

NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

A GOVT. OF INDIA UNDERTAKING

Consultancy Services for Feasibility Study and Detailed Project Report for Four / Six Laning from Km 38.000 to Km 168.167 of Daboka-Dimapur Section of NH-36 & 39 in the State of Assam & Nagaland under NHDP, Phase – III B, Pkg. No. NHDP – III/DL5/21, Group - G

DIMAPUR BYPASS (ASSAM PART)



REVISED FINAL DETAILED PROJECT REPORT VOLUME VI : RATE ANALYSIS



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PREFACE

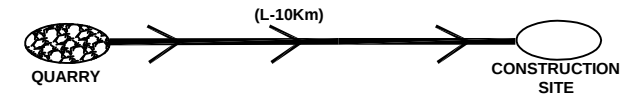
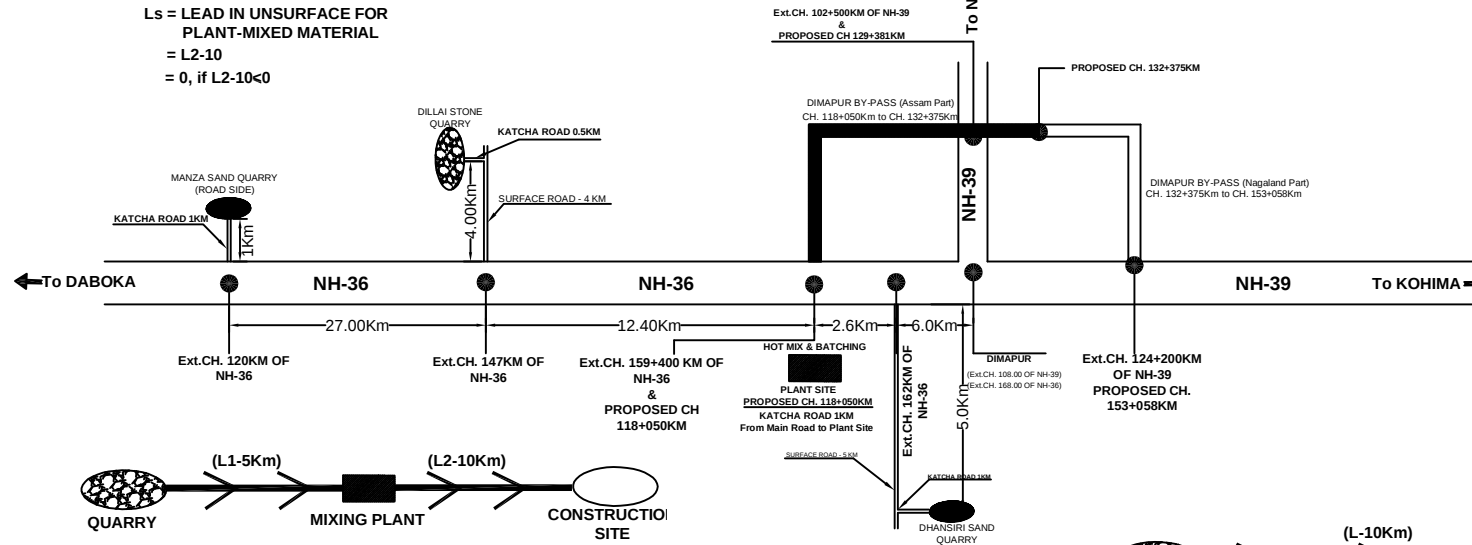
The unit rates are based on Prevailing SOR, 2013-14 for National Highways under Assam P.W (Building & NH), Government of Assam with Percentage increase in item rates allowed for Karbi Anglong district and addition of cost of carriage (cost of haulage, Loading and unloading) of materials as under :

- (i) For locally available materials like stone, stone boulders, coarse aggregates, sand, and earth for filling etc, carriage cost for lead as per Lead Chart from the source/quarry/crusher to work site, to work site via plant site.
- (ii) For Cement, steel, Bitumen & POL etc rates of materials include basic cost of materials at site.
- (iii) For manufactured construction materials rates as per SOR rates.
- (iv) Rates towards cost of haulage and loading & unloading are as per SOR, 2013-14 for NH or SH, PWD, Government of Assam.
 - (a) An initial Lead of 5km for quarry material is in-built in SOR rates. Extra lead over 5km, if any, has been considered for quarry materials.
 - (b) An initial Lead of 10km for plant mixed materials in in-built in SOR rates. Extra lead over 10km, if any, has been considered in rate analysis.

LEAD CHART SHOWING CARRIAGE OF MAJOR CONSTRUCTION MATERIALS

NOTE:

Ls = LEAD IN UNSURFACE FOR
PLANT-MIXED MATERIAL
= L2-10
= 0, if L2-10<0



ITEM OF CONSTRUCTION	MATERIAL	LEAD IN (KM)			
		SURFACED ROAD	UNSURFACED ROAD	KATCHA ROAD	TOTAL
LEAD CHART FOR PLANT - MIXED MATERIALS					
WMM	Stone Aggregate	11.400	-	2.500	13.900
BM	Stone Aggregate	11.400	-	2.500	13.900
	Bitumen Emulsion	-	-	-	-
DBM	Stone Aggregate	11.400	-	2.500	13.900
	Bitumen Emulsion	-	-	-	-
BC	Stone Aggregate	11.400	-	2.500	13.900
	Bitumen Emulsion	-	-	-	-
CONCRETE	Stone Aggregate	11.400	-	2.500	13.900
	Cement	-	-	-	-
	Sand	2.600	-	3.000	5.600

ITEM OF CONSTRUCTION	MATERIAL	LEAD IN (KM)			
		SURFACED ROAD	UNSURFACED ROAD	KATCHA ROAD	TOTAL
LEAD CHART FOR NON PLANT - MIXED MATERIALS					
GSB	Boulder	11.400	7.163	0.500	19.063
SAND FILLING	Sand	2.600	7.163	1.000	10.763
STONE AGGREGATE	Filter Media	11.400	7.163	0.500	19.063
REINFORCEMENT	HYSD Steel	-	-	-	-
RCC PIPE	NP4 (Rcc)	-	-	-	-
OTHERS MATERIALS	Mild Steel	-	-	-	-

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
SUB BASE AND BASE COURSES (NON BITUMINOUS)																		
4.2 (i)	GSB -for Grading - I	Cum	1961.00	300.00	Stone Aggregate	53mm to 26.5mm	134.400	Cum	1.28	2.56	0.00	0.00	11.40	7.163	0.5		189.91	2150.91
						26.5mm to 4.75mm	172.800											
						2.36mm below	76.800											
4.2 (ii)	GSB -for Grading -II	Cum	2028.00	300.00	Stone Aggregate	26.5mm to 4.75mm	288.000	Cum	1.28	2.56	0.00	0.00	11.40	7.163	0.5		189.91	2217.91
						2.36mm below	96.000											
4.2 (iii)	GSB -for Grading -III	Cum	1958.00	300.00	Stone Aggregate	9.5mm to 4.75mm	255.000	Cum	1.28	2.56	0.00	0.00	11.40	7.163	0.5		189.91	2147.91
						2.36mm below	129.000											
4.12	Wet Mix Macadam	Cum	2055.00	225.00	Stone Aggregate	45mm to 22.4mm	89.100	Cum	1.32	2.64	0.00	0.00	11.4	0	2.5		160.78	2215.78
						22.4mm to 2.36mm	118.800											
						2.36mm to 75 micron	89.100											
BASES AND SURFACE COURSES (BITUMINOUS)																		
5.1.A(ii)	Prime Coat	Sqm	46.00	3500.00	Bitumen Emulsion			2.1	Tonne	0.0006	0.0006	0.00	0.00	0	0	0	0.00	46.00
5.2.(II).C	Tack Coat	Sqm	20.00	3500.00	Bitumen Emulsion			0.875	Tonne	0.00025	0.00025	0.00	0.00	0	0	0	0.00	20.00
5.3.B.I (ii)	BM	Cum	7934.00	205.00	Stone Aggregate	25mm to 10mm	116.040	Cum	1.42	2.83	0.00	0.00	11.4	0	2.5		172.36	8106.36
						10mm to 5mm	116.040											
						5mm and below	58.020											
					Bitumen Emulsion			14.85	Tonne	0.072	0.072	0.00	0.00	0	0	0	0.00	
5.6.A (I) (ii)	DBM	Cum	9534.00	195.00	Stone Aggregate	25mm to 10mm	86.160	Cum	1.44	2.89	0.00	0.00	11.4	0	2.5		175.82	9709.82
						10mm to 5mm	80.430											
						5mm and below	114.900											
					Bitumen Emulsion			19.130	Tonne	0.098	0.098	0.00	0.00	0	0	0	0.00	
5.8.A (I) (ii)	BC	Cum	10875.00	191.00	Stone Aggregate	13.2mm to 10mm	85.500	Cum	1.46	2.92	0.00	0.00	11.4	0	2.5		178.11	11053.11
						10mm to 5mm	71.250											
						5mm and below	122.550											
					Bitumen Emulsion			22.5	Tonne	0.11780105	0.11780105	0.00	0.00	0	0	0	0.00	

