

24.13		Water Bound Macadam Grading II												
		Providing, laying, spreading and compacting stone aggregates of Grading II to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheeled roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density complete as per technical clause 404 of MORT&H specifications	1	Cum.										
I		Materials												
(i)		63 mm to 45 mm Grading II Material at site of work			Cum	1.33	459.19	610.72						
(ii)														
(iii)		Binding Material at site of work			Cum	0.10	111.47	11.15						
		Total - I						621.87						
		Add contractor's profit @ 10% i.e. on Rs. 621.87						62.19						
		Add Labour cess @ 1% i.e. on Rs. 684.06						6.84						
		Cost for	1	Cum.				690.90						
		Cost for	1	Cum.				690.90		690.90				690.90
II		Labour												
		Taking output	360	Cum.										
(i)		Mate			Day	11.00	151.44	1665.84						
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	275.00	143.81	39547.75						
(iii)		Mazdoor Skilled (Skilled Upper)			Day	2.00	164.69	329.38						
		Machinery												
(iv)		Smooth 3 wheeled steel Roller			hour	45.00	300.00	13500.00						
(v)		Water tanker 6 KL capacity			hour	24.00	250.00	6000.00						

		Total - II					61042.97						
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 61042.97					1220.86						
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 62263.83					13386.72						
		Add Labour cess @ 1% i.e. on Rs. 75650.55					756.51						
		Labour for	360	Cum.			76407.06						
		Labour for	1	Cum.			212.24		212.24		212.24		
		Cost for	1	Cum.					903.14				
		Add 10% for sub mountainous region											21.22
		Labour for	1	Cum.									233.46
		Cost for	1	Cum.									924.36

24.14		Water Bound Macadam Grading III												
		Providing, laying, spreading and compacting stone aggregates of Grading III to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheeled roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density complete as per technical clause 404 of MORT&H specifications	1	Cum.										
I		Materials												
(i)		53 mm to 22.4 mm Grading III Material at site of work			Cum	1.33	471.44	627.02						
(ii)														
(iii)		Binding Material at site of work			Cum	0.10	111.47	11.15						
		Total - I						638.17						
		Add contractor's profit @ 10% i.e. on Rs. 638.17						63.82						
		Add Labour cess @ 1% i.e. on Rs. 701.99						7.02						
		Cost for	1	Cum.				709.01						
		Cost for	1	Cum.				709.01		709.01				709.01
II		Labour												
		Taking output	360	Cum.										
(i)		Mate			Day	11.00	151.44	1665.84						
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	275.00	143.81	39547.75						
(iii)		Mazdoor Skilled (Skilled Upper)			Day	2.00	164.69	329.38						
		Machinery												
(iv)		Smooth 3 wheeled steel Roller			hour	45.00	300.00	13500.00						
(v)		Water tanker 6 KL capacity			hour	24.00	250.00	6000.00						

		Total - II						61042.97						
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 61042.97						1220.86						
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 62263.83						13386.72						
		Add Labour cess @ 1% i.e. on Rs. 75650.55						756.51						
		Labour for	360	Cum.				76407.06						
		Labour for	1	Cum.				212.24		212.24		212.24		
		Cost for	1	Cum.						921.25				
		Add 10% for sub mountainous region												21.22
		Labour for	1	Cum.										233.46
		Cost for	1	Cum.										942.47

Chapter No. 24 (Confidential)

ROAD WORK

Notes :-

- 1 The rates include the cost of working of road machinery including cost of fuels, lubricants, stores, establishment, depreciation and interest charges. In case the machinery is provided by the department, the working cost as mentioned, as mentioned above shall be recovered from the contractor at the rates fixed by the department.
- 2 Unless otherwise stated, the rates include rehandling of materials within 100 metres.
- 3 All type of quarry materials has been taken from quarry as on dated 01.04.2010. If materials are taken from any other quarry or quarry rates increases/decreases, then rates will be adjusted accordingly.
- 4 All type of quarry materials has been taken from quarry with an average lead of 5 Km to work site/plant site. If the lead increases/decreases, then rates will be adjusted accordingly.
- 5 All type of Bitumen has been taken from Panipat Refinery with an average lead of 5 Km to work site/plant site. The bitumen rates are as prevailing in July, 2010. If the rate of bitumen increases/decreases or lead is different from 5 Km then the rates will be adjusted accordingly. The rates are based on bulk bitumen. If packed bitumen is used then the rates will be adjusted accordingly.
- 6 Carriage of mixed material from plant site to work site is not included in the rates and it is payable as per CSR Chapter 5. For bituminous items it will be paid 10% above the rates of item no. 5.2(i) of chapter 5 of CSR. The carriage of wet mix macadam will be paid as per rates of item no. 5.2(i) of chapter 5 of CSR.
- 7 The rate of bricks at kiln site has been taken as Rs. 2800/- per 1000 nos. Carriage of bricks has been taken as 5 Km from kiln site to work site. If the rates of bricks increases/decreases or lead is different from 5 Km then the rates will be adjusted accordingly.
- 8 Wherever any extra lead is involved than specified in the description of item, the same shall be payable as per chapter 5 of CSR.
- 9 Carriage of good earth for embankment construction/binding material has been taken as 1 km with compensation of earth. If the lead increases/decreases then the rates will be adjusted accordingly.
- 10 The rates of item No. 24.37 to 24.57 are inclusive of all leads and nothing extra on account of carriage is payable on these items.
- 11 The CSR rates are inclusive of contractor's profit, overhead charges, taxes/Labour cess as applicable on 01.04.2010.
- 12 The input rates of materials are without contractor's profit but are inclusive of excise duty, sales taxes, VAT and surcharge etc. as applicable on 01.04.2010.
- 13 The rates of item no. 24.17 to 24.19, 24.21 to 24.24, 24.28 and 24.31 are worked out with average bitumen contents. If bitumen contents of these items increases/decreases as per approved job mix formula or during the trials conducted by the Engineer In Charge, then the rates will be adjusted accordingly.
- 14 The quantity considered in the output is the compacted quantity. The quantities of materials provided in the rate analysis are the uncompacted quantities.
- 15 The clauses of MORT&H Specifications, which have been mentioned, may be referred for detailed specifications and construction procedures. The rate mention only brief description of work.
- 16 The outputs taken for the construction equipments are for the compacted quantities of the relevant items and not for loose quantities.

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.1		Clearing Grass and Removal of Rubbish								
		Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area as per technical clause 201 of MORT&H specifications	1	ha						
I		Labour								
		Taking output	1	ha						
(i)		Mate		Day	2.00	151.44	302.88			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	50.00	143.81	7190.50			
		Total - I					7493.38			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @1.5% i.e. on Rs. 7493.38					112.40			
		Add Contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 7605.78					1635.24			
		Add Labour cess @ 1% i.e. on Rs. 9241.02					92.41			
		Labour for	1	ha			9333.43			
		Labour for	1	ha			9333.43	9333.43		
		Cost for	1	ha			9333.43			
		Add 10% for sub mountainous region								933.34
		Labour for	1	ha						10266.77
		Cost for	1	ha						10266.77

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.2		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 as per technical clause 201 of MORT&H specifications	1	ha						
	A	In area of Light Jungle (By Manual Means)								
	I	Labour								
		Taking output	1	ha						
(i)		Mate		Day	6.00	151.44	908.64			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	150.00	143.81	21571.50			
		Machinery								
(iii)		Tractor Trolley		hour	1.00	250.00	250.00			
		Total - I					22730.14			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 22730.14					340.95			
		Add Contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 23071.09					4960.28			
		Add Labour cess @ 1% i.e. on Rs. 28031.37					280.31			
		Labour for	1	ha			28311.68			
		Labour for	1	ha			28311.68	28311.68		
		Cost for	1	ha				28311.68		
		Add 10% for sub mountainous region								2831.17
		Labour for	1	ha						31142.85
		Cost for	1	ha						31142.85

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
	B	In area of Thorny Jungle (By Manual Means)								
I		Labour								
		Taking output	1	ha						
(i)		Mate		Day	8.00	151.44	1211.52			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	200.00	143.81	28762.00			
		Machinery								
(iii)		Tractor Trolley		hour	2.00	250.00	500.00			
		Total - I					30473.52			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 30473.52					457.10			
		Add Contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 30930.62					6650.08			
		Add Labour cess @ 1% i.e. on Rs. 37580.7					375.81			
		Labour for	1	ha			37956.51			
		Labour for	1	ha			37956.51	37956.51	37956.51	
		Cost for	1	ha				37956.51		
		Add 10% for sub mountainous region								3795.65
		Labour for	1	ha						41752.16
		Cost for	1	ha						41752.16

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
	C	In area of Light Jungle (By Mechanical Means)								
I		Labour								
		Taking output	1	ha						
(i)		Mate		Day	0.16	151.44	24.23			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	4.00	143.81	575.24			
		Machinery								
(iii)		Dozer 50 HP with attchment for removal of trees & stumps		hour	10.00	2134.50	21345.00			
(iv)		Tractor Trolley		hour	1.00	250.00	250.00			
		Total - I					22194.47			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 22194.47					332.92			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 22527.39					4843.39			
		Add Labour cess @ 1% i.e. on Rs. 27370.78					273.71			
		Labour for	1	ha			27644.49			
		Labour for	1	ha			27644.49	27644.49	27644.49	
		Cost for	1	ha				27644.49		
		Add 10% for sub mountainous region								2764.45
		Labour for	1	ha						30408.94
		Cost for	1	ha						30408.94

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
	D	In area of Thorny Jungle (By Mechanical Means)								
I		Labour								
		Taking output	1	ha						
(i)		Mate		Day	0.24	151.44	36.35			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	6.00	143.81	862.86			
		Machinery								
(iii)		Dozer 50 HP with attchment for removal of trees & stumps		hour	12.00	2134.50	25614.00			
(iv)		Tractor Trolley		hour	1.50	250.00	375.00			
		Total - I					26888.21			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 26888.21					403.32			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 27291.53					5867.68			
		Add Labour cess @ 1% i.e. on Rs. 33159.21					331.59			
		Labour for	1	ha			33490.80			
		Labour for	1	ha			33490.80	33490.80	33490.80	
		Cost for	1	ha				33490.80		
		Add 10% for sub mountainous region								3349.08
		Labour for	1	ha						36839.88
		Cost for	1	ha						36839.88

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.3 a		Dismantling of Flexible Pavements (Bituminous Courses) (By Manual Means)								
		Dismantling of bituminous courses of flexible pavements by manual means and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per technical clause 202 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	1	Cum.						
(i)		Mate		Day	0.06	151.44	9.09			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	1.50	143.81	215.72			
		Machinery								
(iii)		Tractor Trolley		hour	0.38	250.00	95.00			
		Total - I				319.81				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 319.81				4.80				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 324.61				69.79				
		Add Labour cess @ 1% i.e. on Rs. 394.4				3.94				
		Labour for	1	Cum.		398.34				
		Labour for	1	Cum.		398.34	398.34		398.34	
		Cost for	1	Cum.			398.34			
		Add 10% for sub mountainous region								39.83
		Labour for	1	Cum.						438.17
		Cost for	1	Cum.						438.17

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.3 b		Dismantling of Flexible Pavements (Bituminous Courses) (By Mechanical Means)								
		Dismantling of bituminous courses of flexible pavements by mechanical means and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per technical clause 202 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	1	Cum.						
(i)		Mate		Day	0.01	151.44	1.51			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	0.30	143.81	43.14			
		Machinery								
(iii)		Tractor Trolley		hour	0.38	250.00	95.00			
(iv)		Tractor with ripper		hour	0.017	250.00	4.25			
		Total - I					143.90			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 143.9					2.16			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 146.06					31.40			
		Add Labour cess @ 1% i.e. on Rs. 177.46					1.77			
		Labour for	1	Cum.			179.23			
		Labour for	1	Cum.			179.23	179.23		
		Cost for	1	Cum.			179.23			
		Add 10% for sub mountainous region								17.92
		Labour for	1	Cum.						197.15
		Cost for	1	Cum.						197.15

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.3 c		Dismantling of Flexible Pavements (Granular Courses) (By Manual Means)								
		Dismantling of granular courses of flexible pavements by manual means and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per technical clause 202 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	1	Cum.						
(i)		Mate		Day	0.04	151.44	6.06			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	1.00	143.81	143.81			
		Machinery								
(iii)		Tractor Trolley		hour	0.33	250.00	82.50			
		Total - I				232.37				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 232.37				3.49				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 235.86				50.71				
		Add Labour cess @ 1% i.e. on Rs. 286.57				2.87				
		Labour for	1	Cum.		289.44				
		Labour for	1	Cum.		289.44	289.44		289.44	
		Cost for	1	Cum.			289.44			
		Add 10% for sub mountainous region								28.94
		Labour for	1	Cum.						318.38
		Cost for	1	Cum.						318.38

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.4 a		Compacting original ground below road crust								
		Loosening, leveling and compacting original ground up to a level of 500mm below road crust, mixed with water at OMC, levelled, graded and compacted in layers by rolling so as to achieve minimum dry density as given in Table 300-2 for sub grade construction as per technical clause 305 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	600	Cum.						
(i)		Mate		Day	0.12	151.44	18.17			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	3.00	143.81	431.43			
		Machinery								
(iii)		Tractor with Ripper attachment		hour	9.00	250.00	2250.00			
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	7.50	1100.00	8250.00			
(vi)		Water tanker 6 KL capacity		hour	4.00	250.00	1000.00			
		Total - I				25854.60				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 25854.6				517.09				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 26371.69				5669.91				
		Add Labour cess @ 1% i.e. on Rs. 32041.6				320.42				
		Labour for	600	Cum.		32362.02				
		Labour for	1	Cum.		53.94	53.94	53.94		
		Cost for	1	Cum.			53.94			
		Add 10% for sub mountainous region								5.39
		Labour for	1	Cum.						59.33
		Cost for	1	Cum.						59.33

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.4 b		Compacting original ground below Embankment								
		Loosening, leveling and compacting original ground below embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment construction as per technical clause 305 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	600	Cum.						
(i)		Mate		Day	0.08	151.44	12.12			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Machinery								
(iii)		Tractor with Ripper attachment		hour	6.00	250.00	1500.00			
(iv)		Vibratory roller 8-10 tonne		hour	7.50	1100.00	8250.00			
(v)		Water tanker 6 KL capacity		hour	4.00	250.00	1000.00			
		Total - I					11049.74			
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 11049.74					220.99			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 11270.73					2423.21			
		Add Labour cess @ 1% i.e. on Rs. 13693.94					136.94			
		Labour for	600	Cum.			13830.88			
		Labour for	1	Cum.			23.05	23.05	23.05	
		Cost for	1	Cum.				23.05		
		Add 10% for sub mountainous region								2.31
		Labour for	1	Cum.						25.36
		Cost for	1	Cum.						25.36

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.5 a		Construction of Embankment with Good Quality Earth obtained from Borrowpits								
		Construction of embankment with good quality earth obtained from borrow pits including compensation of earth, loading, unloading, carriage to site of work, spreading, grading to required slope and compacting to meet requirement of table 300-2 as per technical clause 305 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		Soil with 1km lead at site of work with compensation of earth taken from private land		Cum	1.00	111.47				
		Total - I				111.47				
		Add contractor's profit @ 10% i.e. on Rs. 111.47				11.15				
		Add Labour cess @ 1% i.e. on Rs. 122.62				1.23				
		Cost for	1	Cum.		123.84				
		Cost for	1	Cum.		123.84	123.84			123.84
II		Labour								
		Taking output	100	Cum.						
(i)		Mate		Day	0.04	151.44	6.06			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	1.00	143.81	143.81			
		Machinery								
(iii)		Hydraulic Excavator 1 cum bucket capacity		hour	1.67	1260.00	2104.20			
(iv)		Dozer 80 HP for spreading		hour	0.50	3600.00	1800.00			
(v)		Motor grader for grading		hour	1.00	2317.50	2317.50			
(vi)		Vibratory roller 8-10 tonne		hour	1.00	1100.00	1100.00			
(vii)		Water tanker 6 KL capacity		hour	4.00	250.00	1000.00			
		Total - II				8471.57				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 8471.57				169.43				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 8641				1857.82				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Add Labour cess @ 1% i.e. on Rs. 10498.82						104.99				
		Labour for	100	Cum.				10603.81				
		Labour for	1	Cum.				106.04	106.04		106.04	
		Cost for	1	Cum.					229.88			
		Add 10% for sub mountainous region										10.60
		Labour for	1	Cum.								116.64
		Cost for	1	Cum.								240.48

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.5 b		Construction of Embankment with Earth obtained from Roadway Cutting or Excavation								
		Construction of embankment with earth obtained from roadway cutting or excavation including spreading, grading to required slope and compacting to meet requirement of table 300-2 as per technical clause 305 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	100	Cum.						
(i)		Mate		Day	0.02	151.44	3.03			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	0.50	143.81	71.91			
		Machinery								
(ii)		Dozer 80 HP for spreading		hour	0.50	3600.00	1800.00			
(iii)		Motor grader for grading		hour	1.00	2317.50	2317.50			
(iv)		Vibratory roller 8-10 tonne		hour	1.00	1100.00	1100.00			
(v)		Water tanker 6 KL capacity		hour	4.00	250.00	1000.00			
		Total - I				6292.44				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 6292.44				125.85				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 6418.29				1379.93				
		Add Labour cess @ 1% i.e. on Rs. 7798.22				77.98				
		Labour for	100	Cum.		7876.20				
		Labour for	1	Cum.		78.76	78.76		78.76	
		Add 10% for sub mountainous region								7.88
		Labour for	1	Cum.						86.64

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.6 a		Excavation for Roadway (By Manual Means)								
		Excavation for roadway in soil by manual means including carrying of cut earth to embankment site with all lead and lifts up to 50m as per technical clause 301 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	120	Cum.						
(i)		Mate		Day	1.80	151.44	272.59			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	45.00	143.81	6471.45			
		Total - I					6744.04			
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 6744.04					134.88			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 6878.92					1478.97			
		Add Labour cess @ 1% i.e. on Rs. 8357.89					83.58			
		Labour for	120	Cum.			8441.47			
		Labour for	1	Cum.			70.35	70.35	70.35	
		Add 10% for sub mountainous region								7.04
		Labour for	1	Cum.						77.39

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.6 b		Excavation for Roadway (By Mechanical Means)								
		Excavation for roadway in soil by mechanical means with dozer including cutting and pushing earth to embankment site with all lead and lifts up to 100m including trimming bottom and side slopes as per technical clause 301 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	180	Cum.						
(i)		Mate		Day	0.08	151.44	12.12			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Machinery								
(iii)		Dozer 80 HP for cutting and pushing		hour	1.80	3600.00	6480.00			
		Total - I				6779.74				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 6779.74				135.59				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 6915.33				1486.80				
		Add Labour cess @ 1% i.e. on Rs. 8402.13				84.02				
		Labour for	180	Cum.		8486.15				
		Labour for	1	Cum.		47.15	47.15		47.15	
		Add 10% for sub mountainous region								4.72
		Labour for	1	Cum.						51.87

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.6 c		Excavation for Roadway (By Mechanical Means)								
		Excavation for roadway in soil by mechanical means with hydraulic excavator including cutting and loading in tippers including trimming bottom and side slopes with all leads and lifts up to 1000m as per technical clause 301 of MORT&H specifications	1	Cum.						
I		Labour								
		Taking output	360	Cum.						
(i)		Mate		Day	0.08	151.44	12.12			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Machinery								
(iii)		Hydraulic Excavator 1 cum bucket capacity		hour	6.00	1260.00	7560.00			
		Total - I				7859.74				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 7859.74				157.19				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 8016.93				1723.64				
		Add Labour cess @ 1% i.e. on Rs. 9740.57				97.41				
		Carriage of excavated earth with an average lead of 500m as per chapter 5 of CSR		cum	360.00	37.50	13500.00			
		Labour for	360	Cum.		23337.98				
		Labour for	1	Cum.		64.83	64.83		64.83	
		Add 10% for sub mountainous region								6.48
		Labour for	1	Cum.						71.31

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.7 a		Granular Sub-Base (Close Graded Material Grading-I)								
		Construction of granular sub-base by providing close graded material grading -I, 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 technical clause 401 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		GSB at site of work		cum	1.28	288.18	368.87			
		Total - I				368.87				
		Add contractor's profit @ 10% i.e. on Rs. 368.87				36.89				
		Add Labour cess @ 1% i.e. on Rs. 405.76				4.06				
		Cost for	1	Cum.		409.81				
		Cost for	1	Cum.		409.81	409.81			409.81
II		Labour								
		Taking output	300	Cum.						
(i)		Mate		Day	0.48	151.44	72.69			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	10.00	143.81	1438.10			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	6.00	1100.00	6600.00			
(vi)		Tractor with Rotavator		hour	12.00	250.00	3000.00			
(vii)		Water tanker 6 KL capacity		hour	3.00	250.00	750.00			
		Total - II				26095.17				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 26095.17				521.90				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 26617.07				5722.67				
		Add Labour cess @ 1% i.e. on Rs. 32339.74				323.40				
		Labour for 300 Cum.				32663.14				
		Labour for 1 Cum.				108.88	108.88		108.88	
		Cost for 1 Cum.					518.69			
		Add 10% for sub mountainous region								10.89
		Labour for 1 Cum.								119.77
		Cost for 1 Cum.								529.58

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.7 b		Granular Sub-Base (Close Graded Material Grading-II)								
		Construction of granular sub-base by providing close graded material grading -II, 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 technical clause 401 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		GSB at site of work		cum	1.28	288.18	368.87			
		Total - I				368.87				
		Add contractor's profit @ 10% i.e. on Rs. 368.87				36.89				
		Add Labour cess @ 1% i.e. on Rs. 405.76				4.06				
		Cost for	1	Cum.		409.81				
		Cost for	1	Cum.		409.81	409.81			409.81
II		Labour								
		Taking output	300	Cum.						
(i)		Mate		Day	0.48	151.44	72.69			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	10.00	143.81	1438.10			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	6.00	1100.00	6600.00			
(vi)		Tractor with Rotavator		hour	12.00	250.00	3000.00			
(vii)		Water tanker 6 KL capacity		hour	3.00	250.00	750.00			
		Total - II				26095.17				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 26095.17				521.90				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 26617.07				5722.67				
		Add Labour cess @ 1% i.e. on Rs. 32339.74				323.40				
		Labour for 300 Cum.				32663.14				
		Labour for 1 Cum.				108.88	108.88		108.88	
		Cost for 1 Cum.					518.69			
		Add 10% for sub mountainous region								10.89
		Labour for 1 Cum.								119.77
		Cost for 1 Cum.								529.58

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.7 c		Granular Sub-Base (Close Graded Material Grading-III)								
		Construction of granular sub-base by providing close graded material grading -III, 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 technical clause 401 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		GSB at site of work		cum	1.28	288.18	368.87			
		Total - I				368.87				
		Add contractor's profit @ 10% i.e. on Rs. 368.87				36.89				
		Add Labour cess @ 1% i.e. on Rs. 405.76				4.06				
		Cost for	1	Cum.		409.81				
		Cost for	1	Cum.		409.81	409.81			409.81
II		Labour								
		Taking output	300	Cum.						
(i)		Mate		Day	0.48	151.44	72.69			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	10.00	143.81	1438.10			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	6.00	1100.00	6600.00			
(vi)		Tractor with Rotavator		hour	12.00	250.00	3000.00			
(vii)		Water tanker 6 KL capacity		hour	3.00	250.00	750.00			
		Total - II				26095.17				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 26095.17				521.90				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 26617.07				5722.67				
		Add Labour cess @ 1% i.e. on Rs. 32339.74				323.40				
		Labour for 300 Cum.				32663.14				
		Labour for 1 Cum.				108.88	108.88		108.88	
		Cost for 1 Cum.					518.69			
		Add 10% for sub mountainous region								10.89
		Labour for 1 Cum.								119.77
		Cost for 1 Cum.								529.58

