have green guard, eco logo certificates as per UL 2801 standards.</p>	NOS	468127.00	468127.00	468127.00
164	BRR - GANTRY 2	<p>Digitally Printed Retro-Reflectorized Overhead Gantry Informatory Sign Board of Size 12.0 m x 1.80 m</p> <p>Providing and fixing of Digitally Printed Retro-Reflectorized Overhead Gantry Informatory Sign Board made out of cube corner Micro Prismatic grade sheeting of Type XI standards of IRC 67 - 2012 and ASTM D 4956 — 09 specification, Digitally Printed using Latex Printer for traffic color logos / text and laminated with clear electro-cutable film and applied to properly prepared sign substrates, fixed over 2 mm thick aluminum sheet with back supporting frame of size 50 mm x 50mm x 6mm MS angle and supported on 2 numbers of vertical posts of 300 NB (Nominal Bore) MS pipe of 12 mm thick with a ground clearance of 6metres along with 80NB (Nominal Bore) MW Pipes with 4mm thick and 40NB (Nominal Bore) MS Pipes with 3.20 mm thick support posts. The sign board should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed substructure and foundation with Reinforced Cement Concrete M20 grade column (1.25m x 1.25m x 1.90m) and footing (1.80m x 1.80m x 0.30m) with Fe 500 steel over Plain Cement Concrete M15 grade levelling course of 100 mm thick for each vertical post, The minimum depth of foundation shall not be less than 2.00m. 1 number of MS Base plate of size 1200mm x 1200mm x 25mm with Anchor bolts of 25mm dia and 1000mm length, 2 numbers of MS Top plates of size 900 mm x 900mm x 16mm with suitable bolts, nuts and washers, suitable numbers of MS stiffener plates of 8mm thick are to be used for each vertical post, to hold the sign board at the bottom and top respectively including cost and conveyance of all materials, equipment, machinery and labour with all leads and lifts, loading charges and fixing the overhead sign board in position, etc., for satisfactory completion of the work as per structural and foundation drawings approved by the competent authority and as directed by the Engineer-in-charge. The micro prismatic grade retro-reflector sheet should have minimum co-efficient of retro-reflection values as per Table 6.9 of IRC 67—2012. The retro-reflective sheeting shall be covered under 10 years warranty issued for field performance as per IRC 67-2012 and a certified copy of 3 years outdoor exposure report shall be obtained. The warranty shall be inclusive of digitally printed logos / text /legends and their bonding to the retro-reflective sheeting (as per MoRT&H specification No.80 1). The Latex printer used for digital printing should be used with inks of low VOC emissions and should have green guard, eco logo certificates as per UL 2801 standards.</p>	NOS	881911.00	881911.00	881911.00