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required		Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
5.14	Mastic Asphalt (25mm thick)	Sqm	634.00	35.00	Bitumen	0.2000	Tonne	0.005714	0.005714	0.00	0.0000	0	0	0		0.00	637.34
					Fine aggregate passing 2.36mm	0.3900	Cum	0.011143	0.022286	0.00	0.0000	11.4	0	2.5		1.36	
					Lime stone dust filler	0.3600	Tonne	0.010286	0.010286	0.00	0.0000	0	0	0		0.00	
					Coarse aggregates 6.3mm to 13.2mm	0.5500	Cum	0.015714	0.031429	0.00	0.0000	11.4	0	2.5		1.91	
					Pre-coated stone chips of 13.2mm	0.0200	Cum	0.000571	0.001143	0.00	0.0000	11.4	0	2.5		0.07	
					Bitumen for coating of chips	0.5000	Kg	0.014286	0.000014	0.00	0.0000	0	0	0		0.00	
6.1	DLC	Cum	3574.00	450.00	Crushed stone coarse aggregate	405.00	Cum	0.900000	1.800000	0.00	0.0000	11.4	0	2.5		109.62	3717.97
					Coarse sand	203.00	Cum	0.451111	0.812000	0.00	0.0000	2.6	0	3		27.85	
					Cement	67.50	Tonne	0.150000	0.150000	0.00	0.0000	0	0	0		0.00	
					Cost of water	48.00	Kl	0.106667	0.106667	0.00	0.0000	11.4	0	2.5		6.50	
6.2	PQC	Cum	8293.00	1050.00	Crushed Stone	945.00	Cum	0.900	1.80000	0.00	0.0000	11.4	0	2.5		109.62	8442.96
					Sand	473.00	Cum	0.450	0.81086	0.00	0.0000	2.6	0	3		27.81	
					Cement	414.00	Tonne	0.394	0.39429	0.00	0.0000	0	0	0		0.00	
					32mm Mild Steel	9.45	Tonne	0.009	0.00900	0.00	0.0000	0	0	0		0.00	
					16mm Deformed Steel	1.17	Tonne	0.001	0.00111	0.00	0.0000	0	0	0		0.00	
					Impermeable plastic sheeting 125	3675.00	Cum	0.028	0.05600	0.00	0.0000	0	0	0		0.00	
					Pre- moulded joint filler	0.41	Cum	0.000	0.00078	0.00	0.0000	0	0	0		0.00	
					Joint Sealant	875.00	Tonne	0.001	0.00083	0.00	0.0000	0	0	0		0.00	
					Sealant Primer	116.67	Tonne	0.000	0.00011	0.00	0.0000	0	0	0		0.00	
					Plastic Sheath	46.67	Cum	0.036	0.07112	0.00	0.0000	0	0	0		0.00	
					Curing compound	1850.00	Tonne	0.002	0.00176	0.00	0.0000	0	0	0		0.00	
					Plasticizer admixture IS marked	2070.00	Tonne	0.002	0.00197	0.00	0.000	0	0	0		0.00	
					Cost of water	216.00	Kl	0.206	0.20571	0.00	0.0000	11.4	0	2.5		12.53	
FOUNDATION																	
12.6.A	Cement Motar (1:3)	Cum	5054.00	1.00	Cement	0.51	Tonne	0.51	0.51	0.00	0.00	0	0	0		0.00	5118.83
					Sand	1.05	Cum	1.05	1.89	0.00	0.00	2.6	0	3		64.83	
12.6.B	Cement Motar (1:2)	Cum	6165.00	1.00	Cement	0.67	Tonne	0.67	0.67	0.00	0.00	0	0	0		0.00	6222.42
					Sand	0.93	Cum	0.93	1.674	0.00	0.00	2.6	0	3		57.42	

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										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
12.6.C	Cement Motar (1:4)	Cum	4313.00	1.00	Cement	0.40	Tonne	0.4	0.4	0.00	0.00	0	0	0		0.00	4382.15
					Sand	1.12	Cum	1.12	2.016	0.00	0.00	2.6	0	3		69.15	
12.6.D	Cement Motar (1:6)	Cum	3654.00	1.00	Cement	0.29	Tonne	0.29	0.29	0.00	0.00	0	0	0		0.00	3736.73
					Sand	1.34	Cum	1.34	2.41	0.00	0.00	2.6	0	3		82.73	
12.3	Sand Filling	Cum	1798.00	1.00	Sand (assuming 20percent voids)		Cum	1.2	2.16	0.00	0.00	2.6	0	3		74.09	1872.09
12.8.B (a)	PCC Grade M15	Cum	6514.00	15.00	Stone Aggregate	40mm		Cum	0.90	1.80	0.00	0.00	11.4	0	2.5	109.62	6651.40
						20mm	4.050										
						10mm	1.350										
					Cement		Tonne	0.275	0.275	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.8.B (b)	PCC Grade M20	Cum	7482.00	15.00	Stone Aggregate	40mm		Cum	0.9	1.80	0.00	0.00	11.4	0	2.5	109.62	7619.40
						20mm	5.400										
						10mm	2.700										
					Cement		Tonne	0.344	0.344	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.8.B (c) Case II	RCC Grade M20	Cum	8075.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5	109.62	8212.40
						10mm	43.200										
					Cement		Tonne	0.347	0.347	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.8.B (e) Case II	RCC Grade M25	Cum	8837.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5	109.62	8974.40
						10mm	43.200										
					Cement		Tonne	0.403	0.403	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.a(ii) Case II	Well Curb RCC Grade M25	Cum	9727.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5	109.62	9864.40
						10mm	43.200										
					Cement		Tonne	0.403	0.403	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

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Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
12.11 B.b (v) Case II	Well Steining RCC Grade M25	Cum	8917.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9054.40
						10mm	43.200											
					Cement			Tonne	0.403	0.403	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.8.B.(g)) Case II	RCC Grade M30	Cum	8864.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9001.40
						10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.b (vii) Case II	Well Steining RCC Grade M30	Cum	8965.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9102.40
						10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.8.B.(h)) Case II	RCC Grade M35	Cum	9030.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9167.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.a(iv) Case II	Well Curb RCC Grade M35	Cum	10003.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	10140.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.b(viii) Case II	Well Steining RCC Grade M35	Cum	9169.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9306.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.f (v)	Well Cap RCC Grade M40	Cum	9208.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9345.40
						10mm	43.200											
					Cement			Tonne	0.435	0.435	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

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Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
12.11 B.c (i) Case II	Bottom Plug PCC Grade M20	Cum	8419.00	120.00	Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8556.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.37	0.37	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.c (ii) Case II	Bottom Plug PCC Grade M25	Cum	8836.00	120.00	Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8973.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.399	0.399	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.c (iii) Case II	Bottom Plug PCC Grade M30	Cum	8924.00	120.00	Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9061.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.405	0.405	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.d (i) Case II	Intermediate Plug PCC Grade M20	Cum	7672.00	120.00	Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	7809.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.37	0.37	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.d (ii) Case II	Intermediate Plug PCC Grade M25	Cum	8032.00	120.00	Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8169.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.399	0.399	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.d (iii) Case II	Intermediate Plug PCC Grade M30	Cum	8133.00	120.00	Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8270.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.405	0.405	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.e (iii) Case II	Top Plug PCC Grade M25	Cum	8015.00	120.00	Stone Aggregate	40mm	43.200	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8152.40
						20mm	43.200											
						10mm	21.600											
					Cement			Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
						40mm	43.200											