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.8 a		Granular Sub-Base (Coarse Graded Material Grading-I)								
		Construction of granular sub-base by providing coarse graded material grading-I, 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 technical clause 401 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		GSB at site of work		cum	1.28	288.18	368.87			
		Total - I				368.87				
		Add contractor's profit @ 10% i.e. on Rs. 368.87				36.89				
		Add Labour cess @ 1% i.e. on Rs. 405.76				4.06				
		Cost for	1	Cum.		409.81				
		Cost for	1	Cum.		409.81	409.81			409.81
II		Labour								
		Taking output	300	Cum.						
(i)		Mate		Day	0.40	151.44	60.58			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	8.00	143.81	1150.48			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	6.00	1100.00	6600.00			
(vi)		Tractor with Rotavator		hour	6.00	250.00	1500.00			
(vii)		Water tanker 6 KL capacity		hour	3.00	250.00	750.00			
		Total - II				24295.44				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 24295.44				485.91				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 24781.35				5327.99				
		Add Labour cess @ 1% i.e. on Rs. 30109.34				301.09				
		Labour for 300 Cum.				30410.43				
		Labour for 1 Cum.				101.37	101.37		101.37	
		Cost for 1 Cum.					511.18			
		Add 10% for sub mountainous region								10.14
		Labour for 1 Cum.								111.51
		Cost for 1 Cum.								521.32

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.8 b		Granular Sub-Base (Coarse Graded Material Grading-II)								
		Construction of granular sub-base by providing coarse graded material grading-II, 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 technical clause 401 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		GSB at site of work		cum	1.28	288.18	368.87			
		Total - I				368.87				
		Add contractor's profit @ 10% i.e. on Rs. 368.87				36.89				
		Add Labour cess @ 1% i.e. on Rs. 405.76				4.06				
		Cost for	1	Cum.		409.81				
		Cost for	1	Cum.		409.81	409.81			409.81
II		Labour								
		Taking output	300	Cum.						
(i)		Mate		Day	0.40	151.44	60.58			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	8.00	143.81	1150.48			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	6.00	1100.00	6600.00			
(vi)		Tractor with Rotavator		hour	6.00	250.00	1500.00			
(vii)		Water tanker 6 KL capacity		hour	3.00	250.00	750.00			
		Total - II				24295.44				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 24295.44				485.91				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 24781.35				5327.99				
		Add Labour cess @ 1% i.e. on Rs. 30109.34				301.09				
		Labour for 300 Cum.				30410.43				
		Labour for 1 Cum.				101.37	101.37		101.37	
		Cost for 1 Cum.					511.18			
		Add 10% for sub mountainous region								10.14
		Labour for 1 Cum.								111.51
		Cost for 1 Cum.								521.32

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.8 c		Granular Sub-Base (Coarse Graded Material Grading-III)								
		Construction of granular sub-base by providing coarse graded material grading-III, 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 technical clause 401 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		GSB at site of work		cum	1.28	288.18	368.87			
		Total - I				368.87				
		Add contractor's profit @ 10% i.e. on Rs. 368.87				36.89				
		Add Labour cess @ 1% i.e. on Rs. 405.76				4.06				
		Cost for	1	Cum.		409.81				
		Cost for	1	Cum.		409.81	409.81			409.81
II		Labour								
		Taking output	300	Cum.						
(i)		Mate		Day	0.40	151.44	60.58			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	8.00	143.81	1150.48			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Motor grader for grading		hour	6.00	2317.50	13905.00			
(v)		Vibratory roller 8-10 tonne		hour	6.00	1100.00	6600.00			
(vi)		Tractor with Rotavator		hour	6.00	250.00	1500.00			
(vii)		Water tanker 6 KL capacity		hour	3.00	250.00	750.00			
		Total - II				24295.44				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 24295.44				485.91				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 24781.35				5327.99				
		Add Labour cess @ 1% i.e. on Rs. 30109.34				301.09				
		Labour for 300 Cum.				30410.43				
		Labour for 1 Cum.				101.37	101.37		101.37	
		Cost for 1 Cum.					511.18			
		Add 10% for sub mountainous region								10.14
		Labour for 1 Cum.								111.51
		Cost for 1 Cum.								521.32

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.9		Lime Treated Soil for Sub- Base								
		Laying and spreading soil on a prepared sub grade, pulverising, mixing the spread soil in place with rotavator with 3 per cent slaked lime with minimum content of 70 per cent of CaO, grading with motor grader and compacting with the road roller at OMC to achieve at least 98 per cent of the max dry density to form a layer of sub base complete as per technical clause 402 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		Lime at site of work	tonne	0.0525	5687.50	298.59				
		Total - I				298.59				
		Add contractor's profit @ 10% i.e. on Rs. 298.59				29.86				
		Add Labour cess @ 1% i.e. on Rs. 328.45				3.28				
		Cost for	1	Cum.		331.73				
		Cost for	1	Cum.		331.73	331.73			331.73
II		Labour								
		Taking output	300	Cum.						
(i)		Mate	Day	0.48	151.44	72.69				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	10.00	143.81	1438.10				
(iii)		Mazdoor Skilled (Skilled Upper)	Day	2.00	164.69	329.38				
		Machinery								
(iv)		Excavator 0.90 cum bucket capacity	hour	6.00	1260.00	7560.00				
(v)		Tractor with Rotavator and blade	hour	12.00	250.00	3000.00				
(vi)		Motor grader 110 HP	hour	6.00	2317.50	13905.00				
(vii)		Vibratory roller 8-10 tonne	hour	6.00	1100.00	6600.00				
(viii)		Water tanker 6 KL capacity	hour	12.00	250.00	3000.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						35905.17				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 35905.17						718.10				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 36623.27						7874.00				
		Add Labour cess @ 1% i.e. on Rs. 44497.27						444.97				
		Labour for	300	Cum.				44942.24				
		Labour for	1	Cum.				149.81	149.81		149.81	
		Cost for	1	Cum.					481.54			
		Add 10% for sub mountainous region										14.98
		Labour for	1	Cum.								164.79
		Cost for	1	Cum.								496.52

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.10		Making 50 mm x 50 mm Furrows								
		Making 50 mm x 50 mm furrows 45 degree to the center line of the road and at one metre interval in the existing bituminous wearing coarse including sweeping and disposal of excavated material within 1000 metres lead complete as per technical clause 404 of MORT&H specifications (Full surface area will be measured for payment)	1	sqm.						
I		Labour								
		Taking output	210	sqm.						
(i)		Mate		Day	0.08	151.44	12.12			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Machinery								
(iii)		Tractor Trolley		hour	0.20	250.00	50.00			
		Total - I				349.74				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 349.74				5.25				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 354.99				76.32				
		Add Labour cess @ 1% i.e. on Rs. 431.31				4.31				
		Labour for	210	sqm.		435.62				
		Labour for	1	sqm.		2.07	2.07		2.07	
		Add 10% for sub mountainous region								0.21
		Labour for	1	sqm.						2.28

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.11		Inverted Choke										
		Construction of inverted choke by providing, laying, spreading and compacting coarse sand of specified grade in uniform layer on a prepared surface with motor grader and compacting with power roller etc complete as per technical clause 404 of MORT&H specifications	1	Cum.								
I		Materials										
(i)		Coarse Sand at site of work			cum	1.20	280.73	336.88				
		Total - I						336.88				
		Add contractor's profit @ 10% i.e. on Rs. 336.88						33.69				
		Add Labour cess @ 1% i.e. on Rs. 370.57						3.71				
		Cost for	1	Cum.				374.27				
		Cost for	1	Cum.				374.27	374.27			374.27
II		Labour										
		Taking output	600	Cum.								
(i)		Mate			Day	0.92	151.44	139.32				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	21.00	143.81	3020.01				
(iii)		Mazdoor Skilled (Skilled Upper)			Day	2.00	164.69	329.38				
		Machinery										
(iv)		Motor grader 110 HP			hour	6.00	2317.50	13905.00				
(v)		Vibratory roller 8-10 tonne			hour	6.00	1100.00	6600.00				
(vi)		Water tanker 6 KL capacity			hour	18.00	250.00	4500.00				
		Total - II						28493.71				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 28493.71						569.87				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 29063.58						6248.67				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Add Labour cess @ 1% i.e. on Rs. 35312.25						353.12				
		Labour for	600	Cum.				35665.37				
		Labour for	1	Cum.				59.44	59.44		59.44	
		Cost for	1	Cum.					433.71			
		Add 10% for sub mountainous region										5.94
		Labour for	1	Cum.								65.38
		Cost for	1	Cum.								439.65

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.12		Water Bound Macadam Grading I								
		Providing, laying, spreading and compacting stone aggregates of Grading I to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheeled roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density complete as per technical clause 404 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		90 mm to 45 mm Grading I Material at site of work		Cum	1.33	441.10	586.66			
(ii)		13.2mm Screening Material at site of work		Cum	0.285	435.24	124.04			
(iii)		Binding Material at site of work		Cum	0.09	111.47	10.03			
		Total - I				720.73				
		Add contractor's profit @ 10% i.e. on Rs. 720.73				72.07				
		Add Labour cess @ 1% i.e. on Rs. 792.8				7.93				
		Cost for	1	Cum.		800.73				
		Cost for	1	Cum.		800.73	800.73			800.73
II		Labour								
		Taking output	360	Cum.						
(i)		Mate		Day	11.00	151.44	1665.84			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	275.00	143.81	39547.75			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Smooth 3 wheeled steel Roller		hour	36.00	300.00	10800.00			
(v)		Water tanker 6 KL capacity		hour	24.00	250.00	6000.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						58342.97				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 58342.97						1166.86				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 59509.83						12794.61				
		Add Labour cess @ 1% i.e. on Rs. 72304.44						723.04				
		Labour for	360	Cum.				73027.48				
		Labour for	1	Cum.				202.85	202.85		202.85	
		Cost for	1	Cum.					1003.58			
		Add 10% for sub mountainous region										20.29
		Labour for	1	Cum.								223.14
		Cost for	1	Cum.								1023.87

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.13		Water Bound Macadam Grading II								
		Providing, laying, spreading and compacting stone aggregates of Grading II to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheeled roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density complete as per technical clause 404 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		63 mm to 45 mm Grading II Material at site of work		Cum	1.33	459.19	610.72			
(ii)		13.2mm Screening Material at site of work		Cum	0.18	435.24	78.34			
(iii)		Binding Material at site of work		Cum	0.10	111.47	11.15			
		Total - I					700.21			
		Add contractor's profit @ 10% i.e. on Rs. 700.21					70.02			
		Add Labour cess @ 1% i.e. on Rs. 770.23					7.70			
		Cost for	1	Cum.			777.93			
		Cost for	1	Cum.			777.93			777.93
II		Labour								
		Taking output	360	Cum.						
(i)		Mate		Day	11.00	151.44	1665.84			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	275.00	143.81	39547.75			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Smooth 3 wheeled steel Roller		hour	45.00	300.00	13500.00			
(v)		Water tanker 6 KL capacity		hour	24.00	250.00	6000.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						61042.97				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 61042.97						1220.86				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 62263.83						13386.72				
		Add Labour cess @ 1% i.e. on Rs. 75650.55						756.51				
		Labour for	360	Cum.				76407.06				
		Labour for	1	Cum.				212.24	212.24		212.24	
		Cost for	1	Cum.					990.17			
		Add 10% for sub mountainous region										21.22
		Labour for	1	Cum.								233.46
		Cost for	1	Cum.								1011.39

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.14		Water Bound Macadam Grading III								
		Providing, laying, spreading and compacting stone aggregates of Grading III to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheeled roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density complete as per technical clause 404 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		53 mm to 22.4 mm Grading III Material at site of work		Cum	1.33	471.44	627.02			
(ii)		11.2mm Screening Material at site of work		Cum	0.26	461.32	119.94			
(iii)		Binding Material at site of work		Cum	0.10	111.47	11.15			
		Total - I				758.11				
		Add contractor's profit @ 10% i.e. on Rs. 758.11				75.81				
		Add Labour cess @ 1% i.e. on Rs. 833.92				8.34				
		Cost for	1	Cum.		842.26				
		Cost for	1	Cum.		842.26	842.26			842.26
II		Labour								
		Taking output	360	Cum.						
(i)		Mate		Day	11.00	151.44	1665.84			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	275.00	143.81	39547.75			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Smooth 3 wheeled steel Roller		hour	45.00	300.00	13500.00			
(v)		Water tanker 6 KL capacity		hour	24.00	250.00	6000.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						61042.97				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 61042.97						1220.86				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 62263.83						13386.72				
		Add Labour cess @ 1% i.e. on Rs. 75650.55						756.51				
		Labour for 360 Cum.						76407.06				
		Labour for 1 Cum.						212.24	212.24		212.24	
		Cost for 1 Cum.							1054.50			
		Add 10% for sub mountainous region										21.22
		Labour for 1 Cum.										233.46
		Cost for 1 Cum.										1075.72

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.15		Wet Mix Macadam								
		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant, carriage from mix plant to site of work, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per technical clause 406 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		45mm to 22.4mm at plant site		Cum	0.45	425.22	191.35			
(ii)		22.4mm to 2.36mm at plant site		Cum	0.60	427.40	256.44			
(iii)		2.36mm to 75 micron at plant site		Cum	0.45	280.73	126.33			
		Total - I					574.12			
		Add contractor's profit @ 10% i.e. on Rs. 574.12					57.41			
		Add Labour cess @ 1% i.e. on Rs. 631.53					6.32			
		Cost for	1	Cum.			637.85			
		Cost for	1	Cum.			637.85		637.85	637.85
II		Labour								
		Taking output	225	Cum.						
(i)		Mate		Day	0.48	151.44	72.69			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	10.00	143.81	1438.10			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Wet mix plant		hour	6.60	1942.50	12820.50			
(v)		Electric Generator 125 KVA		hour	6.60	843.75	5568.75			
(vi)		Front end loader 1 cum capacity		hour	6.60	780.00	5148.00			
(vii)		Paver Finisher		hour	6.60	943.50	6227.10			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(viii)		Vibratory Roller 8-10 tonne (6.60x0.65=4.29)			hour	4.29	1100.00	4719.00				
(ix)		Water tanker 6 KL capacity			hour	3.30	250.00	825.00				
		Total - II						37148.52				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 37148.52						742.97				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 37891.49						8146.67				
		Add Labour cess @ 1% i.e. on Rs. 46038.16						460.38				
		Labour for	225	Cum.				46498.54				
		Labour for	1	Cum.				206.66	206.66		206.66	
		Cost for	1	Cum.					844.51			
		Add 10% for sub mountainous region										20.67
		Labour for	1	Cum.								227.33
		Cost for	1	Cum.								865.18

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.16		Brick on end edging								
		Providing and laying of Brick on end edging 6.83cm wide, 11.11cm long and 22.86cm high half brick deep including excavation, refilling and disposal of surplus earth up to 50mtr complete as per Punjab PWD specifications	1	Mtr.						
I		Materials								
(i)		Bricks 1st Class including 5% wastage at site of work	Nos.	9.45	3.13	29.58				
		Total - I				29.58				
		Add contractor's profit @ 10% i.e. on Rs. 29.58				2.96				
		Add Labour cess @ 1% i.e. on Rs. 32.54				0.33				
		Cost for	1	Mtr.		32.86				
		Cost for	1	Mtr.		32.86	32.86			32.86
II		Labour								
		Taking output	120	Mtr.						
(i)		Mate		Day	0.01	151.44	1.51			
(ii)		Mason (1st class)		Day	0.50	223.36	111.68			
(iii)		Masons (IInd class)		Day	0.50	190.00	95.00			
(iv)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Total - II				495.81				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 495.81				7.44				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 503.25				108.20				
		Add Labour cess @ 1% i.e. on Rs. 611.45				6.11				
		Labour for	120	Mtr.		617.56				
		Labour for	1	Mtr.		5.15	5.15	5.15		
		Cost for	1	Mtr.			38.01			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Add 10% for sub mountainous region										0.52
		Labour for	1	Mtr.								5.67
		Cost for	1	Mtr.								38.53

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
27.17		Prime Coat @ 0.85kg per sqm								
		Providing and applying primer coat with bitumen emulsion SS on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.85kg/sqm complete as per technical clause 502 of MORT&H specifications	1	Sqm						
I		Materials								
(i)		Bulk Bitumen Emulsion SS at site of work		tonne	0.00085	24885.90	21.15			
		Total - I					21.15			
		Add contractor's profit @ 10% i.e. on Rs. 21.15					2.12			
		Add Labour cess @ 1% i.e. on Rs. 23.27					0.23			
		Cost for	1	Sqm			23.50			
		Cost for	1	Sqm			23.50		23.50	23.50
II		Labour								
		Taking output	3500	Sqm						
(i)		Mate		Day	0.08	151.44	12.12			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Machinery								
(iii)		Mechanical Broom		hour	2.80	345.00	966.00			
(iv)		Air Compressor 250cfm		hour	2.80	309.00	865.20			
(v)		Emulsion pressure distributor		hour	2.00	774.00	1548.00			
(vi)		Water tanker 6 KL capacity		hour	1.00	250.00	250.00			
		Total - II					3928.94			
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 3928.94					78.58			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 4007.52					861.62			
		Add Labour cess @ 1% i.e. on Rs. 4869.14					48.69			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Labour for	3500	Sqm				4917.83				
		Labour for	1	sqm				1.41	1.41		1.41	
		Cost for	1	sqm					24.91			
		Add 10% for sub mountainous region										0.14
		Labour for	1	sqm								1.55
		Cost for	1	sqm								25.05

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.18	a	Tack Coat @ 0.25kg per sqm								
		Providing and applying tack coat with bitumen emulsion RS using emulsion pressure distributor at the rate of 0.25 kg per sqm on the prepared bituminous surface/granular surface treated with prime coat after cleaning the surface complete as per technical clause 503 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Bulk Bitumen Emulsion RS at site of work	tonne	0.00025	25636.21	6.41				
		Total - I				6.41				
		Add contractor's profit @ 10% i.e. on Rs. 6.41				0.64				
		Add Labour cess @ 1% i.e. on Rs. 7.05				0.07				
		Cost for	1	sqm		7.12				
		Cost for	1	sqm		7.12	7.12			7.12
II		Labour								
		Taking output	3500	sqm						
(i)		Mate	Day	0.08	151.44	12.12				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
		Machinery								
(iv)		Mechanical Broom	hour	2.80	345.00	966.00				
(v)		Air Compressor 250cfm	hour	2.80	309.00	865.20				
(vi)		Emulsion pressure distributor	hour	2.00	774.00	1548.00				
		Total - II				3678.94				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 3678.94				55.18				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3734.12				802.84				
		Add Labour cess @ 1% i.e. on Rs. 4536.96				45.37				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Labour for	3500	sqm				4582.33				
		Labour for	1	sqm				1.31	1.31		1.31	
		Cost for	1	sqm					8.43			
		Add 10% for sub mountainous region										0.13
		Labour for	1	sqm								1.44
		Cost for	1	sqm								8.56

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.18 b		Tack Coat @ 0.40kg per sqm								
		Providing and applying tack coat with penetration grade bitumen VG-10 using bitumen pressure distributor at the rate of 0.40 kg per sqm on the prepared bituminous surface/granular surface treated with prime coat after cleaning the surface complete as per technical clause 503 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Bulk Bitumen VG-10 at site of work with	tonne	0.00040	33250.01	13.30				
		Total - I				13.30				
		Add contractor's profit @ 10% i.e. on Rs. 13.3				1.33				
		Add Labour cess @ 1% i.e. on Rs. 14.63				0.15				
		Cost for	1	sqm		14.78				
		Cost for	1	sqm		14.78	14.78			14.78
II		Labour								
		Taking output	3500	sqm						
(i)		Mate	Day	0.08	151.44	12.12				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
		Machinery								
(iii)		Mechanical Broom	hour	2.80	345.00	966.00				
(iv)		Air Compressor 250cfm	hour	2.80	309.00	865.20				
(v)		Bitumen pressure distributor	hour	2.00	1038.00	2076.00				
		Total - II				4206.94				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 4206.94				63.10				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 4270.04				918.06				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Add Labour cess @ 1% i.e. on Rs. 5188.1						51.88				
		Labour for	3500	sqm				5239.98				
		Labour for	1	sqm				1.50	1.50		1.50	
		Cost for	1	sqm					16.28			
		Add 10% for sub mountainous region										0.15
		Labour for	1	sqm								1.65
		Cost for	1	sqm								16.43

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.19	a	Bituminous Macadam 80mm to 100mm thickness (Grading I)								
		Providing and laying bituminous macadam 80mm to 100mm thick with batch type hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-10 @ 3.25%, carriage of mixed material to site of work, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled to achieve the desired compaction complete as per technical clause 504 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-10 at HMP @ 3.25%		tonne	0.0715	33250.01	2377.38			
		Aggregates								
		Net wt. of aggregates = 2.20-0.0715=2.1285 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.419 cum								
(ii)		37.5mm to 25mm at HMP @ 15%		Cum	0.2128	425.22	90.49			
(iii)		25mm to 10mm at HMP @ 45%		Cum	0.6386	427.40	272.94			
(iv)		Smooth Wheeled Roller 8 tonne		Cum	0.3548	300.00	106.44			
(v)		5mm and below at HMP @ 15%		Cum	0.2128	280.73	59.74			
		Total - I					2906.99			
		Add contractor's profit @ 10% i.e. on Rs. 2906.99					290.70			
		Add Labour cess @ 1% i.e. on Rs. 3197.69					31.98			
		Cost for	1	Cum			3229.67			
		Cost for	1	Cum			3229.67			3229.67
II		Labour								
		Taking output	205	Cum						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Mate			Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout of const.			Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels			Day	5.00	164.69	823.45				
		Machinery										
(iv)		Batch mix HMP			hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control			hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling			hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling			hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller			hour	8.00	1107.00	8856.00				
		Total - II						196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23						2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97						42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39						2427.59				
		Labour for 205 Cum						245186.98				
		Labour for 1 Cum						1196.03	1196.03		1196.03	
		Cost for 1 Cum							4425.70			
		Add 10% for sub mountainous region										119.60
		Labour for 1 Cum										1315.63
		Cost for 1 Cum										4545.30

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.19 b		Bituminous Macadam 50mm to 75mm thickness (Grading II)								
		Providing and laying bituminous macadam 50mm to 75mm thick with batch type hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-10 @3.4%, carriage of mixed material to site of work, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled to achieve the desired compaction complete as per technical clause 504 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-10 at HMP @ 3.4%		tonne	0.0748	33250.01	2487.10			
		Aggregates								
		Net wt. of aggregates = 2.20-0.0748=2.1252 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.4168 cum								
(ii)		25mm to 10mm at HMP @ 40%		Cum	0.5667	427.40	242.21			
(iii)		10mm to 5mm at HMP @ 40%		Cum	0.5667	461.32	261.43			
(iv)		5mm and below at HMP @ 20%		Cum	0.2834	280.73	79.56			
		Total - I					3070.30			
		Add contractor's profit @ 10% i.e. on Rs. 3070.3					307.03			
		Add Labour cess @ 1% i.e. on Rs. 3377.33					33.77			
		Cost for	1	Cum			3411.10			
		Cost for	1	Cum			3411.10			3411.10
II		Labour								
		Taking output	205	Cum						
(i)		Mate		Day	1.00	151.44	151.44			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels.	Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels	Day	5.00	164.69	823.45				
		Machinery								
(iv)		Batch mix HMP	hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control	hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA	hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity	hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling	hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling	hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller	hour	8.00	1107.00	8856.00				
		Total - II				196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23				2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97				42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39				2427.59				
		Labour for 205 Cum				245186.98				
		Labour for 1 Cum				1196.03	1196.03	1196.03		
		Cost for 1 Cum					4607.13			
		Add 10% for sub mountainous region								119.60
		Labour for 1 Cum								1315.63
		Cost for 1 Cum								4726.73