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
12.11 B.e (iv) Case II	Top Plug PCC Grade M30	Cum	8081.00	120.00	Stone Aggregate	20mm	43.200	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8218.40
						10mm	21.600											
					Cement			Tonne	0.405	0.405	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.f (i) Case II	Well Cap RCC Grade M20	Cum	7990.00	120.00	Stone Aggregate	40mm	0.000	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8127.40
						20mm	64.800											
						10mm	43.200											
					Cement			Tonne	0.341	0.341	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.f (ii) Case II	Well Cap RCC Grade M25	Cum	8840.00	120.00	Stone Aggregate	40mm	0.000	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	8977.40
						20mm	64.800											
						10mm	43.200											
					Cement			Tonne	0.403	0.403	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.f (iii) Case II	Well Cap RCC Grade M30	Cum	8863.00	120.00	Stone Aggregate	40mm	0.000	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9000.40
						20mm	64.800											
						10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.11 B.f (iv) Case II	Well Cap RCC Grade M35	Cum	9030.00	120.00	Stone Aggregate	40mm	0.000	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9167.40
						20mm	64.800											
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)	
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)			
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17	
12.39	Levelling course for Pile Cap	Cum	5383.00	15.00	Stone Aggregate	40mm	8.100	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	5520.40	
						20mm	4.050												
						10mm	1.350												
					Cement			4.13	Tonne	0.275	0.275	0.00	0.00	0	0	0			0.00
					Coarse Sand			6.75	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
12.40.a(i)	HYSD	Mt	73279.00	1.00	HYSD		1.05	Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	73279.00	
					Binding wire (8Kg)		4.13	Tonne	0.004	0.004	0.00	0.00	0	0	0		0.00		
SUB STRUCTURE																			
13.5.B.b	PCC Grade M20	Cum	8120.00	15.00	Stone Aggregate	40mm	5.400	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	8257.40	
						20mm	5.400												
						10mm	2.700												
					Cement			5.16	Tonne	0.344	0.344	0.00	0.00	0	0	0			0.00
					Coarse Sand			6.75	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
13.5.B.e (i) Case II	RCC Grade M20 (Height upto 5m)	Cum	8761.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	8898.40	
						10mm	43.200												
					Cement			41.66	Tonne	0.347	0.347	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
13.5.B.e (ii) Case II	RCC Grade M20 (Height 5m to 10m)	Cum	9080.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9217.40	
						10mm	43.200												
					Cement			41.66	Tonne	0.347	0.347	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
13.5.B.e (iii) Case II	RCC Grade M20 (Height above 10m)	Cum	9478.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9615.40	
						10mm	43.200												
					Cement			41.66	Tonne	0.347	0.347	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
13.5.B.f (i) Case II	RCC Grade M25 (Height upto 5m)	Cum	8917.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9054.40	
						10mm	43.200												
					Cement			48.38	Tonne	0.403	0.403	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
					Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62		

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
13.5.B.f (ii) Case II	RCC Grade M25 (Height 5m to 10m)	Cum	9209.00	120.00	Aggregate	10mm	43.200	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9346.40
					Cement		48.38	Tonne	0.403	0.403	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
13.5.B.f (iii) Case II	RCC Grade M25 (Height above 10m)	Cum	9646.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9783.40
					Aggregate	10mm	43.200											
					Cement		48.38	Tonne	0.403	0.403	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
13.5.B.g (i) Case II	RCC Grade M30 (Height upto 5m)	Cum	8965.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9102.40
					Aggregate	10mm	43.200											
					Cement		48.8	Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
13.5.B.g (ii) Case II	RCC Grade M30 (Height 5m to 10m)	Cum	9217.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9354.40
					Aggregate	10mm	43.200											
					Cement		48.8	Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
13.5.B.g (iii) Case II	RCC Grade M30 (Height above 10m)	Cum	9576.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9713.40
					Aggregate	10mm	43.200											
					Cement		48.8	Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
13.5.B.h (i) Case II	RCC Grade M35 (Height upto 5m)	Cum	9169.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9306.40
					Aggregate	10mm	43.200											
					Cement		50.64	Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
13.5.B.h (ii) Case II	RCC Grade M35 (Height 5m to 10m)	Cum	9369.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9506.40
					Aggregate	10mm	43.200											
					Cement		50.64	Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)	
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)			
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17	
13.5.B.h (iii) Case II	RCC Grade M35 (Height above 10m)	Cum	9670.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9807.40	
					10mm	43.200													
					Cement			50.64	Tonne	0.422	0.422	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
13.6.a(i)	HYSD	Tonne	73343.00	1.00	HYSD		1.05	Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	73343.00	
					Binding wire (8Kg)		6.00	Tonne	0.01	0.01	0.00	0.00	0	0	0		0.00		
13.9.A	Back filling (Granular Material)	Cum	1524.00	10.00	Granular Material		12.00	Cum	1.2	2.4	0.00	0.00	11.40	7.163	0.5		178.04	1702.04	
13.10	providing and laying of Filter media	Cum	1766.00	10.00	stone aggregate of required size		12.00	Cum	1.2	2.40	0.00	0.00	11.40	7.163	0.5		178.04	1944.04	
13.8	Providing Weep holes	each	204.00	30.00	Cement		0.51	Tonne	0.017	0.017	0.00	0.00	0	0	0		0.00	206.16	
					Sand		1.05	Cum	0.035	0.063	0.00	0.00	2.6	0	3		2.16		
					AC Pipe 100mm dia (2.94Kg/M)		31.50	Tonne	0.003087	0.003087	0.00	0.00	0	0	0		0.00		
					MS Clamp (3Kg/No)		30.00	Tonne	0.0030	0.0030	0.00	0.00	0	0	0		0.00		
					Collar for AC Pipe (2Kg/each)		10.00	Tonne	0.00066667	0.000667	0.00	0.00	0	0	0		0.00		
SUPER STRUCTURE																			
14.1.B (I) Case II (i).a	RCC Grade M20 for Solid Slab Super Structure (Height upto 5m)	Cum	9220.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9357.40	
					10mm	43.200													
					Cement			40.92	Tonne	0.341	0.341	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
14.1.B (I) Case II (i).b	RCC Grade M20 for Solid Slab Super Structure (Height 5m to 10m)	Cum	9604.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9741.40	
					10mm	43.200													
					Cement			40.92	Tonne	0.341	0.341	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
14.1.B (I) Case II (i).c	RCC Grade M20 for Solid Slab Super Structure (Height above10m)	Cum	9988.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10125.40	
					10mm	43.200													
					Cement			40.92	Tonne	0.341	0.341	0.00	0.00	0	0	0			0.00
					Coarse Sand			54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3			27.78
					Stone	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62		

Preparation of Final DPR for
4-laning og Daboka - Dimapur Section (Length 130.167Km)
of NH - 36&39 - Dimapur Bypass (Assam Part)

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
14.1.B (I) Case II (ii).a	RCC Grade M20 for T - Beam & Slab (Height upto 5m)	Cum	9604.00	120.00	Aggregate	10mm	43.200	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	9741.40
					Cement		40.92	Tonne	0.341	0.341	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (I) Case II (ii).b	RCC Grade M20 for T - Beam & Slab (Height 5m to 10m)	Cum	9988.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	10125.40
						10mm	43.200											
					Cement		40.92	Tonne	0.341	0.341	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (I) Case II (ii).c	RCC Grade M20 for T - Beam & Slab (Height above10m)	Cum	10372.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	10509.40
						10mm	43.200											
					Cement		40.92	Tonne	0.341	0.341	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.00	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (II) Case II (i).a	RCC Grade M25 for Solid Slab Super Structure (Height upto 5m)	Cum	10167.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	10304.51
						10mm	43.200											
					Cement		47.95	Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.20	Cum	0.452	0.813	0.00	0.00	2.6	0	3		27.89	
14.1.B (II) Case II (i).b	RCC Grade M25 for Solid Slab Super Structure (Height 5m to 10m)	Cum	10591.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	10728.51
						10mm	43.200											
					Cement		47.95	Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.20	Cum	0.452	0.813	0.00	0.00	2.6	0	3		27.89	
14.1.B (II) Case II (i).c	RCC Grade M25 for Solid Slab Super Structure (Height above10m)	Cum	11014.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	11151.51
						10mm	43.200											
					Cement		47.95	Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.20	Cum	0.452	0.81300	0.00	0.00	2.6	0	3		27.89	
14.1.B (II) Case II (ii).a	RCC Grade M25 for T - Beam & Slab (Height upto 5m)	Cum	10591.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10728.51
						10mm	43.200											
					Cement		47.95	Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand		54.20	Cum	0.452	0.813	0.00	0.00	2.6	0	3		27.89	

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
14.1.B (II) Case II (ii).b	RCC Grade M25 for T - Beam & Slab (Height 5m to 10m)	Cum	11014.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11151.51
					Aggregate	10mm	43.200											
					Cement			Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.452	0.813	0.00	0.00	2.6	0	3		27.89	
14.1.B (II) Case II (ii).c	RCC Grade M25 for T - Beam & Slab (Height above10m)	Cum	11438.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11575.51
					Aggregate	10mm	43.200											
					Cement			Tonne	0.400	0.400	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.452	0.813	0.00	0.00	2.6	0	3		27.89	
14.1.B (III) Case II (i).a	RCC Grade M30 for Solid Slab Super Structure (Height upto 5m)	Cum	10286.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10423.76
					Aggregate	10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.456	0.820	0.00	0.00	2.6	0	3		28.14	
14.1.B (III) Case II (i).b	RCC Grade M30for Solid Slab Super Structure (Height 5m to 10m)	Cum	10714.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10851.76
					Aggregate	10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.456	0.820	0.00	0.00	2.6	0	3		28.14	
14.1.B (III) Case II (i).c	RCC Grade M30 for Solid Slab Super Structure (Height above10m)	Cum	11143.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11280.76
					Aggregate	10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.456	0.820	0.00	0.00	2.6	0	3		28.14	
14.1.B (III) Case II (ii).a	RCC Grade M30 for T - Beam & Slab (Height upto 5m)	Cum	10714.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10851.76
					Aggregate	10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.456	0.820	0.00	0.00	2.6	0	3		28.14	
14.1.B (III) Case II (ii).b	RCC Grade M30 for T - Beam & Slab (Height 5m to 10m)	Cum	11143.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11280.76
					Aggregate	10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.456	0.820	0.00	0.00	2.6	0	3		28.14	

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AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
14.1.B (III) Case II (ii).c	RCC Grade M30 for T - Beam & Slab (Height above10m)	Cum	11571.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11708.76
						10mm	43.200											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.456	0.820	0.00	0.00	2.6	0	3		28.14	
14.1.B (IV) Case II (i).a	RCC /PSC Grade M35 for Solid Slab Super Structure (Height upto 5m)	Cum	10347.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10484.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (i).b	RCC /PSC Grade M35 for Solid Slab Super Structure (Height 5m to 10m)	Cum	10786.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10923.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (i).c	RCC /PSC Grade M35 for Solid Slab Super Structure (Height above10m)	Cum	11224.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11361.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (ii).a	RCC /PSC Grade M35 for T -Beam & Slab (Height upto 5m)	Cum	10786.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10923.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (ii).b	RCC /PSC Grade M35 for T -Beam & Slab (Height 5m to 10m)	Cum	11224.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11361.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (ii).c	RCC /PSC Grade M35 for T -Beam & Slab (Height above10m)	Cum	11662.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11799.40
						10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

Preparation of Final DPR for
4-laning og Daboka - Dimapur Section (Length 130.167Km)
of NH - 36&39 - Dimapur Bypass (Assam Part)

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AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
14.1.B (IV) Case II (iii).a	RCC /PSC Grade M35 for box girder & balanced cantilever (Height upto 5m)	Cum	12101.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	12238.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (iii).b	RCC /PSC Grade M35 for box girder & balanced cantilever (Height 5m to 10m)	Cum	12978.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	13115.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (IV) Case II (iii).c	RCC /PSC Grade M35 for box girder & balanced cantilever (Height above10m)	Cum	13855.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	13992.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.422	0.422	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (i).a	PSC Grade M40 for Solid Slab Super Structure (Height upto 5m)	Cum	10476.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	10613.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (i).b	PSC Grade M40 for Solid Slab Super Structure (Height 5m to 10m)	Cum	10920.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11057.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (i).c	PSC Grade M40 for Solid Slab Super Structure (Height above10m)	Cum	11364.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11501.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (ii).a	PSC Grade M40 for T - Beam & Slab (Height upto 5m)	Cum	10920.00	120.00	Stone	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11057.40
					Aggregate	10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

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Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
14.1.B (V) Case II (ii).b	PSC Grade M40 for T - Beam & Slab (Height 5m to 10m)	Cum	11364.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11501.40
						10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (ii).c	PSC Grade M40 for T - Beam & Slab (Height above10m)	Cum	11808.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	11945.40
						10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (iii).a	PSC Grade M40 for box girder & balanced cantilever (Height upto 5m)	Cum	12252.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	12389.40
						10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (iii).b	PSC Grade M40 for box girder & balanced cantilever (Height 5m to 10m)	Cum	13139.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	13276.40
						10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.1.B (V) Case II (iii).c	PSC Grade M40 for box girder & balanced cantilever (Height above10m)	Cum	14027.00	120.00	Stone Aggregate	20mm	64.800	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	14164.40
						10mm	43.200											
					Cement			Tonne	0.43	0.43	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.2 (a) (i)	HYSD	Tonne	77554.00	1.00	HYSD			Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	77554.00
					Binding wire (8Kg)			Tonne	0.008	0.008	0.00	0.00	0	0	0		0.00	
14.11(a)	RCC Grade M30 for Approach Slab	Cum	12025.00	1.00	Stone Aggregate	20mm	0.540	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	12162.40
						10mm	0.360											
					Cement			Tonne	0.406	0.406	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
					HYSD			Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	
					Binding wire (8Kg)			Tonne	0.008	0.008	0.00	0.00	0	0	0		0.00	

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Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
14.10	PCC Grade M15 leveling course below approach slab	Cum	5498.00	15.00	Stone Aggregate	40mm	8.100	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	5635.40
						20mm	4.050											
						10mm	1.350											
					Cement		4.13	Tonne	0.275	0.275	0.00	0.00	0	0	0		0.00	
					Coarse Sand		6.75	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
14.9	Drainage Spouts	each	10197.00	1.00	Corrosion resistant structural steel (4Kg)		4.00	Tonne	0.004	0.004	0.00	0.00	0	0	0		0.00	10197.00
					GI Pipe 100mm dia (12.5Kg/M)		6.00	Tonne	0.075	0.075	0.00	0.00	0	0	0		0.00	
					GI bolt 10mm dia (0.100Kg/No)		6.00	Tonne	0.0006	0.0006	0.00	0.00	0	0	0		0.00	
					Galvanised MS flat clamp (3kg/no)		2.00	Tonne	0.006	0.006	0.00	0.00	0	0	0		0.00	
15.2	Boulder apron laid in wire crates	Cum	2916.00	5.63	4mm GI wire crates woven in mesh size of 100 mm x 100 mm. (2.5Kg/Sqm)		22.00	Tonne	0.010	0.010	0.00	0.00	0	0	0		0.00	3062.25
					Stone		5.63	Cum	1	2	0.00	0.00	11.4	0	2.5		121.80	
					Stone Spalls		1.13	Cum	0.201	0.401	0.00	0.00	11.4	0	2.5		24.45	
15.4 A	providing and laying Pitching on Slope	Cum	1463.00	1.00	Stone weighing not less than 40kg		1.00	Cum	1.00	2.00	0.00	0.00	11.4	0	2.5		121.80	1609.16
					Stone spalls of minimum 25 mm size		0.20	Cum	0.2	0.4	0.00	0.00	11.4	0	2.5		24.36	
15.5	Providing and laying Filter material underneath pitching in slopes	Cum	1862.00	1.00	graded stone aggregate of required size		1.20	Cum	1.2	2.40	0.00	0.00	11.4	0	2.5		146.16	2008.16
9.2.(I).B Rate Analysis	RCC Pipe 1200mm dia	M	4161.20	12.50	Sand		0.18	Cum	0.0144	0.02592	0.00	0.00	2.6	0	3		0.89	4325.30
					Cement		0.14	Tonne	0.0112	0.0112	0.00	0.00	0	0	0		0.00	
					RCC Pipe NP4 (10nosx2.5m=25m)		10.00	Nos	0.800	1.133	0.00	0.00	0	0	0		0.00	
					Granular Material		13.75	Cum	1.1	2.2	0.00	0.00	11.40	7.163	0.5		163.21	
13.10	Providing and laying of Filter media with granular materials	Cum	1766.00	10.00	stone aggregate		12.00	Cum	1.2	2.40	0.00	0.00	11.40	7.163	0.5		178.04	1944.04