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.20		Built-up-Spray Grout 75mm thickness								
		Providing, laying and rolling of built-up-spray grout layer over prepared base consisting of a two layer composite construction of compacted crushed coarse aggregates of specified grading with application of bituminous binder VG-10 @ 1.50kg per sqm after each layer, and with key aggregates placed on top of the second layer to serve as a Base conforming to the line, grades and cross-section specified, the compacted layer thickness being 75 mm complete as per technical clause 506 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-10 at site of work @ 3 kg per sqm (1.5 kg per sqm for each layer)		tonne	0.0400	33250.01	1330.00			
		Aggregates								
(ii)		Carase aggregate passing 53mm and retained on 2.8mm sieve at site of work @0.5cum per 10 sqm for each layer		Cum	1.33	425.22	565.54			
(iii)		Key aggregates passing 22.4mm and retained on 2.8mm sieve at site of work @ 0.13 cum per 10 sqm for top layer		Cum	0.17	435.24	73.99			
		Total - I					1969.53			
		Add contractor's profit @ 10% i.e. on Rs. 1969.53					196.95			
		Add Labour cess @ 1% i.e. on Rs. 2166.48					21.66			
		Cost for	1	Cum			2188.15			
		Cost for	1	Cum			2188.15			2188.15
II		Labour								
		Taking output	225	cum						
(i)		Mate		Day	21.00	151.44	3180.24			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	377.00	143.81	54216.37			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	47.00	164.69	7740.43			
		Machinery								
(iv)		Bitumen pressure distributor		hour	3.43	1038.00	3560.34			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(v)		Smooth 3 wheeled steel Roller			hour	22.50	300.00	6750.00				
		Total - II						75447.38				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 75447.38						1131.71				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 76579.09						16464.50				
		Add Labour cess @ 1% i.e. on Rs. 93043.59						930.44				
		Labour for	225	cum				93974.03				
		Labour for	1	cum				417.66	417.66	417.66		
		Cost for	1	cum					2605.81			
		Add 10% for sub mountainous region										41.77
		Labour for	1	cum								459.43
		Cost for	1	cum								2647.58

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.21	a	Dense Graded Bituminous Macadam 80mm to 100mm thickness (Grading I)								
		Providing and laying dense graded bituminous macadam 80mm to 100mm thick with batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4%, carriage of mixed material to site of work, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete as per technical clause 507 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-30 at HMP @ 4%		tonne	0.0920	34234.02	3149.53			
		Aggregates								
		Net wt. of aggregates = 2.30-0.0920=2.208 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.472 cum								
(ii)		37.5mm to 25mm at HMP @ 22%		Cum	0.3238	425.22	137.69			
(iii)		25mm to 10mm at HMP @ 13%		Cum	0.1914	427.40	81.80			
(iv)		10mm to 4.75mm at HMP @ 19%		Cum	0.2797	461.32	129.03			
(v)		4.75mm and below at HMP @ 44%		Cum	0.6477	280.73	181.83			
(vi)		Filler at HMP @ 2% of weight of aggregates		tonne	0.0442	5687.50	251.39			
		Total - I					3931.27			
		Add contractor's profit @ 10% i.e. on Rs. 3931.27					393.13			
		Add Labour cess @ 1% i.e. on Rs. 4324.4					43.24			
		Cost for	1	Cum			4367.64			
		Cost for	1	Cum			4367.64			4367.64
II		Labour								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Taking output	195	cum						
(i)		Mate	Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout	Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels	Day	5.00	164.69	823.45				
		Machinery								
(iv)		Batch mix HMP	hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control	hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA	hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity	hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling	hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling	hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller	hour	8.00	1107.00	8856.00				
		Total - II				196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23				2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97				42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39				2427.59				
		Labour for	195	cum		245186.98				
		Labour for	1	cum		1257.37	1257.37		1257.37	
		Cost for	1	cum			5625.01			
		Add 10% for sub mountainous region								125.74
		Labour for	1	cum						1383.11
		Cost for	1	cum						5750.75

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.21	b	Dense Graded Bituminous Macadam 50mm to 75mm thickness (Grading II)								
		Providing and laying dense graded bituminous macadam 50mm to 75mm thick with batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4.5%, carriage of mixed material to site of work, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete as per technical clause 507 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-30 at HMP @ 4.5%		tonne	0.1035	34234.02	3543.22			
		Aggregates								
		Net wt. of aggregates = 2.30-0.1035=2.1965 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.4643 cum								
(ii)		25mm to 10mm at HMP @ 30%		Cum	0.4393	427.40	187.76			
(iii)		10mm to 5mm at HMP @ 28%		Cum	0.4100	435.24	178.45			
(iv)		5mm and below at HMP @ 40%		Cum	0.5857	280.73	164.42			
(v)		Filler at HMP @ 2% of weight of aggregates		tonne	0.0439	5687.50	249.68			
		Total - I					4323.53			
		Add contractor's profit @ 10% i.e. on Rs. 4323.53					432.35			
		Add Labour cess @ 1% i.e. on Rs. 4755.88					47.56			
		Cost for	1	Cum			4803.44			
		Cost for	1	Cum			4803.44			4803.44
II		Labour								
		Taking output	195	cum						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Mate			Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout			Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels			Day	5.00	164.69	823.45				
		Machinery										
(iv)		Batch mix HMP			hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control			hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling			hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling			hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller			hour	8.00	1107.00	8856.00				
		Total - II						196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23						2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97						42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39						2427.59				
		Labour for 195 cum						245186.98				
		Labour for 1 cum						1257.37	1257.37	1257.37		
		Cost for 1 cum							6060.81			
		Add 10% for sub mountainous region										125.74
		Labour for 1 cum										1383.11
		Cost for 1 cum										6186.55

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.22	a	Semi-Dense Bituminous Concrete 35mm to 40mm thickness (Grading I)								
		Providing and laying semi dense bituminous concrete 35mm to 40mm thick with batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4.5%, carriage of mixed material to site of work, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete as per technical clause 508 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-30 at HMP @ 4.5%		tonne	0.1035	34234.02	3543.22			
		Aggregates								
		Net wt. of aggregates = 2.30-0.1035=2.1965 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.4643 cum								
(ii)		13.2mm to 10mm at HMP @ 20%		Cum	0.2929	427.40	125.19			
(iii)		10mm to 5mm at HMP @ 38%		Cum	0.5564	461.32	256.68			
(iv)		5mm and below at HMP @ 40%		Cum	0.5857	280.73	164.42			
(v)		Filler at HMP @ 2% of weight of aggregates		tonne	0.0439	5687.50	249.68			
		Total - I					4339.19			
		Add contractor's profit @ 10% i.e. on Rs. 4339.19					433.92			
		Add Labour cess @ 1% i.e. on Rs. 4773.11					47.73			
		Cost for	1	Cum			4820.84			
		Cost for	1	Cum			4820.84			4820.84
II		Labour								
		Taking output	195	cum						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Mate			Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout			Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels			Day	5.00	164.69	823.45				
		Machinery										
(iv)		Batch mix HMP			hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control			hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling			hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling			hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller			hour	8.00	1107.00	8856.00				
		Total - II						196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23						2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97						42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39						2427.59				
		Labour for 195 cum						245186.98				
		Labour for 1 cum						1257.37	1257.37		1257.37	
		Cost for 1 cum							6078.21			
		Add 10% for sub mountainous region										125.74
		Labour for 1 cum										1383.11
		Cost for 1 cum										6203.95

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.22	b	Semi-Dense Bituminous Concrete 25mm to 30mm thickness (Grading II)								
		Providing and laying semi dense bituminous concrete 25mm to 30mm thick with batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 5%, carriage of mixed material to site of work, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete as per technical clause 508 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-30 at HMP @ 5%		tonne	0.1150	34234.02	3936.91			
		Aggregates								
		Net wt. of aggregates = 2.30-0.1150=2.185 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.4567 cum								
(ii)		9.5mm to 4.75mm at HMP @ 57%		Cum	0.8303	461.32	383.03			
(iii)		4.75mm and below at HMP @ 41%		Cum	0.5973	280.73	167.68			
(iv)		Filler at HMP @ 2% of weight of aggregates		tonne	0.0437	5687.50	248.54			
		Total - I					4736.16			
		Add contractor's profit @ 10% i.e. on Rs. 4736.16					473.62			
		Add Labour cess @ 1% i.e. on Rs. 5209.78					52.10			
		Cost for	1	Cum			5261.87			
		Cost for	1	Cum			5261.87			5261.87
II		Labour								
		Taking output	195	cum						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Mate			Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout of const.			Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels			Day	5.00	164.69	823.45				
		Machinery										
(iv)		Batch mix HMP			hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control			hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling			hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling			hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller			hour	8.00	1107.00	8856.00				
		Total - II						196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23						2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97						42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39						2427.59				
		Labour for	195	cum				245186.98				
		Labour for	1	cum				1257.37	1257.37		1257.37	
		Cost for	1	cum					6519.24			
		Add 10% for sub mountainous region										125.74
		Labour for	1	cum								1383.11
		Cost for	1	cum								6644.98

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.23	a	Bituminous Concrete 50mm to 65mm thickness (Grading I)								
		Providing and laying bituminous concrete 50mm to 65mm thick with batch type hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 5.5%, carriage of mixed material to site of work, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete as per technical clause 509 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bulk Bitumen VG-30 at HMP @ 5.5%		tonne	0.1293	34234.02	4426.46			
		Aggregates								
		Net wt. of aggregates = 2.35-0.1293=2.2207 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.4805 cum								
(ii)		20mm to 10mm at HMP @ 35%		Cum	0.5182	435.24	225.54			
(iii)		10mm to 5mm at HMP @ 23%		Cum	0.3405	461.32	157.08			
(iv)		5mm and below at HMP @ 40%		Cum	0.5922	280.73	166.25			
(v)		Filler at HMP @ 2% of weight of aggregates		tonne	0.0444	5687.50	252.53			
		Total - I					5227.86			
		Add contractor's profit @ 10% i.e. on Rs. 5227.86					522.79			
		Add Labour cess @ 1% i.e. on Rs. 5750.65					57.51			
		Cost for	1	Cum			5808.15			
		Cost for	1	Cum			5808.15			5808.15
II		Labour								
		Taking output	191	cum						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Mate			Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout			Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels			Day	5.00	164.69	823.45				
		Machinery										
(iv)		Batch mix HMP			hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control			hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling			hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling			hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller			hour	8.00	1107.00	8856.00				
		Total - II						196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23						2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97						42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39						2427.59				
		Labour for	191	cum				245186.98				
		Labour for	1	cum				1283.70	1283.70	1283.70		
		Cost for	1	cum					7091.85			
		Add 10% for sub mountainous region										128.37
		Labour for	1	cum								1412.07
		Cost for	1	cum								7220.22

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.23 b		Bituminous Concrete 30mm to 45mm thickness (Grading II)								
		Providing and laying bituminous concrete 30mm to 45mm thick with batch type hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 6%, carriage of mixed material to site of work, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete as per technical clause 509 of MORT&H specifications	1	Cum						
I		Materials								
(i)		Bitumen VG-30 at HMP @ 6%		tonne	0.1380	34234.02	4724.29			
		Aggregates								
		Net wt. of aggregates = 2.35-0.138=2.212 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates=1.4747 cum								
(ii)		13.2mm to 10mm at HMP @ 30%		Cum	0.4424	435.24	192.55			
(iii)		10mm to 5mm at HMP @ 25%		Cum	0.3687	461.32	170.09			
(iv)		5mm and below at HMP @ 43%		Cum	0.6341	280.73	178.01			
(v)		Filler at HMP @ 2% of weight of aggregates		tonne	0.0442	5687.50	251.39			
		Total - I					5516.33			
		Add contractor's profit @ 10% i.e. on Rs. 5516.33					551.63			
		Add Labour cess @ 1% i.e. on Rs. 6067.96					60.68			
		Cost for	1	Cum			6128.64			
		Cost for	1	Cum			6128.64			6128.64
II		Labour								
		Taking output	191	cum						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Mate			Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller, asphalt, cutter and assistance for setting out lines, levels and layout			Day	14.00	143.81	2013.34				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels			Day	5.00	164.69	823.45				
		Machinery										
(iv)		Batch mix HMP			hour	6.00	22650.00	135900.00				
(v)		Paver finisher hydrostatic with sensor control			hour	8.00	2587.50	20700.00				
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne for initial break down rolling			hour	16.00	300.00	4800.00				
(ix)		Vibratory roller 8 tonne for intermediate rolling			hour	8.00	1100.00	8800.00				
(x)		Finishing rolling with 6-8 tonne Smooth wheeled tandem roller			hour	8.00	1107.00	8856.00				
		Total - II						196849.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 196849.23						2952.74				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 199801.97						42957.42				
		Add Labour cess @ 1% i.e. on Rs. 242759.39						2427.59				
			Labour for	191	cum			245186.98				
			Labour for	1	cum			1283.70	1283.70	1283.70		
			Cost for	1	cum				7412.34			
		Add 10% for sub mountainous region										128.37
			Labour for	1	cum							1412.07
			Cost for	1	cum							7540.71

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.24		Surface Dressing								
		Providing and laying surface dressing in single coat using crushed stone aggregates of specified size on a layer of bituminous binder VG-10 @ 1kg per sqm laid on prepared surface after cleaning the road surface and rolling with 8-10 tonne smooth wheeled steel roller complete as per technical clause 510 of MORT&H specifications	1 sqm							
I		Materials								
(i)		Bitumen VG-10 at site of work @ 1 kg per sqm	tonne	0.001	33250.01	33.25				
		Aggregates								
(ii)		Crushed stone aggregates 13mm nominal size at site of work @ 0.01cum per sqm	Cum	0.01	435.24	4.35				
		Total - I				37.60				
		Add contractor's profit @ 10% i.e. on Rs. 37.6				3.76				
		Add Labour cess @ 1% i.e. on Rs. 41.36				0.41				
		Cost for 1 sqm	1 sqm			41.77				
		Cost for 1 sqm	1 sqm			41.77	41.77			41.77
II		Labour								
		Taking output	900 sqm							
(i)		Mate	Day	1.00	151.44	151.44				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	20.00	143.81	2876.20				
(iii)		Mazdoor Skilled (Skilled Upper)	Day	2.00	164.69	329.38				
		Machinery								
(iv)		Bitumen pressure distributor	hour	2.25	1038.00	2335.50				
(v)		Smooth wheeled Roller 8-10 tonne weight	hour	2.25	300.00	675.00				
		Total - II				6367.52				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 6367.52				95.51				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 6463.03				1389.55				
		Add Labour cess @ 1% i.e. on Rs. 7852.58				78.53				
		Labour for 900 sqm				7931.11				
		Labour for 1 sqm				8.81	8.81		8.81	
		Cost for 1 sqm					50.58			
		Add 10% for sub mountainous region								0.88
		Labour for 1 sqm								9.69
		Cost for 1 sqm								51.46

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.25		Open - Graded Premix Surfacing 20mm thickness								
		Providing, laying and compaction of open - graded premix surfacing of 20 mm thickness consisting of crushed stone aggregates of specified grading premixed in a batch type hot mix plant with bituminous binder VG-10 @ 1.46kg per sqm, carriage of mixed material to site of work and laid with paver and rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades complete as per technical clause 511 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Bitumen VG-10 at HMP @ 14.60 kg per 10sqm		tonne	0.00146	33250.01	48.55			
		Aggregates								
(ii)		Crushed stone aggregates 13.2mm to 5.6mm at HMP @0.27 cum per 10sqm		Cum	0.027	435.24	11.75			
		Total - I					60.30			
		Add contractor's profit @ 10% i.e. on Rs. 60.3					6.03			
		Add Labour cess @ 1% i.e. on Rs. 66.33					0.66			
		Cost for	1	sqm			66.99			
		Cost for	1	sqm			66.99	66.99		66.99
II		Labour								
		Taking output	10250	sqm						
(i)		Mate		Day	1.00	151.44	151.44			
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller and road sweeper		Day	14.00	143.81	2013.34			
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels		Day	5.00	164.69	823.45			
		Machinery								
(iv)		Batch mix HMP		hour	6.00	22650.00	135900.00			
(v)		Paver finisher hydrostatic with sensor control		hour	8.00	2587.50	20700.00			
(vi)		Generator 250 KVA		hour	6.00	1687.50	10125.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne weight			hour	36.00	300.00	10800.00				
		Total - II						185193.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 185193.23						2777.90				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 187971.13						40413.79				
		Add Labour cess @ 1% i.e. on Rs. 228384.92						2283.85				
		Labour for	10250	sqm				230668.77				
		Labour for	1	sqm				22.50	22.50		22.50	
		Cost for	1	sqm					89.49			
		Add 10% for sub mountainous region										2.25
		Labour for	1	sqm								24.75
		Cost for	1	sqm								91.74

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.26	a	Close Graded Premix Surfacing/ Mixed Seal Surfacing 20mm thickness (Type A)								
		Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness Type A consisting of crushed stone aggregates of specified grading premixed in a batch type hot mix plant with bituminous binder VG-10 @ 2.2kg per sqm, carriage of mixed material to site of work, laying with paver and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to required level and grade complete as per technical clause 512 of MORT&H specifications	1	sqm						
I		Materials (Type A)								
(i)		Bitumen VG-10 at HMP @ 22 kg per 10sqm		tonne	0.0022	33250.01	73.15			
		Aggregates								
(ii)		Crushed stone aggregates 11.2mm to 0.09mm at HMP @0.27 cum per 10sqm		Cum	0.027	461.32	12.46			
		Total - I					85.61			
		Add contractor's profit @ 10% i.e. on Rs. 85.61					8.56			
		Add Labour cess @ 1% i.e. on Rs. 94.17					0.94			
		Cost for	1	sqm			95.11			
		Cost for	1	sqm			95.11			95.11
II		Labour								
		Taking output	10250	sqm						
(i)		Mate		Day	1.00	151.44	151.44			
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller and road sweeper		Day	14.00	143.81	2013.34			
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels		Day	5.00	164.69	823.45			
		Machinery								
(iv)		Batch mix HMP		hour	6.00	22650.00	135900.00			
(v)		Paver finisher hydrostatic with sensor control		hour	8.00	2587.50	20700.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne weight			hour	40.00	300.00	12000.00				
		Total - II						186393.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 186393.23						2795.90				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 189189.13						40675.66				
		Add Labour cess @ 1% i.e. on Rs. 229864.79						2298.65				
		Labour for	10250	sqm				232163.44				
		Labour for	1	sqm				22.65	22.65		22.65	
		Cost for	1	sqm					117.76			
		Add 10% for sub mountainous region										2.27
		Labour for	1	sqm								24.92
		Cost for	1	sqm								120.03

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.26	b	Close Graded Premix Surfacing/ Mixed Seal Surfacing 20mm thickness (Type B)								
		Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness Type B consisting of crushed stone aggregates of specified grading premixed in a batch type hot mix plant with bituminous binder VG-10 @ 1.9kg per sqm, carriage of mixed material to site of work, laying with paver and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to required level and grade complete as per technical clause 512 of MORT&H specifications	1	sqm						
I		Materials (Type B)								
(i)		Bitumen VG-10 at HMP @ 19 kg per 10sqm		tonne	0.0019	33250.01	63.18			
		Aggregates								
(ii)		Crushed stone aggregates 13.2mm to 0.09mm at HMP @0.27 cum per 10sqm		Cum	0.027	461.32	12.46			
		Total - I					75.64			
		Add contractor's profit @ 10% i.e. on Rs. 75.64					7.56			
		Add Labour cess @ 1% i.e. on Rs. 83.2					0.83			
		Cost for	1	sqm			84.04			
		Cost for	1	sqm			84.04			84.04
II		Labour								
		Taking output	10250	sqm						
(i)		Mate		Day	1.00	151.44	151.44			
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller and road sweeper		Day	14.00	143.81	2013.34			
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels		Day	5.00	164.69	823.45			
		Machinery								
(iv)		Batch mix HMP		hour	6.00	22650.00	135900.00			
(v)		Paver finisher hydrostatic with sensor control		hour	8.00	2587.50	20700.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vi)		Generator 250 KVA			hour	6.00	1687.50	10125.00				
(vii)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(viii)		Smooth wheeled roller 8-10 tonne weight			hour	40.00	300.00	12000.00				
		Total - II						186393.23				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 186393.23						2795.90				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 189189.13						40675.66				
		Add Labour cess @ 1% i.e. on Rs. 229864.79						2298.65				
		Labour for	10250	sqm				232163.44				
		Labour for	1	sqm				22.65	22.65		22.65	
		Cost for	1	sqm					106.69			
		Add 10% for sub mountainous region										2.27
		Labour for	1	sqm								24.92
		Cost for	1	sqm								108.96

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.27	a	Seal Coat Type A								
		Providing and laying seal coat type A (Liquid Seal Coat) sealing the voids in a bituminous surface using crushed stone aggregates and penetration grade bitumen VG-10 @ 0.98kg per sqm laid to the specified levels, grade and cross fall complete as per technical clause 513 of MORT&H specifications	1	sqm						
I		Materials (Type A)								
(i)		Bitumen VG-10 at site of work @ 9.80 kg per 10sqm		tonne	0.00098	33250.01	32.59			
		Aggregates								
(ii)		Crushed stone aggregates 6.7mm size at site of work @0.09 cum per 10sqm		Cum	0.009	461.32	4.15			
		Total - I					36.74			
		Add contractor's profit @ 10% i.e. on Rs. 36.74					3.67			
		Add Labour cess @ 1% i.e. on Rs. 40.41					0.40			
		Cost for	1	sqm			40.82			
		Cost for	1	sqm			40.82		40.82	40.82
II		Labour								
		Taking output	1300	sqm						
(i)		Mate		Day	1.00	151.44	151.44			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	20.00	143.81	2876.20			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iv)		Bitumen pressure distributor		hour	3.25	1038.00	3373.50			
(v)		Smooth wheeled Roller 8-10 tonne weight		hour	3.25	300.00	975.00			
		Total - II					7705.52			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 7705.52					115.58			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 7821.1				1681.54				
		Add Labour cess @ 1% i.e. on Rs. 9502.64				95.03				
		Labour for 1300 sqm				9597.67				
		Labour for 1 sqm				7.38	7.38		7.38	
		Cost for 1 sqm					48.20			
		Add 10% for sub mountainous region								0.74
		Labour for 1 sqm								8.12
		Cost for 1 sqm								48.94

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.27 b		Seal Coat Type B										
		Providing and laying of premix sand seal coat premixed in batch type hot mix plant using specified fine aggregates and penetration grade bitumen VG-10 @ 0.68kg per sqm, carriage of mixed material to site of work, laid to the specified levels, grade and cross fall complete as per technical clause 513 of MORT&H specifications	1	sqm								
I		Materials (Type B)										
(i)		Bitumen VG-10 at HMP @ 6.80 kg per 10sqm			tonne	0.00068	33250.01	22.61				
		Aggregates										
(ii)		Fine aggregates at HMP @0.06cum per 10sqm			Cum	0.006	280.73	1.68				
		Total - I						24.29				
		Add contractor's profit @ 10% i.e. on Rs. 24.29						0.24				
		Add Labour cess @ 1% i.e. on Rs. 24.53						0.37				
		Cost for	1	sqm				24.90				
		Cost for	1	sqm				24.90	24.90			24.90
II		Labour										
		Taking output	7858	sqm								
(i)		Mate			Day	3.00	151.44	454.32				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	65.00	143.81	9347.65				
(iii)		Mazdoor Skilled (Skilled Upper)			Day	7.00	164.69	1152.83				
		Machinery										
(iv)		Batch mix HMP			hour	2.00	22650.00	45300.00				
(v)		Generator 250 KVA			hour	2.00	1687.50	3375.00				
(vi)		Front end loader 1cum bucket capacity			hour	2.00	780.00	1560.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vii)		Smooth wheeled roller 8-10 tonne weight			hour	15.72	300.00	4716.00				
		Total - II						65905.80				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 65905.8						988.59				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 66894.39						14382.29				
		Add Labour cess @ 1% i.e. on Rs. 81276.68						812.77				
		Labour for	7858	sqm				82089.45				
		Labour for	1	sqm				10.45	10.45		10.45	
		Cost for	1	sqm					35.35			
		Add 10% for sub mountainous region										1.05
		Labour for	1	sqm								11.50
		Cost for	1	sqm								36.40