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
12.7.b	Random Rubble Masonry	Cum	3942.00	5.00	Stone		5.000	Cum	1	2.00	0.00	0.00	11.4	0	2.5		121.80	4110.25
					Bond Stone		0.786	Cum	0.157248	0.31	0.00	0.00	11.4	0	2.5		19.15	
					Cement		0.4785	Tonne	0.0957	0.0957	0.00	0.00	0	0	0		0.00	
					Coarse Sand		2.21	Cum	0.4422	0.79596	0.00	0.00	2.6	0	3		27.30	
15.9	Dry Rubble Flooring	Cum	1679.00	1.00	Stone		1.000	Cum	1	2.00	0.00	0.00	11.4	0	2.5		121.80	1825.16
					Stone Spalls		0.200	Cum	0.2	0.40	0.00	0.00	11.4	0	2.5		24.36	
15.10.B	Cement Concrete Grade M15	Cum	7046.00	15.00	Stone Aggregate	40mm	8.100	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	7183.40
						20mm	4.050											
						10mm	1.350											
					Cement		4.13	Tonne	0.275	0.275	0.00	0.00	0	0	0		0.00	
					Coarse Sand		6.75	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
15.11	Flexible Apron	Cum	1485.00	1.00	Stone	40mm	1.000	Cum	1.20	2.40	0.00	0.00	11.4	0	2.5		146.16	1631.16
					Stone	20mm	0.200											
TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES																		
8.1.B	Cast in Situ Cement Concrete M20 kerb	Metre	314.00	360.00	stone aggregate 20 mm		21.79	Cum	0.061	0.121	0.00	0.00	11.4	0	2.5		7.37	328.32
					Sand		10.90	Cum	0.030	0.055	0.00	0.00	2.6	0	3		1.87	
					Cement		5.70	Tonne	0.016	0.016	0.00	0.00	0	0	0		0.00	
					Water		30.00	Tonne	0.0833	0.08333333	0.00	0.00	11.4	0	2.5		5.08	
8.2.B	Cast in Situ Cement Concrete M20 kerb with channel	Metre	596.00	300.00	stone aggregate 20 mm		36.59	Cum	0.122	0.244	0.00	0.00	11.4	0	2.5		14.86	621.93
					Sand		18.30	Cum	0.061	0.1098	0.00	0.00	2.6	0	3		3.77	
					Cement		9.01	Tonne	0.030	0.030	0.00	0.00	0	0	0		0.00	
					Water		36.00	Tonne	0.12	0.12	0.00	0.00	11.4	0	2.5		7.31	
8.3.(ii)	Printing New Letter and Figures of any Shade English and Roman	per cm height per letter	0.40	1600.00	Paint		0.600	Tonne	3.75E-07	3.75E-07	0.00	0.00	0	0	0		0.00	0.40

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required		Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
8.4	Retro-Reflectorised Traffic Signs	each		1	Mild steel angle iron 75x75x6mm	19.00	Tonne	0.019	0.02	0.00	0.00	0	0	0		0.00	Add 2% for Driling holes (81120/1000x19)x2%
					Cement	0.03	Tonne	0.03304	0.03304	0.00	0.00	0	0	0		0.00	
					Stone Aggregate	0.11	Cum	0.108	0.216	0.00	0.00	11.4	0	2.5		13.15	
					Sand	0.05	Cum	0.054	0.0972	0.00	0.00	2.6	0	3		3.33	
(i)	90 Cm equilateral triangle	each	4900.00	1	90 Cm equilateral triangle (14.175Kg/Sqm)	0.35	Tonne	0.004961	0.00496125	0.00	0.00	0	0	0		0.00	4947.31
(ii)	60 Cm equilateral triangle	each	3595.00	1	60 Cm equilateral triangle (14.175Kg/Sqm)	0.156	Tonne	0.0022113	0.0022113	0.00	0.00	0	0	0		0.00	3642.31
(iii)	60 Cm Circular	each	4200.00	1	60 Cm Circular (14.175Kg/Sqm)	0.283	Tonne	0.00401153	0.00401153	0.00	0.00	0	0	0		0.00	4247.31
(iv)	80 mm x 60 mm rectangular	each	5300.00	1	80 mm x 60 mm rectangular (14.175Kg/Sqm)	0.480	Tonne	0.006804	0.006804	0.00	0.00	0	0	0		0.00	5347.31
(v)	60 cm x 45 cm rectangular	each	5200.00	1	60 cm x 45 cm rectangular (14.175Kg/Sqm)	0.270	Tonne	0.00382725	0.00382725	0.00	0.00	0	0	0		0.00	5247.31
(vi)	60 cm x 60 cm square	each	5200.00	1	60 cm x 60 cm square (14.175Kg/Sqm)	0.360	Tonne	0.005103	0.005103	0.00	0.00	0	0	0		0.00	5247.31
(vii)	90 cm high octagon	each	7850.00	1	90 cm high octagon (14.175Kg/Sqm)	0.672	Tonne	0.0095256	0.0095256	0.00	0.00	0	0	0		0.00	7897.31
8.5	Direction and Place Identification signs upto 0.9 sqm size board.	Sqm	10000.00	0.900	Mild steel angle iron 75 mm x 75 mm x 6 mm, 2.85 metres long	19.00	Tonne	0.02	0.02	0.00	0.00	0	0	0		0.00	Add 2% for Driling holes (16244.86x0.900)x2%
					Cement	0.03	Tonne	0.03671111	0.03671111	0.00	0.00	0	0	0		0.00	
					Stone Aggregate	0.11	Cum	0.12	0.24	0.00	0.00	11.4	0	2.5		14.62	
					Sand	0.05	Cum	0.06	0.108	0.00	0.00	2.6	0	3		3.70	
					Aluminium sheeting fixed with encapsulated lens type reflective	0.90	Tonne	0.01418	0.01418	0.00	0.00	0	0	0		0.00	
8.6	Direction and Place Identification signs with size more than 0.9 sqm size board.	Sqm	11000.00	1.500	Mild steel angle iron 75 mm x 75 mm x 6 mm, 2.85 metres long, 2 nos	38.00	Tonne	0.03	0.03	0.00	0.00	0	0	0		0.00	Add 2% for Driling holes (16244.86x1.500)x2%
					Cement	0.07	Tonne	0.04405333	0.04405333	0.00	0.00	0	0	0		0.00	
					Stone Aggregate	0.22	Cum	0.144	0.288	0.00	0.00	11.4	0	2.5		17.54	
					Sand	0.11	Cum	0.072	0.1296	0.00	0.00	2.6	0	3		4.45	
					Aluminium sheeting fixed with encapsulated lens type reflective	1.50	Tonne	0.014	0.014	0.00	0.00	0	0	0		0.00	

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required		Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
8.7.A	Overhead Signs Truss and Vertical Support	Tonne	98500.00	1.000	Aluminium alloy/galvanised steel including 5 per cent wastage	1.05	Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	98500.00
8.7.B	Overhead Signs Aluminium alloy plate for over head sian	Sqm	6000.00	1.000	Aluminium alloy plate,2 mm thick, fixed with high intensity grade sheeting vide clause 801.3 (14.175Ka/Sam)	1.00	Tonne	0.01	0.01	0.00	0.00	0	0	0		0.00	6000.00
8.8	Painting Two Coats on New Concrete Surfaces	Sqm	55.00	40.000	Paint conforming to requirement of clause 803.3.	6.00	Tonne	0.00015	0.0002	0.00	0.00	0	0	0		0.00	55.00
8.9	Painting on Steel Surfaces	Sqm	48.00	10.000	Paint ready mixed approved brand.	1.25	Tonne	0.00013	0.00013	0.00	0.00	0	0	0		0.00	48.00
8.11 (i)	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work Over 10 cm in width	Sqm	74.00	10.000	Road marking Paint as per IS:164	1.48	Tonne	0.000148	0.0001	0.00	0.00	0	0	0		0.00	74.00
8.11 (ii)	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work Up to 10 cm in width	Sqm	63.00	10.000	Road marking Paint as per IS:164	1.48	Tonne	0.000148	0.0001	0.00	0.00	0	0	0		0.00	63.00
8.13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous	Sqm	750.00	600.000	Hot applied thermoplastic compound	1500.00	Tonne	0.0025	0.0025	0.00	0.00	0	0	0		0.00	750.00
					Reflectorising glass beads	150.00	Tonne	0.00025	0.00025	0.00	0.00	0	0	0		0.00	
8.14 (i)	5th kilometre stone (precast)	nos	3869.00	6	Cement (4.13/15)X2.35	0.65	Tonne	0.10783889	0.10783889	0.00	0.00	0	0	0		0.00	3922.82
					Stone Aggregate	2.12	Cum	0.3525	0.705	0.00	0.00	11.4	0	2.5		42.93	
					Sand	1.06	Cum	0.17625	0.31725	0.00	0.00	2.6	0	3		10.88	
					HYSD (1.05/1000)x22.08Kg	0.023184	Tonne	0.0000039	0.0000039	0.00	0.00	0	0	0		0.00	
					Binding wire (6/1000)KgX22.08	0.13	Tonne	0.000022	0.000022	0.00	0.00	0	0	0		0.00	
					Paint conforming (6/40x9.85) liter	1.48	Tonne	0.00025	0.00025	0.00	0.00	0	0	0		0.00	

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AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required		Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
8.14 (ii)	Ordinary Kilometer stone	nos	2431.00	14	Cement (4.13/15)X3.77	1.04	Tonne	0.07414333	0.07414333	0.00	0.00	0	0	0		0.00	2468.00
					Stone Aggregate	3.39	Cum	0.24235714	0.48471429	0.00	0.00	11.4	0	2.5		29.52	
					Sand	1.70	Cum	0.12117857	0.21812143	0.00	0.00	2.6	0	3		7.48	
					HYSD (1.05/1000)x26.320Kg	0.027636	Tonne	0.0000020	0.0000020	0.00	0.00	0	0	0		0.00	
					Binding wire (6/1000)KgX26.320	0.16	Tonne	0.000011	0.00001	0.00	0.00	0	0	0		0.00	
					Paint conforming (6/40x11.410) liter	1.71	Tonne	0.000122	0.000122	0.00	0.00	0	0	0		0.00	
8.14 (iii)	Hectometer stone	nos	628.00	33	Cement (4.13/15)X1.58	0.44	Tonne	0.01318263	0.01318263	0.00	0.00	0	0	0		0.00	634.58
					Stone Aggregate	1.42	Cum	0.04309091	0.08618182	0.00	0.00	11.4	0	2.5		5.25	
					Sand	0.71	Cum	0.02154545	0.03878182	0.00	0.00	2.6	0	3		1.33	
					HYSD (1.05/1000)x66Kg	0.0693	Tonne	0.0000021	0.0000021	0.00	0.00	0	0	0		0.00	
					Binding wire (6/1000)KgX66	0.40	Tonne	0.000012	0.000012	0.00	0.00	0	0	0		0.00	
					Paint conforming (6/40x6.27) liter	0.94	Tonne	0.000029	0.000029	0.00	0.00	0	0	0		0.00	
8.16	Boundary pillar	nos	592.00	57	Cement (4.13/15)X1.58	0.34	Tonne	0.00603801	0.00603801	0.00	0.00	0	0	0		0.00	620.59
					Stone Aggregate	1.13	Cum	0.01973684	0.03947368	0.00	0.00	11.4	0	2.5		2.40	
					Sand	0.56	Cum	0.00986842	0.01776316	0.00	0.00	2.6	0	3		0.61	
					HYSD (1.05/1000)x66Kg	0.08379	Tonne	0.0000015	0.0000015	0.00	0.00	0	0	0		0.00	
					Binding wire (6/1000)KgX66	0.48	Tonne	0.0000084	0.0000084	0.00	0.00	0	0	0		0.00	
					Stone spall	11.97	Cum	0.21	0.4200	0.00	0.00	11.4	0	2.5		25.58	
8.23.A	Type - A, "W" : Metal Beam Crash Barrier	M	3475.00	4.5	Corrugated sheet,3 mm thick, "W" beam section railing,4.5 m in length	41.210	Tonne	0.009	0.00916	0.00	0.00	0	0	0		0.00	3475.00
					Channel post 150 x 75 x 5 mm,1.8 m long,3	88.560	Tonne	0.020	0.020	0.00	0.00	0	0	0		0.00	
					Spacer 150 x 75 x 5 mm channel 0.33 m long,3 Nos @ 16.4 kg per metre	16.240	Tonne	0.004	0.004	0.00	0.00	0	0	0		0.00	
					Nuts and bolts	20.000	Tonne	0.00444	0.00444	0.00	0.00	0	0	0		0.00	

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AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required		Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
15.8.A	Providing and laying flooring	Cum	5273.00	1.00	Stone		Cum	1	2	0.00	0.00	11.4	0	2.5		121.80	5419.16
					Stone Spalls		Cum	0.2	0.4	0.00	0.00	11.4	0	2.5		24.36	
12.7.a	Stone masonry work in cement mortar	Cum	4333.00	5.00	Cement		Tonne	0.153	0.153	0.00	0.00	0	0	0		0.00	4378.03
					Sand		Cum	0.315	0.567	0.00	0.00	2.6	0	3		19.45	
					Stone		Cum	0.21	0.42	0.00	0.00	11.4	0	2.5		25.58	
7.5 (i)	Facing elements of RCC	Sqm	1947.00	75.00	Stone Aggregate	20mm	Cum	0.16	0.32	0.00	0.00	11.4	0	2.5		19.73	1971.73
						10mm											
					HYSD @ 5kg/Sqm		Tonne	0.00506667	0.00506667	0.00	0.00	0	0	0		0.00	
					Cement		Tonne	0.07596	0.07596	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.081	0.1458	0.00	0.00	2.6	0	3		5.00	
8.22 (ii)	Reinforced cement concrete crash barrier M-40	Rm	4209.00	10.00	HYSD steel		Tonne	0.028	0.028	0.00	0.00	0	0	0		0.00	4209.00
					Premoulded asphalt filler borad (1sqm=0.0008		Cum	0.0008	0.00144	0.00	0.00	0	0	0		0.00	
13.5 .B.d.(i) case II	PCC Grade M30	Cum	8889.00	120.00	Stone Aggregate	40mm	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	9026.40
						20mm											
						10mm											
					Cement		Tonne	0.405	0.405	0.00	0.00	0	0	0		0.00	
					Coarse Sand		Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
8.29 (i)	Cable Duct Across the Road Single Row for one utility service	M	3517.00	20	Cement (0.67x0.020)		Tonne	0.00067	0.00067	0.00	0.00	0	0	0		0.00	3560.91
					Granular soil		Cum	0.36	0.72	0.00	0.00	11.4	0	2.5		43.85	
					Sand (0.93x0.020)		Cum	0.00093	0.001674	0.00	0.00	2.6	0	3		0.06	
					Reinforced cement concrete pipe 300mm dia (180Kg/m)		Tonne	0.1800000	0.1800000	0.00	0.00	0	0	0		0.00	
					Collar for joint 300 mm dia (50kg/No)		Tonne	0.02	0.0450	0.00	0.00	0	0	0		0.00	

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AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required		Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
										Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17
8.29 (ii)	Cable Duct Across the Road Double Row for two utility services	M	6806.00	20	Cement (0.67x0.040)	0.03	Tonne	0.00134	0.00134	0.00	0.00	0	0	0		0.00	6893.81
					Granular soil	14.40	Cum	0.72	1.44	0.00	0.00	11.4	0	2.5		87.70	
					Sand (0.93x0.040)	0.04	Cum	0.00186	0.003348	0.00	0.00	2.6	0	3		0.11	
					Reinfoeced cement concrete pipe 300mm dia(180Kg/m)	7200	Tonne	0.3600000	0.3600000	0.00	0.00	0	0	0		0.00	
					Collar for joint 300 mm dia (50kg/No)	900.00	Tonne	0.05	0.0900	0.00	0.00	0	0	0		0.00	
Rate Analysis 8.35	Road Markers/Road Stud with Lense Reflector	each	0.00	50	100 mm x 100 mm (14.175Kg/Sqm)	0.010	Tonne	2.835E-06	2.835E-06	0.00	0.00	0	0	0		0.00	0.00
12.3 & 12.21	Sand Filling	Cum	1798.00	1	Sand	1.200	Cum	1.2	2.16	0.00	0.00	2.6	7.163	1		102.78	1900.78
12.10	Cutting edge of mild steel	Tonne	101302.00	1.00	Structural steel in plates, angles etc	1.05	Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	101302.00
					Nuts and bolts	20.00	Tonne	0.02	0.02	0.00	0.00	0	0	0		0.00	
12.11.B. e (ii) Case I	Top Plug PCC Grade M20	Cum	7381.00	15.00	Stone Aggregate	40mm		Cum	0.9	1.80	0.00	0.00	11.4	0	2.5	109.62	7518.40
						20mm	5.400										
						10mm	2.700										
					Cement	5.16	Tonne	0.344	0.344	0.00	0.00	0	0	0		0.00	
					Coarse Sand	6.75	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
12.24.B	Bored cast in situ M35 (pile dia 1000m)	M	11357.00	10.00	Stone Aggregate	20mm		Cum	0.7065	1.41	0.00	0.00	11.4	0	2.5	86.05	11464.86
						10mm	2.826										
					Cement	3.28915	Tonne	0.329	0.329	0.00	0.00	0	0	0		0.00	
					Coarse Sand	3.53	Cum	0.35325	0.63585	0.00	0.00	2.6	0	3		21.81	
12.38 B .III (ii)	Pile Cap	Cum	8931.00	15.00	Stone Aggregate	20mm		Cum	0.9	1.80	0.00	0.00	11.4	0	2.5	109.62	9068.40
						10mm	5.400										
					Cement	6.1	Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand	6.75	Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	