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.28		Mastic Asphalt 25mm thickness								
		Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen 85/25 or 30/40 @10.2%, fine aggregates, coarse aggregates, lime filler @ 17.92% of total mix, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surface is not less than 100 degree C, protruding 1 mm to 4 mm over mastic surface complete as per technical clause 515 of MORT&H specifications.	1	Sqm.						
I		Materials (Type B)								
		Base Mastic= 60%								
		Coarse Aggregates=40%								
(i)		Bitumen 85/25 or 30/40 at site of work @ 10.2% by weight of mix		tonne	0.00583	36.40	0.21			
		Aggregates								
(ii)		Fine aggregates passing 2.36mm and retained on 0.075mm at site of work @ 31.9% by weight of mix=0.638 tonne(0.638/1.625=0.39cum)		Cum	0.0111	280.73	3.12			
(iii)		Lime Stone Dust filler at site of work @ 17.92% by weight of mix =0.36 tonne		Cum	0.0103	5687.50	58.58			
(iv)		Coarse aggregates 6.3mm to 13.2mm at site of work @ 40% by weight of mix=0.80 tonne(0.80/1.456=0.55cum)		Cum	0.0157	461.32	7.24			
(v)		Pre Coated Stone Chips of 13.2mm nominal size for skid resistance at site of work @0.005cum per 10sqm		Cum	0.0005	435.24	0.22			
(vi)		Bitumen 85/25 or 30/40 for coating of chips at site of work @ 2% by weight of pre coated stone chips=0.018x1.456x2%= 0.0005 tonne or 0.50kg		kg	0.0143	36.40	0.52			
		Total - I					69.89			
		Add contractor's profit @ 10% i.e. on Rs. 69.89					6.99			
		Add Labour cess @ 1% i.e. on Rs. 76.88					0.77			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 Sqm.				77.65				
		Cost for 1 Sqm.				77.65	77.65			77.65
II		Labour								
		Taking output 35 sqm								
(i)		Mate	Day	0.44	151.44	66.63				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	10.00	143.81	1438.10				
(iii)		Mazdoor Skilled (Skilled Upper)	Day	1.00	164.69	164.69				
		Machinery								
(iv)		Mastic cooker 1 tonne capacity	hour	6.00	60.00	360.00				
(v)		Bitumen boiler 1500 litres capacity	hour	6.00	192.00	1152.00				
(vi)		Tractor for towing and positioning of mastic cooker and bitumen boiler	hour	1.00	250.00	250.00				
		Total - II				3431.42				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 3431.42				51.47				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3482.89				748.82				
		Add Labour cess @ 1% i.e. on Rs. 4231.71				42.32				
		Labour for 35 sqm				4274.03				
		Labour for 1 sqm				122.12	122.12		122.12	
		Cost for 1 sqm					199.77			
		Add 10% for sub mountainous region								12.21
		Labour for 1 sqm								134.33
		Cost for 1 sqm								211.98

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.29	a	Slurry Seal 5mm thickness								
		Providing and laying slurry seal consisting of a mixture of fine aggregates, portland cement filler, bituminous emulsion RS @ 11% and water on a road surface including cleaning of surface, mixing of slurry seal in a suitable mobile plant, laying and compacting to provide even riding surface complete as per technical clause 516 of MORT&H specifications	1	Sqm.						
I		Materials								
(i)		Bitumen Emulsion RS at site of work @11% of weight of mix		tonne	0.00121	25636.21	31.02			
		Aggregates								
(ii)		Fine aggregates 4.75mm and below at site of work @ 87% of weight of mix=153.12 tonne/1.5= 102.08 cum		Cum	0.0064	280.73	1.80			
(iii)		Filler at site of work @2% of weight of mix		tonne	0.00022	5687.50	1.25			
		Total - I					34.07			
		Add contractor's profit @ 10% i.e. on Rs. 34.07					3.41			
		Add Labour cess @ 1% i.e. on Rs. 37.48					0.37			
		Cost for	1	Sqm.			37.85			
		Cost for	1	Sqm.			37.85		37.85	37.85
II		Labour								
		Taking output	16000	sqm						
(i)		Mate		Day	0.24	151.44	36.35			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	6.00	143.81	862.86			
		Machinery								
(iii)		Mechanical Broom		hour	6.00	345.00	2070.00			
(iv)		Air Compressor 250cfm		hour	6.00	309.00	1854.00			
(v)		Mobile slurry seal equipment		hour	6.00	975.00	5850.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vi)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(vii)		Tipper 5.5cum capacity for carriage of aggregate from stockpile to slurry seal equipment			hour	6.00	300.00	1800.00				
(viii)		Pneumatic tyred roller with individual wheel load not exceeding 1.5 tonne			hour	6.00	1203.00	7218.00				
(ix)		Water tanker 6 KL capacity			hour	2.00	250.00	500.00				
		Total - II						24871.21				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 24871.21						497.42				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 25368.63						5454.26				
		Add Labour cess @ 1% i.e. on Rs. 30822.89						308.23				
		Labour for 16000 sqm	16000	sqm				31131.12				
		Labour for 1 sqm	1	sqm				1.95	1.95	1.95		
		Cost for 1 sqm	1	sqm					39.80			
		Add 10% for sub mountainous region										0.20
		Labour for 1 sqm	1	sqm								2.15
		Cost for 1 sqm	1	sqm								40.00

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.29 b		Slurry Seal 3mm thickness								
		Providing and laying slurry seal consisting of a mixture of fine aggregates, portland cement filler, bituminous emulsion RS @ 13% and water on a road surface including cleaning of surface, mixing of slurry seal in a suitable mobile plant, laying and compacting to provide even riding surface complete as per technical clause 516 of MORT&H specifications	1	Sqm.						
I		Materials								
(i)		Bitumen Emulsion RS at site of work @13% of weight of mix		tonne	0.000858	25636.21	22.00			
		Aggregates								
(ii)		Fine aggregates 3mm and below at site of work @ 85% of weight of mix=11.2 tonne/1.5= 74.80 cum		Cum	0.00374	280.73	1.05			
(iii)		Filler at site of work @2% of weight of mix		tonne	0.00013	5687.50	0.74			
		Total - I					23.79			
		Add contractor's profit @ 10% i.e. on Rs. 23.79					2.38			
		Add Labour cess @ 1% i.e. on Rs. 26.17					0.26			
		Cost for	1	Sqm.			26.43			
		Cost for	1	Sqm.			26.43		26.43	26.43
II		Labour								
		Taking output	20000	sqm						
(i)		Mate		Day	0.20	151.44	30.29			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	5.00	143.81	719.05			
		Machinery								
(iii)		Mechanical Broom		hour	6.00	345.00	2070.00			
(iv)		Air Compressor 250cfm		hour	6.00	309.00	1854.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(v)		Mobile slurry seal equipment			hour	6.00	975.00	5850.00				
(vi)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(vii)		Tipper 5.5cum capacity for carriage of aggregate from stockpile to slurry seal equipment			hour	6.00	300.00	1800.00				
(viii)		Water tanker 6 KL capacity			hour	2.00	250.00	500.00				
		Total - II						17503.34				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 17503.34						350.07				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 17853.41						3838.48				
		Add Labour cess @ 1% i.e. on Rs. 21691.89						216.92				
		Labour for	20000	sqm				21908.81				
		Labour for	1	sqm				1.10	1.10	1.10		
		Cost for	1	sqm					27.53			
		Add 10% for sub mountainous region										0.11
		Labour for	1	sqm								1.21
		Cost for	1	sqm								27.64

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.29	c	Slurry Seal 1.5mm thickness								
		Providing and laying slurry seal consisting of a mixture of fine aggregates, portland cement filler, bituminous emulsion RS @ 16% and water on a road surface including cleaning of surface, mixing of slurry seal in a suitable mobile plant, laying and compacting to provide even riding surface complete as per technical clause 516 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Bitumen Emulsion RS at site of work @16% of weight of mix		tonne	0.00053	25636.21	13.59			
		Aggregates								
(ii)		Fine aggregates 2.36mm and below at site of work @ 82% of weight of mix=64.94 tonne/1.5= 43.30 cum		Cum	0.0018	280.73	0.51			
(iii)		Filler at site of work @2% of weight of mix		tonne	0.00007	5687.50	0.40			
		Total - I					14.50			
		Add contractor's profit @ 10% i.e. on Rs. 14.5					1.45			
		Add Labour cess @ 1% i.e. on Rs. 15.95					0.16			
		Cost for	1	sqm			16.11			
		Cost for	1	sqm			16.11		16.11	16.11
II		Labour								
		Taking output	24000	sqm						
(i)		Mate		Day	0.20	151.44	30.29			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	5.00	143.81	719.05			
		Machinery								
(iii)		Mechanical Broom		hour	6.00	345.00	2070.00			
(iv)		Air Compressor 250cfm		hour	6.00	309.00	1854.00			
(v)		Mobile slurry seal equipment		hour	6.00	975.00	5850.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vi)		Front end loader 1cum bucket capacity			hour	6.00	780.00	4680.00				
(vii)		Tipper 5.5cum capacity for carriage of aggregate from stockpile to slurry seal equipment			hour	6.00	300.00	1800.00				
(viii)		Water tanker 6 KL capacity			hour	2.00	250.00	500.00				
		Total - II						17503.34				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 17503.34						350.07				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 17853.41						3838.48				
		Add Labour cess @ 1% i.e. on Rs. 21691.89						216.92				
		Labour for	24000	sqm				21908.81				
		Labour for	1	sqm				0.91	0.91	0.91		
		Cost for	1	sqm					17.02			
		Add 10% for sub mountainous region										0.09
		Labour for	1	sqm								1.00
		Cost for	1	sqm								17.11

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.30		Fog Spray										
		Providing and applying low viscosity bitumen emulsion RS @ 0.75kg per sqm for sealing cracks less than 3 mm wide or incipient fretting or disintegration in an existing bituminous surfacing complete as per technical clause 518 of MORT&H specifications	1	sqm								
I		Materials										
(i)		Bitumen Emulsion RS at site of work @ 0.75 kg per sqm			tonne	0.00075	25636.21	19.23				
		Total - I						19.23				
		Add contractor's profit @ 10% i.e. on Rs. 19.23						1.92				
		Add Labour cess @ 1% i.e. on Rs. 21.15						0.21				
		Cost for	1	sqm				21.36				
		Cost for	1	sqm				21.36	21.36			21.36
II		Labour										
		Taking output	10500	sqm								
(i)		Mate			Day	0.12	151.44	18.17				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	3.00	143.81	431.43				
		Machinery										
(iii)		Mechanical Broom			hour	6.00	345.00	2070.00				
(iv)		Air Compressor 250cfm			hour	6.00	309.00	1854.00				
(v)		Emulsion pressure distributor			hour	6.00	774.00	4644.00				
		Total - II						9017.60				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 9017.6						135.26				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 9152.86						1967.86				
		Add Labour cess @ 1% i.e. on Rs. 11120.72						111.21				
		Labour for	10500	sqm				11231.93				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Labour for	1	sqm				1.07	1.07		1.07	
		Cost for	1	sqm					22.43			
		Add 10% for sub mountainous region										0.11
		Labour for	1	sqm								1.18
		Cost for	1	sqm								22.54

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.31	a	Crack Prevention Courses (Stress Absorbing Membrane crack width less than 6mm)								
		Laying of a stress absorbing membrane over a cracked road surface after cleaning the road surface, using modified binder CRMB-55 complying with clause 521 @ 0.90kg per sqm and crushed stone aggregates of specified grading, spraying binder and spreading crushed stone aggregates, sweeping the surface for uniform spread of aggregates complete as per technical clause 522 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Modified Bitumen at site of work @ 0.90 kg per sqm	tonne	0.0009	35328.73	31.80				
(ii)		Crushed Stone Aggregates 5.6mm size at site of work @0.01cum per sqm	cum	0.010	461.32	4.61				
		Total - I				36.41				
		Add contractor's profit @ 10% i.e. on Rs. 36.41				3.64				
		Add Labour cess @ 1% i.e. on Rs. 40.05				0.40				
		Cost for	1	sqm		40.45				
		Cost for	1	sqm		40.45	40.45			40.45
II		Labour								
		Taking output	10500	sqm						
(i)		Mate	Day	0.24	151.44	36.35				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	6.00	143.81	862.86				
		Machinery								
(iii)		Mechanical Broom	hour	6.00	345.00	2070.00				
(iv)		Air Compressor 250cfm	hour	6.00	309.00	1854.00				
(v)		Bitumen pressure distributor	hour	6.00	1038.00	6228.00				
(vi)		Hydraulic chip spreader	hour	6.00	2550.00	15300.00				
(vii)		Smooth wheeled road roller 8-10 tonne	hour	6.00	300.00	1800.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						28151.21				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 28151.21						422.27				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 28573.48						6143.30				
		Add Labour cess @ 1% i.e. on Rs. 34716.78						347.17				
		Labour for	10500	sqm				35063.95				
		Labour for	1	sqm				3.34	3.34		3.34	
		Cost for	1	sqm					43.79			
		Add 10% for sub mountainous region										0.33
		Labour for	1	sqm								3.67
		Cost for	1	sqm								44.12

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.31	b	Crack Prevention Courses (Stress Absorbing Membrane crack width 6mm to 9mm)								
		Laying of a stress absorbing membrane over a cracked road surface after cleaning the road surface, using modified binder CRMB-55 complying with clause 521 @ 1.1kg per sqm and crushed stone aggregates of specified grading, spraying binder and spreading crushed stone aggregates, sweeping the surface for uniform spread of aggregates complete as per technical clause 522 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Modified Bitumen at site of work @ 1.10 kg per sqm		tonne	0.0011	35328.73	38.86			
(ii)		Crushed Stone Aggregates 11.2mm size at site of work @0.01cum per sqm		cum	0.010	461.32	4.61			
		Total - I					38.86			
		Add contractor's profit @ 10% i.e. on Rs. 38.86					3.89			
		Add Labour cess @ 1% i.e. on Rs. 42.75					0.43			
		Cost for	1	sqm			43.17			
		Cost for	1	sqm			43.17			43.17
II		Labour								
		Taking output	10500	sqm						
(i)		Mate		Day	0.24	151.44	36.35			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	6.00	143.81	862.86			
		Machinery								
(iii)		Mechanical Broom		hour	6.00	345.00	2070.00			
(iv)		Air Compressor 250cfm		hour	6.00	309.00	1854.00			
(v)		Bitumen pressure distributor		hour	6.00	1038.00	6228.00			
(vi)		Hydraulic chip spreader		hour	6.00	2550.00	15300.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vii)		Smooth wheeled road roller 8-10 tonne			hour	6.00	300.00	1800.00				
		Total - II						28151.21				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 28151.21						422.27				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 28573.48						6143.30				
		Add Labour cess @ 1% i.e. on Rs. 34716.78						347.17				
		Labour for	10500	sqm				35063.95				
		Labour for	1	sqm				3.34	3.34	3.34		
		Cost for	1	sqm					46.51			
		Add 10% for sub mountainous region										0.33
		Labour for	1	sqm								3.67
		Cost for	1	sqm								46.84

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.31	c	Crack Prevention Courses (Stress Absorbing Membrane crack width above 9mm and cracked area above 50%)								
		Laying of a stress absorbing membrane over a cracked road surface after cleaning the road surface, using modified binder CRMB-55 complying with clause 521 @ 1.5kg per sqm and crushed stone aggregates of specified grading, spraying binder and spreading crushed stone aggregates, sweeping the surface for uniform spread of aggregates complete as per technical clause 522 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Modified Bitumen at site of work @ 1.50 kg per sqm		tonne	0.0015	35328.73	52.99			
(ii)		Crushed Stone Aggregates 11.2mm size at site of work @0.012cum per sqm		cum	0.012	461.32	5.54			
		Total - I					58.53			
		Add contractor's profit @ 10% i.e. on Rs. 58.53					5.85			
		Add Labour cess @ 1% i.e. on Rs. 64.38					0.64			
		Cost for	1	sqm			65.03			
		Cost for	1	sqm			65.03	65.03		65.03
II		Labour								
		Taking output	10500	sqm						
(i)		Mate		Day	0.24	151.44	36.35			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	6.00	143.81	862.86			
		Machinery								
(iii)		Mechanical Broom		hour	6.00	345.00	2070.00			
(iv)		Air Compressor 250cfm		hour	6.00	309.00	1854.00			
(v)		Bitumen pressure distributor		hour	6.00	1038.00	6228.00			
(vi)		Hydraulic chip spreader		hour	6.00	2550.00	15300.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vii)		Smooth wheeled road roller 8-10 tonne			hour	6.00	300.00	1800.00				
		Total - II						28151.21				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 28151.21						422.27				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 28573.48						6143.30				
		Add Labour cess @ 21.5% i.e. on Rs. 34716.78						347.17				
		Labour for	10500	sqm				35063.95				
		Labour for	1	sqm				3.34	3.34		3.34	
		Cost for	1	sqm					68.37			
		Add 10% for sub mountainous region										0.33
		Labour for	1	sqm								3.67
		Cost for	1	sqm								68.70

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.31	d	Crack Prevention Courses (Bitumen Impregnated Geotextile)								
		Laying of a bitumen impregnated geotextile layer after cleaning the road surface, laid over a tack coat of paving grade bitumen VG-10 @ 1.05kg per sqm complete as per technical clause 522 & 703 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Bitumen VG-10 at site of work @ 1.05kg per sqm		tonne	0.00105	33250.01	34.91			
(ii)		Geotextile conforming to requirement of clause 703.3 of MORT&H specifications including 10% overlaps at site of work		sqm	1.10	25.59	28.15			
		Total - I					63.06			
		Add contractor's profit @ 10% i.e. on Rs. 63.06					6.31			
		Add Labour cess @ 1% i.e. on Rs. 69.37					0.69			
		Cost for	1	sqm			70.06			
		Cost for	1	sqm			70.06	70.06		70.06
II		Labour								
		Taking output	3500	sqm						
(i)		Mate		Day	0.56	151.44	84.81			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	12.00	143.81	1725.72			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	2.00	164.69	329.38			
		Machinery								
(iii)		Mechanical Broom		hour	2.80	345.00	966.00			
(iv)		Air Compressor 250cfm		hour	2.80	309.00	865.20			
(v)		Bitumen pressure distributor		hour	2.00	1038.00	2076.00			
(v)		Pneumatic tyred roller		hour	2.00	1203.00	2406.00			
		Total - II					8453.11			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 8453.11					126.80			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 8579.91				1844.68				
		Add Labour cess @ 1% i.e. on Rs. 10424.59				104.25				
		Labour for 3500 sqm				10528.84				
		Labour for 1 sqm				3.01	3.01		3.01	
		Cost for 1 sqm					73.07			
		Add 10% for sub mountainous region								0.30
		Labour for 1 sqm								3.31
		Cost for 1 sqm								73.37

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.32		Restoration of Rain Cuts								
		Restoration of rain cuts with good quality earth obtained from borrow pits including compensation of earth, carriage, loading, unloading, clearing the loose soil, benching for 300mm width, laying in 250mm thick layers and compacting with plate compactor to restore the original alignment, levels and slopes as per technical clause 3002 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		Soil at site of work taking 75% fresh material and 25% retrieved material from site		Cum	0.75	111.47	83.60			
		Total - I					83.60			
		Add contractor's profit @ 10% i.e. on Rs. 83.6					8.36			
		Add Labour cess @ 1% i.e. on Rs. 91.96					0.92			
		Cost for	1	Cum.			92.88			
		Cost for	1	Cum.			92.88			92.88
II		Labour								
		Taking output	10	Cum.						
(i)		Mate		Day	0.08	151.44	12.12			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	2.00	143.81	287.62			
		Machinery								
(iii)		Hydraulic Excavator 1 cum bucket capacity @60 cum per hour		hour	0.13	1260.00	163.80			
(iv)		Plate Compactor		hour	0.50	90.00	45.00			
		Total - II					508.54			
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 508.54					7.63			
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 516.17					110.98			
		Add Labour cess @ 1% i.e. on Rs. 627.15					6.27			
		Labour for	10	Cum.			633.42			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Labour for	1	Cum.				63.34	63.34		63.34	
		Cost for	1	Cum.					156.22			
		Add 10% for sub mountainous region										6.33
		Labour for	1	Cum.								69.67
		Cost for	1	Cum.								162.55

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.33		Patch Work with Close Graded Premix Surfacing/ Mixed Seal Surfacing 20mm thickness (Type B)								
		Providing and laying patch work with close-graded premix surfacing material of 20 mm thickness Type B using penetration grade bitumen VG-10 @ 1.9kg per sqm and crushed stone aggregates of specified grading after trimming the pot hole, removal of failed material, including mixing in a batch type hot mix plant, carriage of mixed material to site of work, laying by suitable means and rolling with a smooth wheeled roller to match the adjoining surface complete as per technical clause 512 of MORT&H specifications	10250	sqm						
I		Materials								
(i)		Bitumen VG-10 at HMP @ 19 kg per 10sqm including 5% wastage		tonne	20.449	33250.01	679929.45			
		Aggregates								
(ii)		Crushed stone aggregates 13.2mm to 0.09mm at HMP @0.27 cum per 10sqm including 5% wastage		Cum	290.588	461.32	134054.06			
		Total - I					813983.51			
		Add contractor's profit @ 10% i.e. on Rs. 813983.51					81398.35			
		Add Labour cess @ 1% i.e. on Rs. 895381.86					8953.82			
		Cost for	10250	sqm			904335.68			
		Cost for	1	sqm			88.23	88.23		88.23
II		Labour								
		Taking output	10250	sqm						
(i)		Mate		Day	1.50	151.44	227.16			
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller and road sweeper		Day	21.00	143.81	3020.01			
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels		Day	7.50	164.69	1235.18			
		Machinery								
(iv)		Batch mix HMP		hour	8.00	22650.00	181200.00			
(v)		Paver finisher hydrostatic with sensor control		hour	12.00	2587.50	31050.00			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vi)		Generator 250 KVA			hour	8.00	1687.50	13500.00				
(vii)		Front end loader 1cum bucket capacity			hour	8.00	780.00	6240.00				
(viii)		Smooth wheeled roller 8-10 tonne weight			hour	60.00	300.00	18000.00				
		Total - II						254472.35				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 254472.35						3817.09				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 258289.44						55532.23				
		Add Labour cess @ 1% i.e. on Rs. 313821.67						3138.22				
		Labour for	10250	sqm				316959.89				
		Labour for	1	sqm				30.92	30.92		30.92	
		Cost for	1	sqm					119.15			
		Add 10% for sub mountainous region										3.09
		Labour for	1	sqm								34.01
		Cost for	1	sqm								122.24

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.34		Patch Work with Bituminous Macadam 50mm to 75mm thickness (Grading II)								
		Providing and laying patch work with bituminous macadam 50mm to 75mm thick using crushed stone aggregates of specified grading premixed with bituminous binder VG-10 @ 3.4% in batch type hot mix plant, carriage of mixed material to site of work, laid after trimming the pot hole, removal of failed material, laying by suitable means and rolling with a smooth wheeled roller to match the adjoining surface complete as per technical clause 504 of MORT&H specifications	205	Cum						
I		Materials								
(i)		Bulk Bitumen VG-10 at HMP @ 3.4% including 5% wastage		tonne	16.101	33250.01	535358.41			
		Aggregates including 5% wastage								
		Net wt. of aggregates = 473.55-16.101= 457.449 tonne								
		Taking Density 1.50 tonne per cum								
		Volume of aggregates= 304.966 cum								
(ii)		25mm to 10mm at HMP @ 40%		Cum	121.986	427.40	52136.82			
(iii)		10mm to 5mm at HMP @ 40%		Cum	121.986	461.32	56274.58			
(iv)		5mm and below at HMP @ 20%		Cum	60.994	280.73	17122.85			
		Total - I					660892.66			
		Add contractor's profit @ 10% i.e. on Rs. 660892.66					66089.27			
		Add Labour cess @ 1% i.e. on Rs. 726981.93					7269.82			
		Cost for	205	Cum			734251.75			
		Cost for	1	Cum			3581.72	3581.72		3581.72
II		Labour								
		Taking output	205	Cum						
(i)		Mate		Day	1.50	151.44	227.16			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		Mazdoor Unskilled (Semi Skilled Lower) working with HMP, paver, roller and road sweeper	Day	21.00	143.81	3020.01				
(iii)		Mazdoor Skilled (Skilled Upper) for checking line & levels	Day	7.50	164.69	1235.18				
		Machinery								
(iv)		Batch mix HMP	hour	8.00	22650.00	181200.00				
(v)		Paver finisher hydrostatic with sensor control	hour	12.00	2587.50	31050.00				
(vi)		Generator 250 KVA	hour	8.00	1687.50	13500.00				
(vii)		Front end loader 1cum bucket capacity	hour	8.00	780.00	6240.00				
(viii)		Smooth wheeled roller 8-10 tonne weight	hour	60.00	300.00	18000.00				
		Total - II				254472.35				
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 254472.35				3817.09				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 258289.44				55532.23				
		Add Labour cess @ 1% i.e. on Rs. 313821.67				3138.22				
		Labour for 205 Cum				316959.89				
		Labour for 1 Cum				1546.15	1546.15		1546.15	
		Cost for 1 Cum					5127.87			
		Add 10% for sub mountainous region								154.62
		Labour for 1 Cum								1700.77
		Cost for 1 Cum								5282.49

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.35		Patch Work with Built-up-Spray Grout								
		Patch work with built-up-spray grout consisting of single layer construction of compacted crushed coarse aggregates with application of bituminous binder VG-10 @ 1.5kg per sqm after trimming the pot hole, removal of failed material, and with key aggregates placed on top, rolling with a smooth wheeled roller to match the adjoining surface complete as per technical clause 506 of MORT&H specifications	225	Cum						
I		Materials								
(i)		Bulk Bitumen VG-10 at site of work @ 1.5 kg per sqm including 5% wastage	tonne	4.725	33250.01	157106.30				
		Aggregates including 5% wastage								
(ii)		Carse aggregate passing 53mm and retained on 2.8mm sieve at site of work @0.5cum per 10 sqm	Cum	157.50	425.22	66972.15				
(iii)		Key aggregates passing 22.4mm and retained on 2.8mm sieve at site of work @ 0.13 cum per 10 sqm	Cum	40.95	435.24	17823.08				
		Total - I				241901.53				
		Add contractor's profit @ 10% i.e. on Rs. 241901.53				24190.15				
		Add Labour cess @ 1% i.e. on Rs. 266091.68				2660.92				
		Cost for	225	Cum		268752.60				
		Cost for	1	Cum		1194.46	1194.46			1194.46
II		Labour								
		Taking output	225	cum						
(i)		Mate	Day	31.50	151.44	4770.36				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	565.50	143.81	81324.56				
(iii)		Mazdoor Skilled (Skilled Upper)	Day	70.50	164.69	11610.65				
		Machinery								
(iv)		Bitumen pressure distributor	hour	5.15	1038.00	5345.70				
(v)		Smooth 3 wheeled steel Roller	hour	33.75	300.00	10125.00				
		Total - II				113176.27				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P etc. @ 1.5% i.e. on Rs. 113176.27				1697.64				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 114873.91				24697.89				
		Add Labour cess @ 1% i.e. on Rs. 139571.8				1395.72				
		Labour for 225 cum				140967.52				
		Labour for 1 cum				626.52	626.52		626.52	
		Cost for 1 cum					1820.98			
		Add 10% for sub mountainous region								62.65
		Labour for 1 cum								689.17
		Cost for 1 cum								1883.63

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.36		Patch Work with Water Bound Macadam Grading III								
		Providing and laying patch work with stone aggregates of Grading III laid to water bound macadam specification after trimming the pot hole, removal of failed material, hand packing, applying and brooming requisite type of screening/ binding materials to fill up the interstices of coarse aggregate, watering and rolling with smooth wheeled roller 8-10 tonnes to match the adjoining surface complete as per technical clause 404 of MORT&H specifications	1	Cum.						
I		Materials								
(i)		53 mm to 22.4 mm Grading III Material at site of work including 5% wastage		Cum	1.40	471.44	660.02			
(ii)		11.2mm Screening Material at site of work including 5% wastage		Cum	0.27	461.32	124.56			
(iii)		Binding Material at site of work		Cum	0.09	111.47	10.03			
		Total - I					794.61			
		Add contractor's profit @ 10% i.e. on Rs. 794.61					79.46			
		Add Labour cess @ 1% i.e. on Rs. 874.07					8.74			
		Cost for	1	Cum.			882.81			
		Cost for	1	Cum.			882.81			882.81
II		Labour								
		Taking output	360	Cum.						
(i)		Mate		Day	16.50	151.44	2498.76			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	412.50	143.81	59321.63			
(iii)		Mazdoor Skilled (Skilled Upper)		Day	3.00	164.69	494.07			
		Machinery								
(iv)		Smooth 3 wheeled steel Roller		hour	67.50	300.00	20250.00			
(v)		Water tanker 6 KL capacity		hour	36.00	250.00	9000.00			
		Total - II					91564.46			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 91564.46				1831.29				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 93395.75				20080.09				
		Add Labour cess @ 1% i.e. on Rs. 113475.84				1134.76				
		Labour for 360 Cum.				114610.60				
		Labour for 1 Cum.				318.36	318.36		318.36	
		Cost for 1 Cum.					1201.17			
		Add 10% for sub mountainous region								31.84
		Labour for 1 Cum.								350.20
		Cost for 1 Cum.								1233.01

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.37		Ordinary Kilometre Stone for Plan Roads								
a		Reinforced cement concrete M-15 grade ordinary kilometre stone of standard design as per IRC 8-1980 fixing in position including painting and printing etc. complete as per technical clause 804 of MORT&H specifications	1	nos.						
I		Materials (For precasting and fixing)								
(i)		RCC M-15 for precasting km stone as per CSR Chapter 10								
		Rectangular portion = $1 \times 0.35 \times 0.25 \times 0.935 = 0.0818$ cum								
		Top Round portion = $1 \times 0.50 \times 3.142 \times 0.175 \times 0.175 \times 0.25 = 0.0120$ cum								
		Total = 0.0938 cum		cum	0.0938	3198.40	299.82			
(ii)		CTD bars for RCC M-15 for precasting km stone as per CSR Chapter 18								
		0.0938cum @ 90kg per cum = 8.442 kg or 0.084 qtl		qtl	0.0840	5264.97	442.26			
(iii)		Shuttering for RCC M-15 for precasting km stone as per CSR Chapter 9								
		Rectangular portion								
		$2 \times 0.35 \times 0.935 = 0.6545$ sqm								
		$2 \times 0.25 \times 0.935 = 0.4675$ sqm								
		$1 \times 0.35 \times 0.25 = 0.0875$ sqm								
		Top Round portion = $1 \times 0.50 \times 3.142 \times 0.175 \times 0.25 = 0.1375$ sqm								
		Total = 1.347 sqm		sqm	1.347	397.81	535.85			
(iv)		10mm thick cement plaster 1:3 for making bottom border as per CSR Chapter 15								
		$2 \times 0.35 \times 0.10 = 0.070$ sqm								
		$2 \times 0.25 \times 0.10 = 0.050$ sqm								
		Total = 0.12 sqm		sqm	0.12	74.16	8.90			
(v)		Earthwork in excavation for fixing km stone as per CSR Chapter 6								
		$1 \times 0.65 \times 0.55 \times 0.60 = 0.2145$ cum		cum	0.2145	66.28	14.22			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(vi)		CC 1:4:8 for fixing km stone as per CSR Chapter 10										
		1x0.65x0.55x0.60 = 0.2145cum										
		Deduction = 1x0.35x0.25x0.45 = 0.0394cum										
		Net Total = 0.1751cum			cum	0.1751	1957.23	342.71				
(vii)		Painting new concrete surface of km stone as per CSR Chapter 16										
		Rectangular portion										
		2x0.35x0.485 = 0.3395 sqm										
		2x0.25x0.485 = 0.2425 sqm										
		Top Round portion										
		2x0.50x3.142x0.175x0.175 = 0.0962 sqm										
		1x0.50x2x3.142x0.175x0.25 = 0.1375 sqm										
		Total = 0.8157 sqm			sqm	0.8157	134.45	109.67				
(viii)		Painting new letters on km stone as per CSR Chapter 16										
		Front and Back Side										
		Destination = 2 x 8 letters x 8cm = 128.00 cm										
		Distance = 2 x 2 letters x 13 = 52.00 cm										
		Route Number = 2 x 6 letters x 10 = 120.00 cm										
		Side = 1 x 2 letters x 13 = 26.00 cm										
		Total = 326.00 cm			cm	326.00	1.21	394.46				
		Cost for 1 nos.						2147.89				
		Cost for 1 nos.						2147.89	2147.89			2147.89
II		Labour (For transportation and fixing)										
		Taking output 14 no.										
(i)		Mate			Day	0.32	151.44	48.46				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	7.00	143.81	1006.67				
(iii)		Mason 1st class			Day	1.00	223.36	223.36				
		Machinery										
(iv)		Tractor Trolly			hour	6.00	250.00	1500.00				
		Total - II						2778.49				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2778.49						138.92				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2917.41						627.24				
		Add Labour cess @ 1% i.e. on Rs. 3544.65						35.45				
		Labour for 14 no.						3580.10				
		Labour for 1 no.						255.72	255.72		255.72	
		Cost for 1 no.							2403.61			
		Add 10% for sub mountainous region										25.57
		Labour for 1 no.										281.29
		Cost for 1 no.										2429.18

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.37 b		5th Kilometre Stone for Plan Roads										
		Reinforced cement concrete M-15 grade 5th kilometre stone of standard design as per IRC 8-1980 fixing in position including painting and printing etc. complete as per technical clause 804 of MORT&H specifications	1	nos.								
I		Materials (For precasting and fixing)										
(i)		RCC M-15 for precasting 5th km stone as per CSR Chapter 10										
		Rectangular portion = $1 \times 0.50 \times 0.25 \times 1.275 = 0.1594$ cum										
		Top Round portion = $1 \times 0.50 \times 3.142 \times 0.25 \times 0.25 = 0.0245$ cum										
		Total = 0.1839 cum			cum	0.1839	3196.40	587.82				
(ii)		CTD bars for RCC M-15 for precasting 5th km stone as per CSR Chapter 18										
		0.1839cum @ 90kg per cum = 16.55 kg or 0.1655 qtl			qtl	0.1655	5264.97	871.35				
(iii)		Shuttering for RCC M-15 for precasting 5th km stone as per CSR Chapter 9										
		Rectangular portion										
		$2 \times 0.50 \times 1.275 = 1.275$ sqm										
		$2 \times 0.25 \times 1.275 = 0.6375$ sqm										
		$1 \times 0.50 \times 0.25 = 0.125$ sqm										
		Top Round portion = $1 \times 0.50 \times 2 \times 3.142 \times 0.25 \times 0.25 = 0.1964$ sqm										
		Total = 2.234 sqm			sqm	2.234	397.81	888.71				
(iv)		10mm thick cement plaster 1:3 for making bottom border as per CSR Chapter 15										
		$2 \times 0.50 \times 0.130 = 0.130$ sqm										
		$2 \times 0.25 \times 0.130 = 0.065$ sqm										
		Total = 0.195 sqm			sqm	0.195	74.16	14.46				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(v)		Earthwork in excavation for fixing 5th km stone as per CSR Chapter 6								
		$1 \times 0.80 \times 0.55 \times 0.60 = 0.2640 \text{ cum}$	cum	0.2640	65.28	17.50				
(vi)		CC 1:4:8 for fixing 5th km stone as per CSR Chapter 10								
		$1 \times 0.80 \times 0.55 \times 0.60 = 0.2145 \text{ cum}$								
		Deduction = $1 \times 0.50 \times 0.25 \times 0.45 = 0.0562 \text{ cum}$								
		Net Total = 0.1583 cum	cum	0.1583	1957.23	309.83				
(vii)		Painting new concrete surface of 5th km stone as per CSR Chapter 16								
		Rectangular portion								
		$2 \times 0.50 \times 0.825 = 0.8250 \text{ sqm}$								
		$2 \times 0.25 \times 0.825 = 0.4125 \text{ sqm}$								
		Top Round portion								
		$2 \times 0.50 \times 3.142 \times 0.25 \times 0.25 = 0.1964 \text{ sqm}$								
		$1 \times 0.50 \times 2 \times 3.142 \times 0.25 \times 0.25 = 0.1964 \text{ sqm}$								
		Total = 1.6303 sqm	sqm	1.6303	134.45	219.19				
(viii)		Painting new letters on 5th km stone as per CSR Chapter 16								
		Front and Back Side								
		Destination = $2 \times 2 \times 10 \text{ letters} \times 8 \text{ cm} = 320.00 \text{ cm}$								
		Distance = $2 \times 2 \times 2 \text{ letters} \times 13 = 104.00 \text{ cm}$								
		Route Number = $2 \times 6 \text{ letters} \times 10 = 120.00 \text{ cm}$								
		Side = $1 \times 2 \text{ letters} \times 13 = 26.00 \text{ cm}$								
		Total = 570.00 cm	cm	570.00	1.21	689.70				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.				3598.56				
		Cost for 1 nos.				3598.56	3598.56			3598.56
II		Labour (For transportation and fixing)								
		Taking output 6 no.								
(i)		Mate	Day	0.26	151.44	39.37				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	6.00	143.81	862.86				
(iii)		Mason 1st class	Day	0.60	223.36	134.02				
		Machinery								
(iv)		Tractor Trolly	hour	6.00	250.00	1500.00				
		Total - II				2536.25				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2536.25				126.81				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2663.06				572.56				
		Add Labour cess @ 1% i.e. on Rs. 3235.62				32.36				
		Labour for 6 no.				3267.98				
		Labour for 1 no.				544.66	544.66		544.66	
		Cost for 1 no.					4143.22			
		Add 10% for sub mountainous region								54.47
		Labour for 1 no.								599.13
		Cost for 1 no.								4197.69

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.37	c	Kilometre Stone for Village Roads										
		Reinforced cement concrete M-15 grade ordinary kilometre stone of standard design for village roads as per IRC 8-1980 fixing in position including painting and printing etc. complete as per technical clause 804 of MORT&H specifications	1	nos.								
I		Materials (For precasting and fixing)										
(i)		RCC M-15 for precasting km stone as per CSR Chapter 10										
		1x0.35x0.18x0.935 = 0.0589 cum			cum	0.0589	3196.40	188.27				
(ii)		CTD bars for RCC M-15 for precasting km stone as per CSR Chapter 18										
		0.0589cum @ 90kg per cum = 5.301 kg or 0.0530 qtl			qtl	0.0530	5204.97	279.04				
(iii)		Shuttering for RCC M-15 for precasting km stone as per CSR Chapter 9										
		2x0.35x0.935 = 0.6545 sqm										
		2x0.18x0.935 = 0.3366 sqm										
		2x0.35x0.18 = 0.1260 sqm										
		Total = 1.117 sqm			sqm	1.117	397.81	444.35				
(iv)		10mm thick cement plaster 1:3 for making bottom border as per CSR Chapter 15										
		2x0.35x0.10 = 0.070 sqm										
		2x0.18x0.10 = 0.036 sqm										
		Total = 0.106 sqm			sqm	0.106	74.16	7.86				
(v)		Earthwork in excavation for fixing km stone as per CSR Chapter 6										
		1x0.65x0.48x0.60 = 0.1872 cum			cum	0.1872	66.28	12.41				
(vi)		CC 1:4:8 for fixing km stone as per CSR Chapter 10										
		1x0.65x0.48x0.60 = 0.1872 cum										
		Deduction = 1x0.35x0.18x0.45 = 0.0284 cum										

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Net Total = 0.1588 cum	cum	0.1588	1957.23	310.81				
(vii)		Painting new concrete surface of km stone as per CSR Chapter 16								
		2x0.35x0.485 = 0.3395 sqm								
		2x0.18x0.485 = 0.1746 sqm								
		1x0.35x0.18 = 0.063 sqm								
		Total = 0.5771 sqm	sqm	0.5771	134.45	77.59				
(viii)		Painting new letters on km stone as per CSR Chapter 16								
		Front and Back Side								
		Destination = 2 x 8 letters x 8cm = 128.00 cm								
		Distance = 2 x 2 letters x 13 = 52.00 cm								
		Side = 1 x 2 letters x 13 = 26.00 cm								
		Total = 206.00 cm	cm	206.00	1.21	249.26				
		Cost for 1 nos.				1569.59				
		Cost for 1 nos.				1569.59	1569.59			1569.59
II		Labour (For transportation and fixing)								
		Taking output 14 no.								
(i)		Mate	Day	0.32	151.44	48.46				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	5.00	143.81	719.05				
(iii)		Mason 1st class	Day	1.00	223.36	223.36				
		Machinery								
(iv)		Tractor Trolly	hour	6.00	250.00	1500.00				
		Total - II				2490.87				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2490.87				124.54				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2615.41				562.31				
		Add Labour cess @ 1% i.e. on Rs. 3177.72				31.78				
		Labour for 14 no.				3209.50				
		Labour for 1 no.				229.25	229.25		229.25	
		Cost for 1 no.					1798.84			
		Add 10% for sub mountainous region								22.93
		Labour for 1 no.								252.18
		Cost for 1 no.								1821.77

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.38		200 metre Stone										
		Reinforced cement concrete M-15 grade 200 metre stone of standard design as per IRC 26-1967 fixing in position including painting and printing etc. complete as per technical clause 804 of MORT&H specifications	1	nos.								
I		Materials (For precasting and fixing)										
(i)		RCC M-15 for precasting 200 metre stone as per CSR Chapter 10										
		1x0.15x0.10x0.65 = 0.0098 cum			cum	0.0098	3198.40	31.32				
(ii)		CTD bars for RCC M-15 for precasting 200 metre stone as per CSR Chapter 18										
		0.0098cum @ 90kg per cum = 0.882 kg or 0.0088 qtl			qtl	0.0088	5264.97	46.33				
(iii)		Shuttering for RCC M-15 for precasting 200 metre stone as per CSR Chapter 9										
		2x0.15x0.65 = 0.195 sqm										
		2x0.10x0.65 = 0.130 sqm										
		2x0.15x0.10 = 0.030 sqm										
		Total = 0.355 sqm			sqm	0.355	397.81	141.22				
(iv)		Earthwork in excavation for fixing 200 metre stone as per CSR Chapter 6										
		1x0.35x0.30x0.40 = 0.042 cum			cum	0.0420	66.28	2.78				
(v)		CC 1:4:8 for fixing 200 metre stone as per CSR Chapter 10										
		1x0.35x0.30x0.40 = 0.042 cum										
		Deduction = 1x0.15x0.10x0.30 = 0.0045 cum										
		Net Total = 0.0375 cum			cum	0.0375	1957.23	73.40				
(vi)		Painting new concrete surface of 200 metre stone as per CSR Chapter 16										
		2x0.15x0.35 = 0.105 sqm										
		2x0.10x0.35 = 0.070 sqm										
		1x0.15x0.10 = 0.015 sqm										

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total = 0.190 sqm			sqm	0.190	134.45	25.55				
(vii)		Painting new letters on 200 metre stone as per CSR Chapter 16										
		Front and Back Side										
		Distance = 2 x 1 letters x 8 = 16.00 cm			cm	16.00	1.21	19.36				
		Cost for 1 nos.	1	nos.				339.96				
		Cost for 1 nos.	1	nos.				339.96	339.96			339.96
II		Labour (For transportation and fixing)										
		Taking output	33	no.								
(i)		Mate			Day	0.34	151.44	51.49				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	7.00	143.81	1006.67				
(iii)		Mason 1st class			Day	1.50	223.36	335.04				
		Machinery										
(iv)		Tractor Trolly			hour	6.00	250.00	1500.00				
		Total - II						2893.20				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2893.2						144.66				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3037.86						653.14				
		Add Labour cess @ 1% i.e. on Rs. 3691						36.91				
		Labour for 33 no.	33	no.				3727.91				
		Labour for 1 no.	1	no.				112.97	112.97		112.97	
		Cost for 1 no.	1	no.					452.93			
		Add 10% for sub mountainous region										11.30
		Labour for 1 no.	1	no.								124.27
		Cost for 1 no.	1	no.								464.23

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.39		Boundary Pillars								
		Reinforced cement concrete M-15 grade boundary pillars of standard design as per IRC 25-1967 fixing in position including painting and printing etc. complete as per technical clause 806 of MORT&H specifications	1	nos.						
I		Materials (For precasting and fixing)								
(i)		RCC M-15 for precasting boundary pillars as per CSR Chapter 10								
		Bottom dia of Boundary Pillar = 200mm								
		Top dia of Boundary Pillar = 150mm								
		Average dia of Boundary Pillar = 175mm								
		1x0.25x3.142x0.175x0.175x0.90 = 0.0217 cum		cum	0.0217	3198.40	69.36			
(ii)		CTD bars for RCC M-15 for precasting boundary pillar as per CSR Chapter 18								
		0.0217cum @ 90kg per cum = 1.953 kg or 0.0195 qtl		qtl	0.0195	5284.97	102.67			
(iii)		Shuttering for RCC M-15 for precasting boundary pillar as per CSR Chapter 9								
		1x3.142x0.175x0.90 = 0.4949 sqm								
		1x0.25x3.142x0.20x0.20 = 0.0314 sqm								
		1x0.25x3.142x0.15x0.15 = 0.0177 sqm								
		Total = 0.544 sqm		sqm	0.544	307.81	216.41			
(iv)		Earthwork in excavation for fixing boundary pillar as per CSR Chapter 6								
		1x0.50x0.50x0.75 = 0.1875 cum		cum	0.1875	66.28	12.43			
(v)		CC 1:4:8 for fixing boundary pillar as per CSR Chapter 10								
		1x0.50x0.50x0.75 = 0.1875 cum								
		Deduction = 1x0.25x3.142x0.175x0.175x0.60 = 0.0144 cum								
		Net Total = 0.1731 cum		cum	0.1731	1957.23	338.80			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vi)		Painting new concrete surface of boundary pillar as per CSR Chapter 16								
		1x3.142x0.175x0.30 = 0.165 sqm								
		1x0.25x3.142x0.15x0.15 = 0.0177 sqm								
		Total = 0.1827 sqm	sqm	0.1827	134.45	24.56				
(vii)		Painting new letters on boundary pillar as per CSR Chapter 16								
		1 x 3 letters x 8 = 24.00 cm	cm	24.00	1.21	29.04				
		Cost for 1 nos.				793.27				
		Cost for 1 nos.				793.27	793.27			793.27
II		Labour (For transportation and fixing)								
		Taking output		57	no.					
(i)		Mate	Day	0.57	151.44	86.32				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	14.25	143.81	2049.29				
		Machinery								
(iv)		Tractor Trolly	hour	6.00	250.00	1500.00				
		Total - II				3635.61				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 3635.61				181.78				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3817.39				820.74				
		Add Labour cess @ 1% i.e. on Rs. 4638.13				46.38				
		Labour for 57 no.				4684.51				
		Labour for 1 no.				82.18	82.18	82.18		
		Cost for 1 no.					875.45			
		Add 10% for sub mountainous region								8.22
		Labour for 1 no.								90.40
		Cost for 1 no.								883.67

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.40		Village Board								
		Reinforced cement concrete M-15 grade village board of standard design fixing in position including painting and printing etc. complete as per PWD specifications	1	nos.						
I		Materials (For precasting and fixing)								
(i)		RCC M-15 for precasting village board as per CSR Chapter 10								
		1x0.90x1.35x0.075 = 0.0911 cum								
		Deduction = 2x0.30x0.10x0.075 = 0.0045 cum								
		Net Total = 0.0866 cum		cum	0.0866	3198.40	276.81			
(ii)		CTD bars for RCC M-15 for precasting village board as per CSR Chapter 18								
		0.0866cum @ 90kg per cum = 7.794 kg or 0.078 qtl		qtl	0.078	5204.97	410.67			
(iii)		Shuttering for RCC M-15 for precasting village board as per CSR Chapter 9								
		2x0.90x1.35 = 2.43 sqm								
		2x0.90x0.075 = 0.135 sqm								
		2x1.35x0.075 = 0.203 sqm								
		Deduction = 2x2x0.30x0.10 = 0.12 sqm								
		Total = 2.648 sqm		sqm	2.648	397.81	1053.40			
(iv)		Earthwork in excavation for fixing village board as per CSR Chapter 6								
		1x1.65x0.375x0.60 = 0.3712 cum		cum	0.3712	65.28	24.60			
(v)		CC 1:4:8 for fixing km stone as per CSR Chapter 10								
		1x1.65x0.375x0.60 = 0.3712 cum								
		Deduction = 1x0.90x0.45x0.075 = 0.0304 cum								
		Net Total = 0.3408 cum		cum	0.3408	1957.23	667.02			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vi)		Painting new concrete surface of village board as per CSR Chapter 16								
		2x0.90x0.90 = 1.62 sqm								
		1x0.90x0.075 = 0.0675 sqm								
		2x0.90x0.075 = 0.135 sqm								
		Deduction = 2x2x0.30x0.10 = 0.12 sqm								
		Total = 1.7025 sqm	sqm	1.7025	134.45	228.90				
(vii)		Painting new letters on village board as per CSR Chapter 16								
		Front and Back Side								
		Destination & Distance = 2 x 2 x 8 letters x 13cm = 416.00 cm								
		Department name = 2 x 8 letters x 8cm = 128.00 cm								
		Total = 544.00 cm	cm	544.00	1.21	658.24				
		Cost for 1 nos.				3319.64				
		Cost for 1 nos.				3319.64	3319.64			3319.64
II		Labour (For transportation and fixing)								
		Taking output 14 no.								
(i)		Mate	Day	0.32	151.44	48.46				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	7.00	143.81	1006.67				
(iii)		Mason 1st class	Day	1.00	223.36	223.36				
		Machinery								
(iv)		Tractor Trolly	hour	6.00	250.00	1500.00				
		Total - II				2778.49				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2778.49				138.92				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2917.41				627.24				
		Add Labour cess @ 1% i.e. on Rs. 3544.65				35.45				
		Labour for 14 no.				3580.10				
		Labour for 1 no.				255.72	255.72		255.72	
		Cost for 1 no.					3575.36			
		Add 10% for sub mountainous region								25.57
		Labour for 1 no.								281.29
		Cost for 1 no.								3600.93