**ANALYSIS OF RATES WITH BASIC ITEM RATES AND LOADING, UNLOADING & HAULAGE BASED ON LEAD
AS PER SOR 2013-14 FOR NATIONAL HIGHWAYS UNDER ASSAM P.W (BUILDING & NH) DEPTT, GOVERNMENT OF ASSAM**

Rate/t.Km	
Surface	3.50
Unsurface	4.20
Katcha	8.40

SOR Item No	Item Description	Unit	Basic Rate as Per SOR Assam 2013-14 (In Rs.)	Output Taken	Materials Required			Unit	Quantity	Weight in-t	Loding & Unloading		Haulage				Cost for Haulage (Rs)	Final Rate (Rs) (4+11+16)
											Rate (Rs.)	Amount (Rs.) (8x10)	Surface Road (Km)	Unsurface Gravel Road (Km)	Katcha Track Road (Km)	Head Load (m)		
1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16	17
12.25.B	Bored cast in situ M35 (pile dia 1200m)	M	14953.00	9.00	Stone	20mm	5.492	Cum	1.017	2.03	0.00	0.00	11.4	0	2.5		123.87	15108.27
					Aggregate	10mm	3.661											
					Cement			Tonne	0.473	0.473	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.5085	0.9153	0.00	0.00	2.6	0	3		31.39	
12.38 B .II (ii)	Pile Cap M25	Cum	8844.00	15.00	Stone	20mm	8.100	Cum	0.9	1.80	0.00	0.00	11.4	0	2.5		109.62	8981.40
					Aggregate	10mm	5.400											
					Cement			Tonne	0.399	0.399	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.45	0.81	0.00	0.00	2.6	0	3		27.78	
7.5(ii) A type 5	Glass reinforced polymer/fibre reinforced polymer/polymeric strip	M	883.00	450.000	Glass reinforced polymer/fibre reinforced polymer/polymeric strip (2.355Kh/m)			Tonne	0.00259	0.00259	0.00	0.00	0	0	0		0.00	883.00
14.4	Cement Concrete wearing coat Grade M30	Cum	12993.00	1.00	Stone	40mm	0.000	Cum	0.90	1.80	0.00	0.00	11.4	0	2.5		109.62	13130.71
					Aggregate	20mm	0.540											
					Aggregate	10mm	0.360											
					Cement			Tonne	0.407	0.407	0.00	0.00	0	0	0		0.00	
					Coarse Sand			Cum	0.455	0.819	0.00	0.00	2.6	0	3		28.09	
					HYSD			Tonne	1.05	1.05	0.00	0.00	0	0	0		0.00	
					Binding wire (8Kg)			Tonne	0.008	0.008	0.00	0.00	0	0	0		0.00	

RATE ANALYSIS FOR PRINTING NEW LETTERS

Sl No.	Ref : SOR 2013-14	Brief Description of Item	Unit	Rate (Rs)	Remarks
1	8.3.(II)	Printing new letter and figures of any shade (Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade)			
		English and Roman (Hyphens and the like not to be measured and paid for letter height 16cm	Cm	0.40	
		Printing New Letter (16x 0.40=6.40)	No	6.40	

RATE ANALYSIS FOR 90CM CIRCULAR TRAFFIC SIGN

Sl No.	Ref : SOR 2013-14	Brief Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)	Remarks
1	8.4	Retro- reflectorised Traffic signs Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing					
	(iii)	60 cm circular	each	1	4,200.00	4,200.00	(A)
		Material Cost 53% of total cost for 60cm circular	Sqm	0.283		2,226.00	(B)
		Others Cost 47% of Total cost for 60cm circular (A-B)				1,974.00	(C)
		Material cost for 90cm Circular @ same rate sqm of 60cm circular	Sqm	0.636		5,002.60	(D)
		Extra material cost of 90cm circular (B-D)				2,776.60	(E)
		Extra over head charges@10% on extra Material Cost of (E)				277.66	(F)
		Total (E+F)				3,054.26	(G)
		Contractor's profit @10% on Total (G)				305.43	(H)
		Total (G+H)				3,359.69	(I)
		Total Cost For (C+D+I)				10,336.29	
		Rate Per No				10,336.00	

RATE ANALYSIS FOR ROAD MARKERS/ROAD STUD WITH LENSE REFLECTOR							
Item No	Ref : SOR 2013-14	Description	Unit	Quantity	Rate Rs	Cost Rs	Remarks/ Input ref.
8.35		Road Markers/Road Stud with Lense Reflector					
		Providing and fixing of road stud 100x 100 mm, die-cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973					
		Unit = Nos					
		Taking output = 50Nos					
		a) Labour					
		Mate	day	0.040	280.00	11.20	L-12
		Mazdoor	day	1.000	130.00	130.00	L-13
		b) Material					
		Aluminium studs 100 x 100 mm fitted with lense reflectors	each	50.000	981.77	49088.50	M-062
		Add 10 per cent. of cost of material for fixing and installation				4908.85	
		c) Overhead charges @ 10 % on (a+b)				5413.86	
		d) Contractor's profit @ 10 % on (a+b+c)				5955.24	
		Cost for 50 studs = a+b+c+d				65507.65	
		Rate per studs = (a+b+c+d)/50				1310.15	
					say	1310.15	

RATE ANALYSIS FOR ROAD DELINEATORS							
Item No	Ref : SOR 2013-14	Description	Unit	Quantity	Rate Rs	Cost Rs	Remarks/ Input ref.
8.15		Road Delineators					
		Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings.					
		Unit = Each					
		Taking output= 30 Nos.					
		a) Labour					
		Mate	day	0.040	280.00	11.20	L-12
		Mazdoor for fixing	day	1.000	130.00	130.00	L-13
		b) Material					
		Cost of approved type of delineators from ISI certified firm as per the standard drawing given in IRC - 79	each	30.000	3244.80	97344.00	M-091
		Add 10 per cent cost of material for installation				9734.40	
		c) Overhead charges @ 10 % on (a+b)				10721.96	
		d) Contractor's profit @ 10 % on (a+b+c)				11794.16	
		Cost for 30 Nos. delineators = (a+b+ c+d)				129735.72	
		Rate per delineators = (a+b+c+d) /30				4324.52	
					say	4324.52	

REINFORCED CEMENT CONCRETE PIPE NP4 (DIA 1200MM)								
Sr No	Ref. to MoRTH Spec		Description	Unit	Quantity	Rate Rs	Cost Rs	Remarks/ Input ref.
9.2	2900		Laying Reinforced Cement Concrete Pipe NP4 / Prestressed Concrete Pipe on First Class Bedding in Single Row					
			Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets.					
			<i>Unit = metre</i>					
			<i>Taking output = 12.5 metres (5 pipes of 2.5 m length each)</i>					
		B	1200 mm dia					
			a) Labour					
			Mate	day	0.280	280.00	78.40	L-12
			Mason	day	1.000	300.00	300.00	L-11
			Mazdoor	day	6.000	130.00	780.00	L-13
			b) Material					
			Sand at site	cum	0.090	1000.00	90.00	M-005
			Cement at site	tonne	0.070	7600.00	532.00	M-086
			RCC pipe NP-4/prestressed concrete pipe including collar at site	metre	12.500	8820.00	110250.00	M-156
			Granular material passing 5-6 mm sieve for class bedding	cum	5.000	832.24	4161.20	M-009
			c) Overhead charges @ 10 % on (a+b)				11619.16	
			d) Contractor's profit @ 10 % on (a+b+c)				12781.08	
			Cost for 12.5 metres = a+b+c+d				140591.84	
			Rate per metre= (a+b+c+d)/12.5				11247.35	
						say	11247.00	