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.41		Precast Cement Concrete Kerb										
		Plain cement concrete M-20 grade precast kerb 250mm high with bottom width 165mm and top width 115mm fixed in position on earth base including carriage to site of work complete as per technical clause 408 of MORT&H specifications	1.018	mtr								
I		Materials (For precasting and fixing)										
(i)		RCC M-20 for precasting kerb as per CSR Chapter 10										
		Average thickness of kerb = 140mm										
		1.00x0.14x0.25 = 0.035 cum			cum	0.035	3527.85	123.47				
(ii)		Shuttering for RCC M-20 for precasting kerb as per CSR Chapter 9										
		2x1.00x0.25 = 0.50 sqm										
		2x1.00x0.14 = 0.28 sqm										
		2x0.14x0.25 = 0.07 sqm										
		Total = 0.85 sqm			sqm	0.850	397.81	338.14				
(iii)		6mm thick cement plaster 1:3 for jointing kerb as per CSR Chapter 15										
		3x0.14x0.25 = 0.105 sqm			sqm	0.105	61.49	6.46				
		Cost for	1.018	mtr				468.07				
		Cost for	1	mtr				459.79	459.79			459.79
II		Labour (For transportation and fixing)										
		Taking output	100	mtr								
(i)		Mate			Day	0.50	151.44	75.72				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	10.00	143.81	1438.10				
(iii)		Mason 1st class			Day	2.00	223.36	446.72				
		Machinery										

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iv)		Tractor Trolly			hour	6.00	250.00	1500.00				
		Total - II						3460.54				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 3460.54						173.03				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3633.57						781.22				
		Add Labour cess @ 1% i.e. on Rs. 4414.79						44.15				
		Labour for 100 mtr	100	mtr				4458.94				
		Labour for 1 mtr	1	mtr				44.59	44.59	44.59		
		Cost for 1 mtr	1	mtr					504.38			
		Add 10% for sub mountainous region										4.46
		Labour for 1 mtr	1	mtr								49.05
		Cost for 1 mtr	1	mtr								508.84

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.42		Precast Cement Concrete Channel										
		Plain cement concrete M-20 grade precast channel 300mm wide and 75mm thick fixed in position on earth base including carriage to site of work complete as per technical clause 408 of MORT&H specifications	1.018	mtr								
I		Materials (For precasting and fixing)										
(i)		RCC M-20 for precasting channel as per CSR Chapter 10										
		1.00x0.30x0.075 = 0.0225 cum			cum	0.0225	3527.85	79.38				
(ii)		Shuttering for RCC M-20 for precasting channel as per CSR Chapter 9										
		2x1.00x0.30 = 0.60 sqm										
		2x1.00x0.075 = 0.15 sqm										
		2x0.30x0.075 = 0.045 sqm										
		Total = 0.795 sqm			sqm	0.795	397.81	316.26				
(iii)		6mm thick cement plaster 1:3 for jointing channel as per CSR Chapter 15										
		3x0.30x0.075 = 0.0675 sqm			sqm	0.0675	61.49	4.15				
		Cost for	1.018	mtr				399.79				
		Cost for	1	mtr				392.72	392.72			392.72
II		Labour (For transportation and fixing)										
		Taking output	200	mtr								
(i)		Mate			Day	0.50	151.44	75.72				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	10.00	143.81	1438.10				
(iii)		Mason 1st class			Day	2.00	223.36	446.72				
		Machinery										
(iv)		Tractor Trolly			hour	6.00	250.00	1500.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						3460.54				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 3460.54						173.03				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3633.57						781.22				
		Add Labour cess @ 1% i.e. on Rs. 4414.79						44.15				
		Labour for	200	mtr				4458.94				
		Labour for	1	mtr				22.29	22.29		22.29	
		Cost for	1	mtr					415.01			
		Add 10% for sub mountainous region										2.23
		Labour for	1	mtr								24.52
		Cost for	1	mtr								417.24

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.43	a	1.2 Metre High G.I. Barbed Wire Fencing								
		1.2 metre high G.I. barbed wire fencing with 1.8 metre angle iron posts 40x40x6mm placed every 3 metres centre to centre 0.6 metre below ground level, every 15th post, end post, corner post suitably strutted and provided with 9 horizontal lines and two diagonals interwoven with horizontal wires fixed with GI staples, turn buckles etc. including foundation concrete 1:2:4 of size 0.30x0.30x0.75m for each post complete as per technical clause 807 of MORT&H specifications	30	mtr						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		12x0.30x0.30x0.75 = 0.81 cum		cum	0.81	66.28	53.69			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		12x0.30x0.30x0.75 = 0.81 cum		cum	0.81	2795.69	2264.51			
I b		Materials								
(i)		MS angle iron 40x40x6mm 23mtr length @ 3.5kg per mtr		qtl	0.805	3796.00	3055.78			
(ii)		GI barbed wire 335mtr length @ 9.38kg per 100mtr		kg	31.42	58.03	1823.30			
(iii)		GI staples for fixing		kg	1.00	79.13	79.13			
		Total - I					4958.21			
		Add contractor's profit @ 10% i.e. on Rs. 4958.21					495.82			
		Add Labour cess @ 1% i.e. on Rs. 5454.03					54.54			
		Cost for	30	mtr			7826.77			
		Cost for	1	mtr			260.89	260.89		260.89
II		Labour								
		Taking output	30	mtr						
(i)		Mate		Day	0.09	151.44	13.63			

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)			Day	0.25	223.36	55.84				
		Total - II						357.09				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 357.09						17.85				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 374.94						80.61				
		Add Labour cess @ 1% i.e. on Rs. 455.55						4.56				
		Labour for	30	mtr				460.11				
		Labour for	1	mtr				15.34	15.34		15.34	
		Cost for	1	mtr					276.23			
		Add 10% for sub mountainous region										1.53
		Labour for	1	mtr								16.87
		Cost for	1	mtr								277.76

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.43	b	1.8 Metre High G.I. Barbed Wire Fencing										
		1.8 metre high G.I. barbed wire fencing with 2.4 metre angle iron posts 50x50x6mm placed every 3 metres centre to centre 0.6 metre below ground level, every 15th post, end post, corner post suitably strutted and provided with 12 horizontal lines and two diagonals interwoven with horizontal wires fixed with GI staples, turn buckles etc. including foundation concrete 1:2:4 of size 0.30x0.30x0.75m for each post complete as per technical clause 807 of MORT&H specifications	30	mtr								
I a		Materials for fixing										
(i)		Earthwork in excavation as per CSR Chapter 6										
		12x0.30x0.30x0.75 = 0.81 cum			cum	0.81	66.28	53.69				
(ii)		CC 1:2:4 as per CSR Chapter 10										
		12x0.30x0.30x0.75 = 0.81 cum			cum	0.81	2795.69	2264.51				
I b		Materials										
(i)		MS angle iron 50x50x6mm 33.8mtr length @ 4.5kg per mtr			qtl	1.52	3796.00	5769.92				
(ii)		GI barbed wire 428mtr length @ 9.38kg per 100mtr			kg	40.15	58.03	2329.90				
(iii)		GI staples for fixing			kg	1.50	79.13	118.70				
		Total - I						8218.52				
		Add contractor's profit @ 10% i.e. on Rs. 8218.52						821.85				
		Add Labour cess @ 1% i.e. on Rs. 9040.37						90.40				
		Cost for	30	mtr				11448.98				
		Cost for	1	mtr				381.63	381.63			381.63
II		Labour										
		Taking output	30	mtr								
(i)		Mate			Day	0.12	151.44	18.17				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	2.50	143.81	359.53				
(iii)		Blacksmith (1st Class)			Day	0.40	223.36	89.34				
		Total - II						467.04				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 467.04						23.35				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 490.39						105.43				
		Add Labour cess @ 1% i.e. on Rs. 595.82						5.96				
		Labour for	30	mtr				601.78				
		Labour for	1	mtr				20.06	20.06		20.06	
		Cost for	1	mtr					401.69			
		Add 10% for sub mountainous region										2.01
		Labour for	1	mtr								22.07
		Cost for	1	mtr								403.70

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.44	a	Cautionary Sign Board 900x900x900mm Triangular								
		Cautionary sign board 900x900x900mm triangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.75m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	86.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.69	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.33 = 3.33mtr @ 5.30kg per mtr = 17.65 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		3x0.90 = 2.70mtr @ 1.10kg per mtr = 2.97 kg								
		Total = 22.74 kg								
		Add 5% wastage = 1.14 kg								
		Total = 23.88 kg or 0.239 qtl		qtl	0.239	3796.00	907.24			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		0.50x0.78x0.90 = 0.351 sqm								
		Add 5% wastage = 0.018 sqm								
		Total = 0.369 sqm	sqm	0.369	2000.00	738.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.50x0.78x0.90 = 0.351 sqm								
		Border								
		3x0.90x0.07 = 0.189 sqm								
		Cautionary sign								
		0.50x0.78x0.90x20% = 0.070 sqm								
		Total = 0.61 sqm								
		Add 5% wastage = 0.030 sqm								
		Total = 0.64 sqm	sqm	0.640	4500.00	2880.00				
(iv)		Stove enamel paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.33x4x0.065 = 0.866 sqm								
		Board Frame 25x25x3mm								
		3x0.90x4x0.025 = 0.27 sqm								
		Total = 1.136 sqm								
		Taking 0.145 litre per sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Qty of paint = 0.165 litre	ltr	0.165	188.48	31.10				
(v)		Red Oxide Primer of approved quality								
		Vertical Support 65x65x6mm								
		3.33x4x0.065 = 0.866 sqm								
		Board Frame 25x25x3mm								
		3x0.90x4x0.025 = 0.27 sqm								
		Total = 1.136 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.061 litre	ltr	0.061	102.94	6.28				
(vi)		Welding rod box	each	0.500	158.25	79.13				
		Total - I				4641.75				
		Add contractor's profit @ 10% i.e. on Rs. 4641.75				464.18				
		Add Labour cess @ 1% i.e. on Rs. 5105.93				51.06				
		Cost for 1 nos.				5506.14				
		Cost for 1 nos.				5506.14	5506.14			5506.14
II		Labour								
		Taking output 4 nos.								
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Machinery										
(v)		Tractor Trolly			Hour	2.00	250.00	500.00				
		Total - II						1121.12				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12						56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18						253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27						14.30				
		Labour for	4	nos.				1444.57				
		Labour for	1	nos.				361.14	361.14		361.14	
		Cost for	1	nos.					5867.28			
		Add 10% for sub mountainous region										36.11
		Labour for	1	nos.								397.25
		Cost for	1	nos.								5903.39

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.44	b	Cautionary Sign Board 600x600x600mm Triangular								
		Cautionary sign board 600x600x600mm triangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	66.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2798.69	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.07 = 3.07mtr @ 5.30kg per mtr = 16.27 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		3x0.60 = 1.80mtr @ 1.10kg per mtr = 1.98 kg								
		Total = 20.37 kg								
		Add 5% wastage = 1.02 kg								
		Total = 21.39 kg or 0.214 qtl		qtl	0.214	3796.00	812.34			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		0.50x0.52x0.60 = 0.156 sqm								
		Add 5% wastage = 0.008 sqm								
		Total = 0.164 sqm	sqm	0.164	2000.00	328.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.50x0.52x0.60 = 0.156 sqm								
		Border								
		3x0.60x0.045 = 0.081 sqm								
		Cautionary sign								
		0.50x0.52x0.60x20% = 0.031 sqm								
		Total = 0.268 sqm								
		Add 5% wastage = 0.013 sqm								
		Total = 0.281 sqm	sqm	0.281	4500.00	1264.50				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.07x4x0.065 = 0.798 sqm								
		Board Frame 25x25x3mm								
		3x0.60x4x0.025 = 0.18 sqm								
		Total = 0.978 sqm								
		Taking 0.145 litre per sqm								

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Qty of paint = 0.142 litre			ltr	0.142	188.48	26.76				
(v)		Red Oxide Primer of approved quality										
		Vertical Support 65x65x6mm										
		3.07x4x0.065 = 0.798 sqm										
		Board Frame 25x25x3mm										
		3x0.60x4x0.025 = 0.18 sqm										
		Total = 0.978 sqm										
		Taking 0.054 litre per sqm										
		Qty of primer = 0.053 litre			ltr	0.053	102.94	5.46				
(vi)		Welding rod box			each	0.500	158.25	79.13				
		Total - I						2516.19				
		Add contractor's profit @ 10% i.e. on Rs. 2516.19						251.62				
		Add Labour cess @ 1% i.e. on Rs. 2767.81						27.68				
		Cost for	1	nos.				3144.65				
		Cost for	1	nos.				3144.65	3144.65			3144.65
II		Labour										
		Taking output	4	nos.								
(i)		Mate			Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)			Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)			Day	0.50	190.00	95.00				
		Machinery										

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(v)		Tractor Trolly			Hour	2.00	250.00	500.00				
		Total - II						1121.12				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12						56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18						253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27						14.30				
		Labour for	4	nos.				1444.57				
		Labour for	1	nos.				361.14	361.14		361.14	
		Cost for	1	nos.					3505.79			
		Add 10% for sub mountainous region										36.11
		Labour for	1	nos.								397.25
		Cost for	1	nos.								3541.90

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.45	a	Mandatory Sign Board 900mm Circular or Octagonal								
		Mandatory sign board 900mm circular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	66.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.69	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.45 = 3.45mtr @ 5.30kg per mtr = 18.29 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		3.142x0.90 = 2.83mtr @ 1.10kg per mtr = 3.11 kg								
		Total = 23.52 kg								
		Add 5% wastage = 1.18 kg								
		Total = 24.70 kg or 0.247 qtl		qtl	0.247	3796.00	937.61			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.25x3.142x0.90x0.90 = 0.636 sqm								
		Add 5% wastage = 0.032 sqm								
		Total = 0.668 sqm	sqm	0.668	2000.00	1336.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.25x3.142x0.90x0.90 = 0.636 sqm								
		Border								
		3.142x0.90x0.075 = 0.212 sqm								
		Mandatory sign								
		0.25x3.142x0.90x0.90x20% = 0.127 sqm								
		Total = 0.975 sqm								
		Add 5% wastage = 0.049 sqm								
		Total = 1.024 sqm	sqm	1.024	4500.00	4608.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.45x4x0.065 = 0.897 sqm								
		Board Frame 25x25x3mm								
		3.142x0.90x4x0.025 = 0.283 sqm								
		Total = 1.18 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.171 litre	ltr	0.171	188.48	32.23				
(v)		Red Oxide Primer of approved quality								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Vertical Support 65x65x6mm								
		3.45x4x0.065 = 0.897 sqm								
		Board Frame 25x25x3mm								
		3.142x0.90x4x0.025 = 0.283 sqm								
		Total = 1.18 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.064 litre	ltr	0.064	102.94	6.59				
(vi)		Welding rod box	each	0.500	158.25	79.13				
		Total - I				6999.56				
		Add contractor's profit @ 10% i.e. on Rs. 6999.56				699.96				
		Add Labour cess @ 1% i.e. on Rs. 7699.52				77.00				
		Cost for 1 nos.				8125.67				
		Cost for 1 nos.				8125.67	8125.67			8125.67
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolly	Hour	2.00	250.00	500.00				
		Total - II				1121.12				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12						56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18						253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27						14.30				
		Labour for	4	nos.				1444.57				
		Labour for	1	nos.				361.14	361.14		361.14	
		Cost for	1	nos.					8486.81			
		Add 10% for sub mountainous region										36.11
		Labour for	1	nos.								397.25
		Cost for	1	nos.								8522.92

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.45	b	Mandatory Sign Board 600mm Circular or Octagonal								
		Mandatory sign board 600mm circular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	86.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.89	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.15 = 3.15mtr @ 5.30kg per mtr = 16.70 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		3.142x0.60 = 1.89mtr @ 1.10kg per mtr = 2.08 kg								
		Total = 20.90 kg								
		Add 5% wastage = 1.05 kg								
		Total = 21.95 kg or 0.220 qtl		qtl	0.220	3796.00	835.12			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.25x3.142x0.60x0.60 = 0.283 sqm								
		Add 5% wastage = 0.014 sqm								
		Total = 0.297 sqm	sqm	0.297	2000.00	594.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.25x3.142x0.60x0.60 = 0.283 sqm								
		Border								
		3.142x0.60x0.065 = 0.123 sqm								
		Mandatory sign								
		0.25x3.142x0.60x0.60x20% = 0.057 sqm								
		Total = 0.463 sqm								
		Add 5% wastage = 0.023 sqm								
		Total = 0.486 sqm	sqm	0.486	4500.00	2187.00				
(iv)		Stove Enamel paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.15x4x0.065 = 0.819 sqm								
		Board Frame 25x25x3mm								
		3.142x0.60x4x0.025 = 0.189 sqm								
		Total = 1.008 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.146 litre	ltr	0.146	188.48	27.52				
(v)		Red Oxide Primer of approved quality								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Vertical Support 65x65x6mm								
		3.15x4x0.065 = 0.819 sqm								
		Board Frame 25x25x3mm								
		3.142x0.60x4x0.025 = 0.189 sqm								
		Total = 1.008 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.054 litre	ltr	0.054	102.94	5.56				
(vi)		Welding rod box	each	0.500	158.25	79.13				
		Total - I				3728.33				
		Add contractor's profit @ 10% i.e. on Rs. 3728.33				372.83				
		Add Labour cess @ 1% i.e. on Rs. 4101.16				41.01				
		Cost for 1 nos.				4491.33				
		Cost for 1 nos.				4491.33	4491.33			4491.33
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolly	Hour	2.00	250.00	500.00				
		Total - II				1121.12				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12				56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18				253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27				14.30				
		Labour for 4 nos.				1444.57				
		Labour for 1 nos.				361.14	361.14		361.14	
		Cost for 1 nos.					4852.47			
		Add 10% for sub mountainous region								36.11
		Labour for 1 nos.								397.25
		Cost for 1 nos.								4888.58

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.46	a	Informatory Sign Board 800x600mm Rectangular								
		Informatory sign board 800x600mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	66.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.69	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.15 = 3.15mtr @ 5.30kg per mtr = 16.70 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		2x(0.80+0.60) = 2.80mtr @ 1.10kg per mtr = 3.08 kg								
		Total = 21.90 kg								
		Add 5% wastage = 1.10 kg								
		Total = 23.00 kg or 0.23 qtl		qtl	0.230	3796.00	873.08			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.80x0.60 = 0.48 sqm								
		Add 5% wastage = 0.024 sqm								
		Total = 0.504 sqm	sqm	0.504	2000.00	1008.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.80x0.60 = 0.48 sqm								
		Inner Base								
		0.40x0.40 = 0.16 sqm								
		Informatory sign								
		0.80x0.60x20% = 0.096 sqm								
		Total = 0.736 sqm								
		Add 5% wastage = 0.039 sqm								
		Total = 0.773 sqm	sqm	0.773	4500.00	3478.50				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.15x4x0.065 = 0.819 sqm								
		Board Frame 25x25x3mm								
		2x(0.80+0.60)x4x0.025 = 0.228 sqm								
		Total = 1.047 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.152 litre	ltr	0.152	188.48	28.65				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(v)		Red Oxide Primer of approved quality								
		Vertical Support 65x65x6mm								
		3.15x4x0.065 = 0.819 sqm								
		Board Frame 25x25x3mm								
		2x(0.80+0.60)x4x0.025 = 0.228 sqm								
		Total = 1.047 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.057 litre	ltr	0.057	102.94	5.87				
(vi)		Welding rod box	each	0.500	158.25	79.13				
		Total - I				5473.23				
		Add contractor's profit @ 10% i.e. on Rs. 5473.23				547.32				
		Add Labour cess @ 1% i.e. on Rs. 6020.55				60.21				
		Cost for 1 nos.				6429.92				
		Cost for 1 nos.				6429.92	6429.92			6429.92
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolly	Hour	2.00	250.00	500.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Total - II						1121.12				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12						56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18						253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27						14.30				
		Labour for	4	nos.				1444.57				
		Labour for	1	nos.				361.14	361.14		361.14	
		Cost for	1	nos.					6791.06			
		Add 10% for sub mountainous region										36.11
		Labour for	1	nos.								397.25
		Cost for	1	nos.								6827.17

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.46	b	Informatory Sign Board 600x450mm Rectangular								
		Informatory sign board 600x450mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	68.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.89	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.00 = 3.00mtr @ 5.30kg per mtr = 15.90 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		2x(0.60+0.45) = 2.10mtr @ 1.10kg per mtr = 2.31 kg								
		Total = 20.33 kg								
		Add 5% wastage = 1.02 kg								
		Total = 21.35 kg or 0.214 qtl		qtl	0.214	3796.00	812.34			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.60x0.45 = 0.27 sqm								
		Add 5% wastage = 0.014 sqm								
		Total = 0.284 sqm	sqm	0.284	2000.00	568.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.60x0.45 = 0.27 sqm								
		Inner Base								
		0.30x0.30 = 0.09 sqm								
		Informatory sign								
		0.60x0.45x20% = 0.054 sqm								
		Total = 0.414 sqm								
		Add 5% wastage = 0.021 sqm								
		Total = 0.435 sqm	sqm	0.435	4500.00	1957.50				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.00x4x0.065 = 0.78 sqm								
		Board Frame 25x25x3mm								
		2x(0.60+0.45)x4x0.025 = 0.21 sqm								
		Total = 0.99 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.144 litre	ltr	0.144	188.48	27.14				
(v)		Red Oxide Primer of approved quality								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Vertical Support 65x65x6mm								
		3.00x4x0.065 = 0.78 sqm								
		Board Frame 25x25x3mm								
		2x(0.60+0.45)x4x0.025 = 0.21 sqm								
		Total = 0.99 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.054 litre	ltr	0.054	102.94	5.56				
(vi)		Welding rod box	each	0.500	158.25	79.13				
		Total - I				3449.67				
		Add contractor's profit @ 10% i.e. on Rs. 3449.67				344.97				
		Add Labour cess @ 1% i.e. on Rs. 3794.64				37.95				
		Cost for 1 nos.				4181.74				
		Cost for 1 nos.				4181.74	4181.74			4181.74
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolly	Hour	2.00	250.00	500.00				
		Total - II				1121.12				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12				56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18				253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27				14.30				
		Labour for 4 nos.				1444.57				
		Labour for 1 nos.				361.14	361.14		361.14	
		Cost for 1 nos.					4542.88			
		Add 10% for sub mountainous region								36.11
		Labour for 1 nos.								397.25
		Cost for 1 nos.								4578.99

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.46	c	Informatory Sign Board 600x600mm Square								
		Informatory sign board 600x600mm square as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm without cost of definition plate firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	86.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.89	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x3.15 = 3.15mtr @ 5.30kg per mtr = 16.70 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		2x(0.60+0.60) = 2.40mtr @ 1.10kg per mtr = 2.64 kg								
		Total = 21.46 kg								
		Add 5% wastage = 1.07 kg								
		Total = 22.53 kg or 0.225 qtl		qtl	0.225	3796.00	854.10			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.60x0.60 = 0.36 sqm								
		Add 5% wastage = 0.018 sqm								
		Total = 0.378 sqm	sqm	0.378	2000.00	756.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.60x0.60 = 0.36 sqm								
		Inner Base								
		0.40x0.40 = 0.16 sqm								
		Informatory sign								
		0.60x0.60x20% = 0.072 sqm								
		Total = 0.592 sqm								
		Add 5% wastage = 0.030 sqm								
		Total = 0.622 sqm	sqm	0.622	4500.00	2799.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		3.15x4x0.065 = 0.819 sqm								
		Board Frame 25x25x3mm								
		2x(0.60+0.60)x4x0.025 = 0.24 sqm								
		Total = 1.059 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.154 litre	ltr	0.154	188.48	29.03				
(v)		Red Oxide Primer of approved quality								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Vertical Support 65x65x6mm								
		3.15x4x0.065 = 0.819 sqm								
		Board Frame 25x25x3mm								
		2x(0.60+0.60)x4x0.025 = 0.24 sqm								
		Total = 1.059 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.057 litre	ltr	0.057	102.94	5.87				
(vi)		Welding rod box	each	0.500	158.25	79.13				
		Total - I				4523.13				
		Add contractor's profit @ 10% i.e. on Rs. 4523.13				452.31				
		Add Labour cess @ 1% i.e. on Rs. 4975.44				49.75				
		Cost for 1 nos.				5374.36				
		Cost for 1 nos.				5374.36	5374.36			5374.36
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolley	Hour	2.00	250.00	500.00				
		Total - II				1121.12				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12				56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18				253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27				14.30				
		Labour for 4 nos.				1444.57				
		Labour for 1 nos.				361.14	361.14		361.14	
		Cost for 1 nos.					5735.50			
		Add 10% for sub mountainous region								36.11
		Labour for 1 nos.								397.25
		Cost for 1 nos.								5771.61

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.47		Place Identification Sign Board 900x600mm Rectangular								
		Place Identification sign board 900x600mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on two mild steel angle iron post 65x65x6mm firmly fixed to ground in foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x0.45x0.45x0.60 = 0.244 cum		cum	0.244	68.28	16.17			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		2x0.45x0.45x0.60 = 0.244 cum		cum	0.244	2795.89	682.15			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		2x3.15 = 6.30mtr @ 5.30kg per mtr = 33.39 kg								
		Vertical Support Base 65x65x6mm								
		2x2x0.20 = 0.80mtr @ 5.30kg per mtr = 4.24 kg								
		Board Frame 25x25x3mm								
		2x(0.90+0.60) = 3.00mtr @ 1.10kg per mtr = 3.30 kg								
		Total = 40.93 kg								
		Add 5% wastage = 2.05 kg								
		Total = 42.98 kg or 0.430 qtl		qtl	0.430	3796.00	1632.28			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.90x0.60 = 0.54 sqm								
		Add 5% wastage = 0.027 sqm								
		Total = 0.567 sqm	sqm	0.567	2000.00	1134.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.90x0.60 = 0.54 sqm								
		Border								
		2x(0.90+0.60)x0.075 = 0.225 sqm								
		Place Name								
		0.90x0.60x20% = 0.108 sqm								
		Total = 0.873 sqm								
		Add 5% wastage = 0.044 sqm								
		Total = 0.912 sqm	sqm	0.912	4500.00	4104.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		2x3.15x4x0.065 = 1.638 sqm								
		Board Frame 25x25x3mm								
		2x(0.90+0.60)x4x0.025 = 0.30 sqm								
		Total = 1.938 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.281 litre	ltr	0.281	188.48	52.96				
(v)		Red Oxide Primer of approved quality								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Vertical Support 65x65x6mm								
		2x3.15x4x0.065 = 1.638 sqm								
		Board Frame 25x25x3mm								
		2x(0.90+0.60)x4x0.025 = 0.30 sqm								
		Total = 1.938 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.105 litre	ltr	0.105	102.94	10.81				
(vi)		Welding rod box	each	1.000	158.25	158.25				
		Total - I				7092.30				
		Add contractor's profit @ 10% i.e. on Rs. 7092.3				709.23				
		Add Labour cess @ 1% i.e. on Rs. 7801.53				78.02				
		Cost for 1 nos.				8577.87				
		Cost for 1 nos.				8577.87	8577.87			8577.87
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolly	Hour	2.00	250.00	500.00				
		Total - II				1121.12				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12				56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18				253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27				14.30				
		Labour for 4 nos.				1444.57				
		Labour for 1 nos.				361.14	361.14		361.14	
		Cost for 1 nos.					8939.01			
		Add 10% for sub mountainous region								36.11
		Labour for 1 nos.								397.25
		Cost for 1 nos.								8975.12

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.48	a	Advance Direction Sign Board 900x900mm Square								
		Advance Direction sign board 900x900mm square as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on two mild steel angle iron post 65x65x6mm firmly fixed to ground in foundation concrete 1:2:4 of size 0.60x0.60x0.75m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	68.28	35.79			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	2795.89	1509.67			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		2x3.60 = 7.20mtr @ 5.30kg per mtr = 38.16 kg								
		Vertical Support Base 65x65x6mm								
		2x2x0.20 = 0.80mtr @ 5.30kg per mtr = 4.24 kg								
		Board Frame 25x25x3mm								
		2x(0.90+0.90) = 3.60mtr @ 1.10kg per mtr = 3.96 kg								
		Total = 46.36 kg								
		Add 5% wastage = 2.32 kg								
		Total = 48.68 kg or 0.487 qtl		qtl	0.487	3796.00	1848.65			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.90x0.90 = 0.81 sqm								
		Add 5% wastage = 0.041 sqm								
		Total = 0.851 sqm	sqm	0.851	2000.00	1702.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.90x0.90 = 0.81 sqm								
		Border								
		2x(0.90+0.90)x0.075 = 0.27 sqm								
		Place Name								
		0.90x0.90x20% = 0.162 sqm								
		Total = 1.242 sqm								
		Add 5% wastage = 0.062 sqm								
		Total = 1.304 sqm	sqm	1.304	4500.00	5868.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		2x3.60x4x0.065 = 1.872 sqm								
		Board Frame 25x25x3mm								
		2x(0.90+0.90)x4x0.025 = 0.36 sqm								
		Total = 2.232 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.324 litre	ltr	0.324	188.48	61.07				
(v)		Red Oxide Primer of approved quality								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Vertical Support 65x65x6mm								
		2x3.60x4x0.065 = 1.872 sqm								
		Board Frame 25x25x3mm								
		2x(0.90+0.90)x4x0.025 = 0.36 sqm								
		Total = 2.232 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.121 litre	ltr	0.121	102.94	12.46				
(vi)		Welding rod box	each	1.000	158.25	158.25				
		Total - I				9650.43				
		Add contractor's profit @ 10% i.e. on Rs. 9650.43				965.04				
		Add Labour cess @ 1% i.e. on Rs. 10615.47				106.15				
		Cost for 1 nos.				12267.09				
		Cost for 1 nos.				12267.09	12267.09			12267.09
II		Labour								
		Taking output		4 nos.						
(i)		Mate	Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)	Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)	Day	0.50	190.00	95.00				
		Machinery								
(v)		Tractor Trolly	Hour	2.00	250.00	500.00				
		Total - II				1121.12				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12						56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18						253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27						14.30				
		Labour for	4	nos.				1444.57				
		Labour for	1	nos.				361.14	361.14		361.14	
		Cost for	1	nos.					12628.23			
		Add 10% for sub mountainous region										36.11
		Labour for	1	nos.								397.25
		Cost for	1	nos.								12664.34

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.48	b	Advance Direction Sign Board 1200x900mm Rectangular								
		Advance Direction sign board 1200x900mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on two mild steel angle iron posts 65x65x6mm firmly fixed to ground in foundation concrete 1:2:4 of size 0.60x0.60x0.75m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	68.28	35.79			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	2795.89	1509.67			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		2x3.60 = 7.20mtr @ 5.30kg per mtr = 38.16 kg								
		Vertical Support Base 65x65x6mm								
		2x2x0.20 = 0.80mtr @ 5.30kg per mtr = 4.24 kg								
		Board Frame 25x25x3mm								
		2x1.20 = 2.40mtr @ 1.10kg per mtr = 2.64 kg								
		3x0.90 = 2.70mtr @ 1.10kg per mtr = 2.97 kg								
		Total = 48.01 kg								
		Add 5% wastage = 2.40 kg								
		Total = 50.41 kg or 0.504 qtl		qtl	0.504	3796.00	1913.18			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		1.20x0.90 = 1.08 sqm								
		Add 5% wastage = 0.054 sqm								
		Total = 1.134 sqm	sqm	1.134	2000.00	2268.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		1.20x0.90 = 1.08 sqm								
		Border								
		2x(1.20+0.90)x0.075 = 0.315 sqm								
		Place Name								
		1.20x0.90x20% = 0.216 sqm								
		Total = 1.611 sqm								
		Add 5% wastage = 0.081 sqm								
		Total = 1.692 sqm	sqm	1.692	4500.00	7614.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		2x3.60x4x0.065 = 1.872 sqm								
		Board Frame 25x25x3mm								
		2x1.20x4x0.025 = 0.24 sqm								
		3x0.90x4x0.025 = 0.27 sqm								
		Total = 2.382 sqm								
		Taking 0.145 litre per sqm								

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Qty of paint = 0.345 litre			ltr	0.345	188.48	65.03				
(v)		Red Oxide Primer of approved quality										
		Vertical Support 65x65x6mm										
		2x3.60x4x0.065 = 1.872 sqm										
		Board Frame 25x25x3mm										
		2x1.20x4x0.025 = 0.24 sqm										
		3x0.90x4x0.025 = 0.27 sqm										
		Total = 2.382 sqm										
		Taking 0.054 litre per sqm										
		Qty of primer = 0.129 litre			ltr	0.129	102.94	13.28				
(vi)		Welding rod box			each	1.000	158.25	158.25				
		Total - I						12031.74				
		Add contractor's profit @ 10% i.e. on Rs. 12031.74						1203.17				
		Add Labour cess @ 1% i.e. on Rs. 13234.91						132.35				
		Cost for 1 nos.						14912.72				
		Cost for 1 nos.						14912.72	14912.72			14912.72
II		Labour										
		Taking output 4 nos.										
(i)		Mate			Day	0.20	151.44	30.29				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	4.00	143.81	575.24				
(iii)		Blacksmith (1st Class)			Day	2.00	223.36	446.72				
(iv)		Painter (2nd Class)			Day	1.00	190.00	190.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Machinery										
(v)		Tractor Trolly			Hour	4.00	250.00	1000.00				
		Total - II						2242.25				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2242.25						112.11				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2354.36						506.19				
		Add Labour cess @ 1% i.e. on Rs. 2860.55						28.61				
		Labour for	4	nos.				2889.16				
		Labour for	1	nos.				722.29	722.29		722.29	
		Cost for	1	nos.					15635.01			
		Add 10% for sub mountainous region										72.23
		Labour for	1	nos.								794.52
		Cost for	1	nos.								15707.24

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.48	c	Advance Direction Sign Board 1200x1200mm Rectangular								
		Advance Direction sign board 1200x1200mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on two mild steel angle iron posts 65x65x6mm firmly fixed to ground in foundation concrete 1:2:4 of size 0.60x0.60x0.75m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	65.28	35.79			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	2798.69	1509.67			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		2x3.90 = 7.80mtr @ 5.30kg per mtr = 41.34 kg								
		Vertical Support Base 65x65x6mm								
		2x2x0.20 = 0.80mtr @ 5.30kg per mtr = 4.24 kg								
		Board Frame 25x25x3mm								
		2x1.20 = 2.40mtr @ 1.10kg per mtr = 2.64 kg								
		3x1.20 = 3.60mtr @ 1.10kg per mtr = 3.96 kg								
		Total = 52.18 kg								
		Add 5% wastage = 2.61 kg								
		Total = 54.79 kg or 0.548 qtl		qtl	0.548	3796.00	2080.21			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		1.20x1.20 = 1.44 sqm								
		Add 5% wastage = 0.072 sqm								
		Total = 1.512 sqm	sqm	1.512	2000.00	3024.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		1.20x1.20 = 1.44 sqm								
		Border								
		2x(1.20+1.20)x0.075 = 0.36 sqm								
		Place Name								
		1.20x1.20x20% = 0.288 sqm								
		Total = 2.088 sqm								
		Add 5% wastage = 0.104 sqm								
		Total = 2.192 sqm	sqm	2.192	4500.00	9864.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		2x3.90x4x0.065 = 2.028 sqm								
		Board Frame 25x25x3mm								
		2x1.20x4x0.025 = 0.24 sqm								
		3x1.20x4x0.025 = 0.36 sqm								
		Total = 2.628 sqm								
		Taking 0.145 litre per sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Qty of paint = 0.381 litre	ltr	0.381	188.48	71.81				
(v)		Red Oxide Primer of approved quality								
		Vertical Support 65x65x6mm								
		2x3.90x4x0.065 = 2.028 sqm								
		Board Frame 25x25x3mm								
		2x1.20x4x0.025 = 0.24 sqm								
		3x1.20x4x0.025 = 0.36 sqm								
		Total = 2.628 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.142 litre	ltr	0.142	102.94	14.62				
(vi)		Welding rod box	each	2.000	158.25	316.50				
		Total - I				15371.14				
		Add contractor's profit @ 10% i.e. on Rs. 15371.14				1537.11				
		Add Labour cess @ 1% i.e. on Rs. 16908.25				169.08				
		Cost for 1 nos.				18622.80				
		Cost for 1 nos.				18622.80	18622.80			18622.80
II		Labour								
		Taking output 4 nos.								
(i)		Mate	Day	0.20	151.44	30.29				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	4.00	143.81	575.24				
(iii)		Blacksmith (1st Class)	Day	2.00	223.36	446.72				
(iv)		Painter (2nd Class)	Day	1.00	190.00	190.00				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Machinery										
(v)		Tractor Trolly			Hour	4.00	250.00	1000.00				
		Total - II						2242.25				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2242.25						112.11				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2354.36						506.19				
		Add Labour cess @ 1% i.e. on Rs. 2860.55						28.61				
		Labour for	4	nos.				2889.16				
		Labour for	1	nos.				722.29	722.29		722.29	
		Cost for	1	nos.					19345.09			
		Add 10% for sub mountainous region										72.23
		Labour for	1	nos.								794.52
		Cost for	1	nos.								19417.32

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.48	d	Advance Direction Sign Board 1200x1800mm Rectangular								
		Advance Direction sign board 1200x1800mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on two mild steel angle iron posts 65x65x6mm firmly fixed to ground in foundation concrete 1:2:4 of size 0.60x0.60x0.75m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	68.28	35.79			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		2x0.60x0.60x0.75 = 0.54 cum		cum	0.54	2795.89	1509.67			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		2x4.50 = 9.00mtr @ 5.30kg per mtr = 47.70 kg								
		Vertical Support Base 65x65x6mm								
		2x2x0.20 = 0.80mtr @ 5.30kg per mtr = 4.24 kg								
		Board Frame 25x25x3mm								
		3x1.80 = 5.40mtr @ 1.10kg per mtr = 5.94 kg								
		3x1.20 = 3.60mtr @ 1.10kg per mtr = 3.96 kg								
		Total = 61.84 kg								
		Add 5% wastage = 3.09 kg								
		Total = 64.93 kg or 0.649 qtl		qtl	0.649	3796.00	2463.60			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		1.20x1.80 = 2.16 sqm								
		Add 5% wastage = 0.108 sqm								
		Total = 2.268 sqm	sqm	1.512	2000.00	3024.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		1.20x1.80 = 2.16 sqm								
		Border								
		2x(1.80+1.20)x0.075 = 0.45 sqm								
		Place Name								
		1.80x1.20x20% = 0.432 sqm								
		Total = 3.042 sqm								
		Add 5% wastage = 0.152 sqm								
		Total = 3.194 sqm	sqm	3.194	4500.00	14373.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		2x4.50x4x0.065 = 2.34 sqm								
		Board Frame 25x25x3mm								
		3x1.80x4x0.025 = 0.54 sqm								
		3x1.20x4x0.025 = 0.36 sqm								
		Total = 3.24 sqm								
		Taking 0.145 litre per sqm								

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Qty of paint = 0.470 litre			ltr	0.470	188.48	88.59				
(v)		Red Oxide Primer of approved quality										
		Vertical Support 65x65x6mm										
		2x4.50x4x0.065 = 2.34 sqm										
		Board Frame 25x25x3mm										
		3x1.80x4x0.025 = 0.54 sqm										
		3x1.20x4x0.025 = 0.36 sqm										
		Total = 3.24 sqm										
		Taking 0.054 litre per sqm										
		Qty of primer = 0.175 litre			ltr	0.175	102.94	18.01				
(vi)		Welding rod box			each	2.000	158.25	316.50				
		Total - I						20283.70				
		Add contractor's profit @ 10% i.e. on Rs. 20283.7						2028.37				
		Add Labour cess @ 1% i.e. on Rs. 22312.07						223.12				
		Cost for 1 nos.						24080.65				
		Cost for 1 nos.						24080.65	24080.65			24080.65
II		Labour										
		Taking output 4 nos.										
(i)		Mate			Day	0.30	151.44	45.43				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	6.00	143.81	862.86				
(iii)		Blacksmith (1st Class)			Day	3.00	223.36	670.08				
(iv)		Painter (2nd Class)			Day	1.50	190.00	285.00				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Machinery								
(v)		Tractor Trolly	Hour	4.00	250.00	1000.00				
		Total - II				2863.37				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2863.37				143.17				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3006.54				646.41				
		Add Labour cess @ 1% i.e. on Rs. 3652.95				36.53				
		Labour for 4 nos.				3689.48				
		Labour for 1 nos.				922.37	922.37		922.37	
		Cost for 1 nos.					25003.02			
		Add 10% for sub mountainous region								92.24
		Labour for 1 nos.								1014.61
		Cost for 1 nos.								25095.26

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.49		Definition Plate 600x200mm Rectangular								
		Definition Plate 600x200mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet welded with vertical post of sign board complete as per technical clause 801 of MORT&H specifications	1	nos.						
I		Materials								
(i)		MS angle iron								
		Plate Frame 25x25x3mm								
		2x0.60 = 1.20mtr @ 1.10kg per mtr = 1.32 kg								
		2x0.20 = 0.40mtr @ 1.10kg per mtr = 0.44 kg								
		Total = 1.76 kg								
		Add 5% wastage = 0.088 kg								
		Total = 1.848 kg or 0.018 qtl	qtl	0.018	3796.00	68.33				
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		0.60x0.20 = 0.12 sqm								
		Add 5% wastage = 0.006 sqm								
		Total = 0.126 sqm	sqm	0.126	2000.00	252.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Plate Base								
		0.60x0.20 = 0.12 sqm								
		Border								
		2x(0.60+0.20)x0.020 = 0.032 sqm								
		Definition								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.60x0.20x20% = 0.024 sqm								
		Total = 0.176 sqm								
		Add 5% wastage = 0.008 sqm								
		Total = 0.185 sqm	sqm	0.185	4500.00	832.50				
(iv)		Synthetic Enamel Paint of approved quality two coats								
		Plate Frame 25x25x3mm								
		2x0.60x4x0.025 = 0.12 sqm								
		2x0.20x4x0.025 = 0.04 sqm								
		Total = 0.16 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.023 litre	ltr	0.023	188.48	4.34				
(v)		Red Oxide Primer of approved quality								
		Plate Frame 25x25x3mm								
		2x0.60x4x0.025 = 0.12 sqm								
		2x0.20x4x0.025 = 0.04 sqm								
		Total = 0.16 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 0.009 litre	ltr	0.009	102.94	0.93				
(vi)		Welding rod box	each	0.100	158.25	15.83				
		Total - I				1173.93				
		Add contractor's profit @ 10% i.e. on Rs. 1173.93				117.39				
		Add Labour cess @ 1% i.e. on Rs. 1291.32				12.91				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.				1304.24				
		Cost for 1 nos.				1304.24	1304.24			1304.24
II		Labour								
		Taking output 4 nos.								
(i)		Blacksmith (1st Class)	Day	0.40	223.36	89.34				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	0.40	143.81	57.52				
(iii)		Painter (2nd Class)	Day	0.20	190.00	38.00				
		Total - II				184.86				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 184.86				9.24				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 194.1				41.73				
		Add Labour cess @ 1% i.e. on Rs. 235.83				2.36				
		Labour for 4 nos.				238.19				
		Labour for 1 nos.				59.55	59.55		59.55	
		Cost for 1 nos.					1363.79			
		Add 10% for sub mountainous region								5.96
		Labour for 1 nos.								65.51
		Cost for 1 nos.								1369.75

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.50	a	Direction/Diversion Plate 900x300mm Rectangular								
		Direction/Diversion Plate 900x300mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet fixed in position complete as per technical clause 801 of MORT&H specifications	1	nos.						
I		Materials								
(i)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		0.90x0.30 = 0.27 sqm								
		Add 5% wastage = 0.014 sqm								
		Total = 0.284 sqm		sqm	0.284	2000.00	568.00			
(ii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Plate Base								
		0.90x0.30 = 0.27 sqm								
		Total = 0.27 sqm								
		Add 5% wastage = 0.014 sqm								
		Total = 0.284 sqm		sqm	0.284	4500.00	1278.00			
		Total - I					1846.00			
		Add contractor's profit @ 10% i.e. on Rs. 1846					184.60			
		Add Labour cess @ 1% i.e. on Rs. 2030.6					20.31			
		Cost for	1	nos.			2050.91			
		Cost for	1	nos.			2050.91		2050.91	2050.91
II		Labour								
		Taking output	4	nos.						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Blacksmith (1st Class)			Day	0.10	223.36	22.34				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	0.10	143.81	14.38				
		Total - II						36.72				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 36.72						1.84				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 38.56						8.29				
		Add Labour cess @ 1% i.e. on Rs. 46.85						0.47				
		Labour for	4	nos.				47.32				
		Labour for	1	nos.				11.83	11.83		11.83	
		Cost for	1	nos.					2062.74			
		Add 10% for sub mountainous region										1.18
		Labour for	1	nos.								13.01
		Cost for	1	nos.								2063.92

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.50	b	Direction/Diversion Plate 1800x300mm Rectangular								
		Direction/Diversion Plate 1800x300mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet fixed in position complete as per technical clause 801 of MORT&H specifications	1	nos.						
I		Materials								
(i)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		1.80x0.30 = 0.54 sqm								
		Add 5% wastage = 0.027 sqm								
		Total = 0.567 sqm		sqm	0.567	2000.00	1134.00			
(ii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Plate Base								
		1.80x0.30 = 0.54 sqm								
		Total = 0.54 sqm								
		Add 5% wastage = 0.027 sqm								
		Total = 0.567 sqm		sqm	0.567	4500.00	2551.50			
		Total - I					3685.50			
		Add contractor's profit @ 10% i.e. on Rs. 3685.5					368.55			
		Add Labour cess @ 1% i.e. on Rs. 4054.05					40.54			
		Cost for	1	nos.			4094.59			
		Cost for	1	nos.			4094.59	4094.59		4094.59
II		Labour								
		Taking output	4	nos.						