RATE ANALYSIS FOR BUS BAY

<i>Item No.</i>	<i>Ref : SOR 2013-14</i>	<i>Description</i>	<i>Unit</i>	<i>No</i>	<i>Length (M)</i>	<i>Breadth (M)</i>	<i>Height (M)</i>	<i>Quantity</i>	<i>Rate (Rs.)</i>	<i>Amount (Rs.)</i>
11.11	2.3 (ii) A	Clearing and Grubbing Road Land. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.) In area of thorny jungle	Ha	2	71.000	8.000	-	0.114	39722.00	4512.42
	3.16 (a)	Embankment Construction with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2) (Within a lead of 5Km.)	Cum	2	71.000	8.000	2.100	2385.600	201.00	479505.60
	3.18 (a)	Construction of Subgrade and Earthen Shoulders Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2	Cum	2	71.000	7.500	0.500	532.500	235.00	125137.50
	4.2.(i)	Granular Sub-Base with Coarse Graded Material Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401)	Cum	2	71.000	6.000	0.115	97.980	2150.91	210746.41
		For Ramp Gr-I	Cum	2	30.000	2.000	0.115	13.800	2150.91	29682.59
	4.2.(ii)	Granular Sub-Base with Coarse Graded Material Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401)	Cum	2	71.000	6.000	0.115	97.980	2217.91	217311.07
		For Ramp Gr-II	Cum	2	30.000	2.000	0.115	13.800	2217.91	30607.19

RATE ANALYSIS FOR BUS BAY

<i>Item No.</i>	<i>Ref : SOR 2013-14</i>	<i>Description</i>	<i>Unit</i>	<i>No</i>	<i>Length (M)</i>	<i>Breadth (M)</i>	<i>Height (M)</i>	<i>Quantity</i>	<i>Rate (Rs.)</i>	<i>Amount (Rs.)</i>
11.11	6.1	Dry Lean Cement Concrete Sub Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.	Cum	2	71.000	6.000	0.100	85.200	3717.97	316770.84
	6.2	Cement Concrete Pavement Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and	Cum	2	71.000	6.000	0.250	213.000	8442.96	1798350.57
	Rate Analysis	Bus Bay Shelter (As per Drawing)	Nos	1	-	-	-	1	112563.72	112563.72

RATE ANALYSIS FOR BUS BAY

<i>Item No.</i>	<i>Ref : SOR 2013-14</i>	<i>Description</i>	<i>Unit</i>	<i>No</i>	<i>Length (M)</i>	<i>Breadth (M)</i>	<i>Height (M)</i>	<i>Quantity</i>	<i>Rate (Rs.)</i>	<i>Amount (Rs.)</i>
11.11	8.2.B	Cast in Situ Cement Concrete M 20 Kerb with Channel Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 408	Rm	2	30.000	-	-	60.000	621.93	37315.78
	4.2.(i)	Granular Sub-Base with Coarse Graded Material (Table:- 400- Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 Gr-I	Cum	2	30.000	2.000	0.300	36.000	2150.91	77432.85
	8.8	Painting two coats on new concrete surface painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surface	Sqm	-	-	-	-	25.000	55.00	1375.00
								PER NO COST (In Rs.)		3441311.55
								Add 5% for other		172065.58
								Percentage Increase Add 10% for Karbi Anglong District as per SOR		361337.71
								Add 10% for Escalation		397471.48
								Rate Per / No (In Rs.)		4372186.33

RATE ANALYSIS FOR PASSENGER BUS SHELTER

Ref : SOR 2013-14	Brief Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
12.1	Excavation for Structures Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approval material				
12-1-(I)- A(a) (i)	(i) upto 3m depth	Cum	12.179	65.00	791.65
12.8	Plain/ Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. Including steel shuttering formwork				
B	B. With plasticiser (Masterplast PL-1/SPL-2 or equivalent), air entraining and water reducing plasticiser (Masterplast PAE or equivalent) and accelerating plasticiser (masterplast ACPL or equivalent) conforming to IS-9103-1999.				
(a)	PCC Grade M15	Cum	0.739	0.00	0.00
13.5	Plain/ Reinforced Cement Concrete in sub structure complete as per Drawing and Technical Specifications and steel shuttering formwork				
B	B. With plasticiser (Masterplast PL-1/SPL-2 or equivalent), air entraining and water reducing plasticiser (Masterplast PAE or equivalent) and accelerating plasticiser (masterplast ACPL or equivalent) conforming to IS-9103-1999.				
f (i)	RCC Grade M25				
Case II	With Batching Plant, Transit Mixer and Concrete Pump	Cum	3.078	0.00	0.00
13.6	Supplying, Fitting and Placing un-coated TMTbar Reinforcement in sub structure Complete as per Drawing and Technical Specifications				
(a)	From Primary Sources : TATA/ SAIL/ Esser Steel/ Jindal Steel/ Shyam Steel				
(i)	TMT Corrosion Resistant Steel (CRS) reinforcement bar of Fe-500 N/mm ²	Tonne	0.39	0.00	0.00
8.8	Painting Two Coats on new Concrete surface Painting two coats after filling the surface with synthetic enamel paints in all shades on new plastered concrete surface	Sqm	66.46	55.00	3,655.13
13.1	Brick masonry work in 1:3 in sub-structure complete excluding pointing and plastering, as per drawing and technical specifications	Cum	1.16	7,032.00	8,183.49
13.3	Plastering with cement mortar (1:3) on brick work in sub-structure as per technical specifications	Sqm	67.97	126.00	8,564.14

RATE ANALYSIS FOR PASSENGER BUS SHELTER

Ref : SOR 2013-14	Brief Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
Building SOR 2013-14 8.1.8 -A(a)	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth upto 1st floor level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately (A) 112mm thick brick wall (a) In cement mortar in proportion 1:4	Sqm	19.88	653.01	12,981.84
DSR 2014 13.18	Neat cement puning	Sqm	1.51	41.40	62.62
Building SOR 2013-14 4.1.1 (a)	Providing soling in foundation and under floor with stone/best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete (a) brick on flat soling	Sqm	9.64	368.71	3,555.75
Building SOR 2013-14 5.1.3	40mm thick cement concrete floor consisting of 25mm under layer of cement concrete in prop 1:3:6 (aggregate of 12.5 mm and down) and 15mm thick wearing layer in cement concrete in prop 1:1:2 (aggregate of size 10mm down) finished with a floating coat of neat cement finish using cement slurry for bond @ 2.75Kg per square metre of floor area, wearing layer is to be laid in panels including curing etc. complete directed	Sqm	7.39	405.53	2,998.39
Sub Total					40,793.00
<i>Add 10% for letter writing and etc.</i>					4079.30
<i>Rate Per / No (In Rs.)</i>					44872.30

RATE ANALYSIS FOR OVER HEAD SIGN BOARD

Ref : SOR 2013-14	Descriptions	Unit	Estimated Quantity	Rate (Rs.)	Amount (Rs.)
12.1	Excavation for Structures Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.				
I	Ordinary soil				
A	Manual Means				
(i)	upto 3 m depth	cum	24.768	65.00	1609.92
II	Ordinary rock (not requiring blasting)				
A	Manual Means				
(i)	Depth upto 3 m	cum	16.512	93.00	1535.62
12.8	Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications				
A	PCC Grade M15	Cum	2.752	0.00	0.00
12.8	Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications				
E Case-II	RCC Grade M25	Cum	56.160	0.00	0.00
12.40	Supplying, fitting and placing un coated HYSD bar reinforcement in foundation complete as per drawing and technical specification	tonne	3.931	0.00	0.00

RATE ANALYSIS FOR OVER HEAD SIGN BOARD

Ref : SOR 2013-14	Descriptions	Unit	Estimated Quantity	Rate (Rs.)	Amount (Rs.)
8.7	Overhead Signs Providing and erecting overhead signs with a corrosion resistant aluminium alloy sheet reflectorised with high intensity retro-reflective sheeting of encapsulated lense type with vertical and lateral clearance given in clause 802.2 and 802.3 and installed as per clause 802.7 over a designed support system of aluminium alloy or galvanised steel trestles and trusses of sections and type as per structural design requirements and approved plans				
A	Truss and vertical Support	tonne	5.10	6000.00	30574.70
B	Aluminium alloy plate for over head sign	Sqm	84.00	55.00	4620.00
8.9	Painting on steel surface Providing and applying two coats of ready mix paint of approved brand on steel surface	Sqm	265.12	74.00	19619.08
	Sub Total				57959.31
	Add 5% for letter writing and etc.				2897.97
	Rate Per / No (In Rs.)				60857.28