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(i)		Blacksmith (1st Class)			Day	0.10	223.36	22.34				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	0.10	143.81	14.38				
		Total - II						36.72				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 36.72						1.84				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 38.56						8.29				
		Add Labour cess @ 1% i.e. on Rs. 46.85						0.47				
		Labour for	4	nos.				47.32				
		Labour for	1	nos.				11.83	11.83			
		Cost for	1	nos.					4106.42			
		Add 10% for sub mountainous region										1.18
		Labour for	1	nos.								13.01
		Cost for	1	nos.								4107.60

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.51		Hazard Marker Sign Board 300x900mm Rectangular								
		Hazard Marker sign board 300x900mm rectangular as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 25x25x3mm angle iron frame supported on a mild steel angle iron post 65x65x6mm firmly fixed to ground including foundation concrete 1:2:4 of size 0.45x0.45x0.60m for vertical post complete as per technical clause 801 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	66.28	8.09			
(ii)		CC 1:2:4 as per CSR Chapter 10								
		1x0.45x0.45x0.60 = 0.122 cum		cum	0.122	2795.69	341.07			
I b		Materials								
(i)		MS angle iron								
		Vertical Support 65x65x6mm								
		1x1.75 = 1.75mtr @ 5.30kg per mtr = 9.28 kg								
		Vertical Support Base 65x65x6mm								
		2x0.20 = 0.40mtr @ 5.30kg per mtr = 2.12 kg								
		Board Frame 25x25x3mm								
		2x(0.30+0.90) = 2.40mtr @ 1.10kg per mtr = 2.64 kg								
		Total = 14.04 kg								
		Add 5% wastage = 0.70 kg								
		Total = 14.74 kg or 0.147 qtl		qtl	0.147	3796.00	558.01			
(ii)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		0.30x0.90 = 0.27 sqm								
		Add 5% wastage = 0.014 sqm								
		Total = 0.284 sqm	sqm	0.284	2000.00	568.00				
(iii)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		0.30x0.90 = 0.27 sqm								
		Total = 0.27 sqm								
		Add 5% wastage = 0.014 sqm								
		Total = 0.284 sqm	sqm	0.284	4500.00	1278.00				
(iv)		Stove Enamel Paint of approved quality two coats								
		Vertical Support 65x65x6mm								
		1.75x4x0.065 = 0.455 sqm								
		Board Frame 25x25x3mm								
		2x(0.30+0.90)x4x0.025 = 0.24 sqm								
		Total = 0.695 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 0.100 litre	ltr	0.100	188.48	18.85				
(v)		Red Oxide Primer of approved quality								
		Vertical Support 65x65x6mm								
		1.75x4x0.065 = 0.455 sqm								
		Board Frame 25x25x3mm								
		2x(0.30+0.90)x4x0.025 = 0.24 sqm								
		Total = 0.695 sqm								
		Taking 0.054 litre per sqm								

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Qty of primer = 0.038 litre			ltr	0.038	102.94	3.91				
(vi)		Welding rod box			each	0.500	158.25	79.13				
		Total - I						2505.90				
		Add contractor's profit @ 10% i.e. on Rs. 2505.9						250.59				
		Add Labour cess @ 1% i.e. on Rs. 2756.49						27.56				
		Cost for	1	nos.				3133.21				
		Cost for	1	nos.				3133.21	3133.21			3133.21
II		Labour										
		Taking output	4	nos.								
(i)		Mate			Day	0.10	151.44	15.14				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)			Day	2.00	143.81	287.62				
(iii)		Blacksmith (1st Class)			Day	1.00	223.36	223.36				
(iv)		Painter (2nd Class)			Day	0.50	190.00	95.00				
		Machinery										
(v)		Tractor Trolly			Hour	2.00	250.00	500.00				
		Total - II						1121.12				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 1121.12						56.06				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 1177.18						253.09				
		Add Labour cess @ 1% i.e. on Rs. 1430.27						14.30				
		Labour for	4	nos.				1444.57				
		Labour for	1	nos.				361.14	361.14		361.14	
		Cost for	1	nos.					3494.35			
		Add 10% for sub mountainous region										36.11
		Labour for	1	nos.								397.25
		Cost for	1	nos.								3530.46

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.52	a	Overhead Sign Board 6000x1500mm Cantilever Type Single Sided								
		Overhead sign board 6000x1500mm cantilever type single sided as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 40x40x6mm angle iron frame supported on designed single support system of MS pipe and plates in the form of a cantilever type truss made with 350NB pipe @50kg per mtr as verical support, 50NB pipe @ 4.50kg per mtr and 40NB pipe @ 3.61kg per mtr for truss including base plates, gusset plates, designed RCC foundation for fixing in ground complete as per technical clause 802 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x3.20x1.60x2.70 = 13.82 cum		cum	13.82	66.28	915.99			
(ii)		CC 1:4:8 as per CSR Chapter 10								
		1x3.20x1.60x0.15 = 0.77 cum		cum	0.77	1957.23	1507.07			
(iii)		RCC M-20 as per CSR Chapter 10								
		1x3.05x1.45x0.40 = 1.77 cum								
		1x1.00x1.00x2.15 = 2.15 cum								
		Total = 3.92 cum		cum	3.92	3527.85	13829.17			
(iv)		CTD bars for RCC M-20 as per CSR Chapter 18								
		3.92cum @ 60kg per cum = 235.20 kg or 2.352 qtl		qtl	2.352	5264.97	12383.21			
(v)		Shuttering for RCC M-20 as per CSR Chapter 9								
		2x3.05x0.40 = 2.44 sqm								
		2x1.45x0.40 = 1.16 sqm								
		4x1.00x2.15 = 8.60 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Total = 12.20 sqm	sqm	12.20	117.23	1430.21				
		Total - I a				30065.65				
I b		Materials								
(i)		MS pipe 350NB for vertical support								
		1x7.00 = 7.00mtr @ 50.00kg per mtr = 350.00 kg								
		MS pipe 50NB for truss frame								
		4x6.00 = 24.00mtr @ 4.50kg per mtr = 108.00 kg								
		MS pipe 40NB for truss internal member								
		Vertical 2x7x1.40 = 19.60mtr @ 3.61kg per mtr = 70.76 kg								
		Diagonal 2x6x1.66 = 19.92mtr @ 3.61kg per mtr = 71.91 kg								
		Horizontal 2x7x0.75 = 10.50mtr @ 3.61kg per mtr = 37.91 kg								
		Diagonal 2x6x1.58 = 18.96mtr @ 3.61kg per mtr = 68.45 kg								
		Crossover 1x7x1.66 = 11.62mtr @ 3.61kg per mtr = 41.95 kg								
		Bracing 2x2x1.41 = 5.64mtr @ 3.61kg per mtr = 20.36 kg								
		Horizontal 2x2x0.75 = 3.00mtr @ 3.61kg per mtr = 10.83 kg								
		Diagonal 2x3x0.89 = 5.34mtr @ 3.61kg per mtr = 19.28 kg								
		Total = 799.45 kg								
		Add 5% wastage = 39.97 kg								
		Total = 839.42 kg or 8.394 qtl	qtl	8.394	4212.00	35355.53				
(ii)		MS plates								
		8mm foundation plate 1x0.80x0.80 = 0.64sqm @ 62.80 per sqm = 40.19 kg								
		8mm top supporting plate 0.50x8x0.30x0.60 = 0.72sqm @ 62.80 per sqm = 45.22 kg								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		10mm bracing supporting plate 0.50x4x0.20x0.40 = 0.16sqm @ 78.50 per sqm = 12.56 kg								
		12mm top plate 1x0.95x0.95 = 0.903sqm @ 94.20 per sqm = 85.06 kg								
		12mm base plate 2x0.80x0.80 = 1.28sqm @ 94.20 per sqm = 120.58 kg								
		12mm base supporting plate 0.50x8x0.22x0.45 = 0.396sqm @ 94.20 per sqm = 37.30 kg								
		Total = 340.91 kg								
		Add 5% wastage = 17.05 kg								
		Total = 357.96 kg or 3.58 qtl	qtl	3.580	4368.00	15637.44				
(iii)		Anchor bolts and nuts for foundation and for fixing plate with truss								
		25mm anchor bolt 12x0.90 = 10.80 mtr @ 3.85 kg per mtr = 41.58 kg								
		For truss @ 2% of pipe weight = 16.80 kg								
		Total = 58.38 kg	kg	58.380	68.58	4003.70				
(iv)		MS angle iron								
		Board Frame 40x40x6mm								
		3x6.00 = 18.00mtr @ 3.50kg per mtr = 63.00 kg								
		7x1.50 = 10.50mtr @ 3.50kg per mtr = 36.75 kg								
		Total = 99.75 kg								
		Add 5% wastage = 4.99 kg								
		Total = 104.74 kg or 1.047 qtl	qtl	1.047	3796.00	3974.41				
(v)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		6.00x1.50 = 9.00 sqm								
		Add 5% wastage = 0.45 sqm								
		Total = 9.45 sqm	sqm	9.450	2000.00	18900.00				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vi)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		6.00x1.50 = 9.00 sqm								
		Border								
		2x(6.00+1.50)x0.10 = 1.50 sqm								
		Place Name & arrows etc.								
		6.00x1.50x20% = 1.80 sqm								
		Total = 12.30 sqm								
		Add 5% wastage = 0.615 sqm								
		Total = 12.915 sqm	sqm	12.915	4500.00	58117.50				
(vii)		Stove Enamel Paint of approved quality two coats								
		MS pipe 350NB for vertical support								
		1x3.142x0.35x7.00 = 7.70 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x6.00 = 3.77 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x7x3.142x0.04x1.40 = 2.46 sqm								
		Diagonal 2x6x3.142x0.04x1.66 = 2.50 sqm								
		Horizontal 2x7x3.142x0.04x0.75 = 1.32 sqm								
		Diagonal 2x6x3.142x0.04x1.58 = 2.38 sqm								
		Crossover 1x7x3.142x0.04x1.66 = 1.46 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x0.50x8x0.30x0.60 = 1.44 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x1x0.95x0.95 = 1.81 sqm								
		12mm base plate 2x2x0.80x0.80 = 2.56 sqm								
		12mm base supporting plate 2x0.50x8x0.22x0.45 = 0.79 sqm								
		Board Frame 40x40x6mm								
		3x6.00x4x0.04 = 2.88 sqm								
		7x1.50x4x0.04 = 1.68 sqm								
		Total = 34.83 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 5.05 litre	ltr	5.050	188.48	951.82				
(v)		Red Oxide Primer of approved quality								
		MS pipe 350NB for vertical support								
		1x3.142x0.35x7.00 = 7.70 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x6.00 = 3.77 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x7x3.142x0.04x1.40 = 2.46 sqm								
		Diagonal 2x6x3.142x0.04x1.66 = 2.50 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Horizontal 2x7x3.142x0.04x0.75 = 1.32 sqm								
		Diagonal 2x6x3.142x0.04x1.58 = 2.38 sqm								
		Crossover 1x7x3.142x0.04x1.66 = 1.46 sqm								
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x0.50x8x0.30x0.60 = 1.44 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x1x0.95x0.95 = 1.81 sqm								
		12mm base plate 2x2x0.80x0.80 = 2.56 sqm								
		12mm base supporting plate 2x0.50x8x0.22x0.45 = 0.79 sqm								
		Board Frame 40x40x6mm								
		3x6.00x4x0.04 = 2.88 sqm								
		7x1.50x4x0.04 = 1.68 sqm								
		Total = 34.83 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 1.88 litre	ltr	1.880	102.94	193.53				
(vi)		Welding rod box for fabrication of truss	each	12.000	158.25	1899.00				
		Total - I				139032.93				
		Add contractor's profit @ 10% i.e. on Rs. 139032.93				13903.29				
		Add Labour cess @ 1% i.e. on Rs. 152936.22				1529.36				
		Cost for 1 nos.				184531.24				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.				184531.24	184531.24			184531.24
II		Labour								
		Taking output 1 nos.								
(i)		Mate for fixing and plate fabrication	Day	0.48	151.44	72.69				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) for fixing and plate fabrication	Day	6.35	143.81	913.19				
(iii)		Blacksmith (1st Class) for fixing and plate fabrication	Day	3.40	223.36	759.42				
(iv)		Welder for fabrication of truss	Day	12.00	174.53	2094.36				
(v)		Mazdoor Unskilled (Semi Skilled Lower) Helper for fabrication of truss	Day	12.00	143.81	1725.72				
(vi)		Painter (2nd Class)	Day	3.00	190.00	570.00				
		Machinery								
		Crane 3 tonne capacity	hour	8.00	345.00	2760.00				
		Truck	hour	8.00	279.00	2232.00				
		Total - II				11127.38				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 11127.38				556.37				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 11683.75				2512.01				
		Add Labour cess @ 1% i.e. on Rs. 14195.76				141.96				
		Labour for 1 nos.				14337.72				
		Labour for 1 nos.				14337.72	14337.72		14337.72	
		Cost for 1 nos.					198868.96			
		Add 10% for sub mountainous region								1433.77
		Labour for 1 nos.								15771.49

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.								200302.73

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.52	b	Overhead Sign Board 6000x1500mm Cantilever Type Double Sided								
		Overhead sign board 6000x1500mm cantilever type double sided as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 40x40x6mm angle iron frame supported on designed single support system of MS pipe and plates in the form of a cantilever type truss made with 350NB pipe @50kg per mtr as verical support, 50NB pipe @ 4.50kg per mtr and 40NB pipe @ 3.61kg per mtr for truss including base plates, gusset plates, designed RCC foundation for fixing in ground complete as per technical clause 802 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		1x3.20x1.60x2.70 = 13.82 cum		cum	13.82	66.28	915.99			
(ii)		CC 1:4:8 as per CSR Chapter 10								
		1x3.20x1.60x0.15 = 0.77 cum		cum	0.77	1957.23	1507.07			
(iii)		RCC M-20 as per CSR Chapter 10								
		1x3.05x1.45x0.40 = 1.77 cum								
		1x1.00x1.00x2.15 = 2.15 cum								
		Total = 3.92 cum		cum	3.92	3527.85	13829.17			
(iv)		CTD bars for RCC M-20 as per CSR Chapter 18								
		3.92cum @ 60kg per cum = 235.20 kg or 2.352 qtl		qtl	2.352	5264.97	12383.21			
(v)		Shuttering for RCC M-20 as per CSR Chapter 9								
		2x3.05x0.40 = 2.44 sqm								
		2x1.45x0.40 = 1.16 sqm								
		4x1.00x2.15 = 8.60 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Total = 12.20 sqm	sqm	12.20	117.23	1430.21				
		Total - I a				30065.65				
I b		Materials								
(i)		MS pipe 350NB for vertical support								
		1x7.00 = 7.00mtr @ 50.00kg per mtr = 350.00 kg								
		MS pipe 50NB for truss frame								
		4x6.00 = 24.00mtr @ 4.50kg per mtr = 108.00 kg								
		MS pipe 40NB for truss internal member								
		Vertical 2x7x1.40 = 19.60mtr @ 3.61kg per mtr = 70.76 kg								
		Diagonal 2x6x1.66 = 19.92mtr @ 3.61kg per mtr = 71.91 kg								
		Horizontal 2x7x0.75 = 10.50mtr @ 3.61kg per mtr = 37.91 kg								
		Diagonal 2x6x1.58 = 18.96mtr @ 3.61kg per mtr = 68.45 kg								
		Crossover 1x7x1.66 = 11.62mtr @ 3.61kg per mtr = 41.95 kg								
		Bracing 2x2x1.41 = 5.64mtr @ 3.61kg per mtr = 20.36 kg								
		Horizontal 2x2x0.75 = 3.00mtr @ 3.61kg per mtr = 10.83 kg								
		Diagonal 2x3x0.89 = 5.34mtr @ 3.61kg per mtr = 19.28 kg								
		Total = 799.45 kg								
		Add 5% wastage = 39.97 kg								
		Total = 839.42 kg or 8.394 qtl	qtl	8.394	4212.00	35355.53				
(ii)		MS plates								
		8mm foundation plate 1x0.80x0.80 = 0.64sqm @ 62.80 per sqm = 40.19 kg								
		8mm top supporting plate 0.50x8x0.30x0.60 = 0.72sqm @ 62.80 per sqm = 45.22 kg								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		10mm bracing supporting plate 0.50x4x0.20x0.40 = 0.16sqm @ 78.50 per sqm = 12.56 kg								
		12mm top plate 1x0.95x0.95 = 0.903sqm @ 94.20 per sqm = 85.06 kg								
		12mm base plate 2x0.80x0.80 = 1.28sqm @ 94.20 per sqm = 120.58 kg								
		12mm base supporting plate 0.50x8x0.22x0.45 = 0.396sqm @ 94.20 per sqm = 37.30 kg								
		Total = 340.91 kg								
		Add 5% wastage = 17.05 kg								
		Total = 357.96 kg or 3.58 qtl	qtl	3.580	4368.00	15637.44				
(iii)		Anchor bolts and nuts for foundation and for fixing plate with truss								
		25mm anchor bolt 12x0.90 = 10.80 mtr @ 3.85 kg per mtr = 41.58 kg								
		For truss @ 2% of pipe weight = 16.80 kg								
		Total = 58.38 kg	kg	58.380	68.58	4003.70				
(iv)		MS angle iron								
		Board Frame 40x40x6mm								
		2x3x6.00 = 36.00mtr @ 3.50kg per mtr = 126.00 kg								
		2x7x1.50 = 21.00mtr @ 3.50kg per mtr = 73.50 kg								
		Total = 199.50 kg								
		Add 5% wastage = 9.98 kg								
		Total = 209.95 kg or 2.10 qtl	qtl	2.100	3796.00	7971.60				
(v)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		2x6.00x1.50 = 18.00 sqm								
		Add 5% wastage = 0.90 sqm								
		Total = 18.90 sqm	sqm	18.900	2000.00	37800.00				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vi)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		2x6.00x1.50 = 18.00 sqm								
		Border								
		2x2x(6.00+1.50)x0.10 = 3.00 sqm								
		Place Name & arrows etc.								
		2x6.00x1.50x20% = 3.60 sqm								
		Total = 24.60 sqm								
		Add 5% wastage = 1.23 sqm								
		Total = 25.83 sqm	sqm	25.830	4500.00	116235.00				
(vii)		Stove Enamel Paint of approved quality two coats								
		MS pipe 350NB for vertical support								
		1x3.142x0.35x7.00 = 7.70 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x6.00 = 3.77 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x7x3.142x0.04x1.40 = 2.46 sqm								
		Diagonal 2x6x3.142x0.04x1.66 = 2.50 sqm								
		Horizontal 2x7x3.142x0.04x0.75 = 1.32 sqm								
		Diagonal 2x6x3.142x0.04x1.58 = 2.38 sqm								
		Crossover 1x7x3.142x0.04x1.66 = 1.46 sqm								
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x0.50x8x0.30x0.60 = 1.44 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x1x0.95x0.95 = 1.81 sqm								
		12mm base plate 2x2x0.80x0.80 = 2.56 sqm								
		12mm base supporting plate 2x0.50x8x0.22x0.45 = 0.79 sqm								
		Board Frame 40x40x6mm								
		2x3x6.00x4x0.04 = 5.76 sqm								
		2x7x1.50x4x0.04 = 3.36 sqm								
		Total = 39.39 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 5.71 litre	ltr	5.710	188.48	1076.22				
(v)		Red Oxide Primer of approved quality								
		MS pipe 350NB for vertical support								
		1x3.142x0.35x7.00 = 7.70 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x6.00 = 3.77 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x7x3.142x0.04x1.40 = 2.46 sqm								
		Diagonal 2x6x3.142x0.04x1.66 = 2.50 sqm								
		Horizontal 2x7x3.142x0.04x0.75 = 1.32 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Diagonal 2x6x3.142x0.04x1.58 = 2.38 sqm								
		Crossover 1x7x3.142x0.04x1.66 = 1.46 sqm								
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x0.50x8x0.30x0.60 = 1.44 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x1x0.95x0.95 = 1.81 sqm								
		12mm base plate 2x2x0.80x0.80 = 2.56 sqm								
		12mm base supporting plate 2x0.50x8x0.22x0.45 = 0.79 sqm								
		Board Frame 40x40x6mm								
		2x3x6.00x4x0.04 = 5.76 sqm								
		2x7x1.50x4x0.04 = 3.36 sqm								
		Total = 39.39 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 2.13 litre		ltr	2.130	102.94	219.26			
(vi)		Welding rod box for fabrication of truss		each	14.000	158.25	2215.50			
		Total - I					220514.25			
		Add contractor's profit @ 10% i.e. on Rs. 220514.25					22051.43			
		Add Labour cess @ 1% i.e. on Rs. 242565.68					2425.66			
		Cost for 1 nos.					275056.98			
		Cost for 1 nos.					275056.98	275056.98		275056.98
II		Labour								
		Taking output 1 nos.								
(i)		Mate for fixing and plate fabrication		Day	0.66	151.44	99.95			
(ii)		Mazdoor Unskilled (Semi Skilled Lower) for fixing and plate fabrication		Day	7.70	143.81	1107.34			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(iii)		Blacksmith (1st Class) for fixing and plate fabrication	Day	4.30	223.36	960.45				
(iv)		Welder for fabrication of truss	Day	12.00	174.53	2094.36				
(v)		Mazdoor Unskilled (Semi Skilled Lower) Helper for fabrication of truss	Day	12.00	143.81	1725.72				
(vi)		Painter (2nd Class)	Day	3.00	190.00	570.00				
		Machinery								
		Crane 3 tonne capacity	hour	8.00	345.00	2760.00				
		Truck	hour	8.00	279.00	2232.00				
		Total - II				11549.82				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 11549.82				577.49				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 12127.31				2607.37				
		Add Labour cess @ 1% i.e. on Rs. 14734.68				147.35				
		Labour for 1 nos.				14882.03				
		Labour for 1 nos.				14882.03	14882.03		14882.03	
		Cost for 1 nos.					289939.01			
		Add 10% for sub mountainous region								1488.20
		Labour for 1 nos.								16370.23
		Cost for 1 nos.								291427.21

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.53		Overhead Sign Board 9000x1500mm Simply Supported Type Double Sided								
		Overhead sign board 9000x1500mm simply supported type double sided as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 40x40x6mm angle iron frame supported on designed double support system of MS pipe and plates in the form of a simply supported type truss made with 350NB pipe @50kg per mtr as verical support, 50NB pipe @ 4.50kg per mtr and 40NB pipe @ 3.61kg per mtr for truss including base plates, gusset plates, designed RCC foundation for fixing in ground complete as per technical clause 802 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x3.20x1.60x2.70 = 27.64 cum		cum	27.64	66.28	1831.98			
(ii)		CC 1:4:8 as per CSR Chapter 10								
		2x3.20x1.60x0.15 = 1.54 cum		cum	1.54	1957.23	3014.13			
(iii)		RCC M-20 as per CSR Chapter 10								
		2x3.05x1.45x0.40 = 3.54 cum								
		2x1.00x1.00x2.15 = 4.30 cum								
		Total = 7.84 cum		cum	7.84	3527.85	27658.34			
(iv)		CTD bars for RCC M-20 as per CSR Chapter 18								
		7.84cum @ 60kg per cum = 470.40 kg or 4.704 qtl		qtl	4.704	5264.97	24766.42			
(v)		Shuttering for RCC M-20 as per CSR Chapter 9								
		2x2x3.05x0.40 = 4.88 sqm								
		2x2x1.45x0.40 = 2.32 sqm								
		2x4x1.00x2.15 = 17.20 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Total = 24.40 sqm	sqm	24.40	117.23	2860.41				
		Total - I a				60131.28				
I b		Materials								
(i)		MS pipe 350NB for vertical support								
		2x7.00 = 14.00mtr @ 50.00kg per mtr = 700.00 kg								
		MS pipe 50NB for truss frame								
		4x9.00 = 36.00mtr @ 4.50kg per mtr = 162.00 kg								
		MS pipe 40NB for truss internal member								
		Vertical 2x10x1.40 = 28.00mtr @ 3.61kg per mtr = 101.08 kg								
		Diagonal 2x9x1.66 = 29.88mtr @ 3.61kg per mtr = 107.87 kg								
		Horizontal 2x10x0.75 = 15.00mtr @ 3.61kg per mtr = 54.15 kg								
		Diagonal 2x9x1.58 = 28.44mtr @ 3.61kg per mtr = 102.67 kg								
		Crossover 1x10x1.66 = 16.60mtr @ 3.61kg per mtr = 59.93 kg								
		Bracing 2x2x1.41 = 5.64mtr @ 3.61kg per mtr = 20.36 kg								
		Horizontal 2x2x0.75 = 3.00mtr @ 3.61kg per mtr = 10.83 kg								
		Diagonal 2x3x0.89 = 5.34mtr @ 3.61kg per mtr = 19.28 kg								
		Total = 1176.17 kg								
		Add 5% wastage = 58.81 kg								
		Total = 1234.98 kg or 12.350 qtl	qtl	12.350	4212.00	52018.20				
(ii)		MS plates								
		8mm foundation plate 2x0.80x0.80 = 1.28sqm @ 62.80 per sqm = 80.38 kg								
		8mm top supporting plate 2x0.50x8x0.30x0.60 = 1.44sqm @ 62.80 per sqm = 90.43 kg								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		10mm bracing supporting plate 0.50x4x0.20x0.40 = 0.16sqm @ 78.50 per sqm = 12.56 kg								
		12mm top plate 2x0.95x0.95 = 1.806sqm @ 94.20 per sqm = 170.12 kg								
		12mm base plate 2x2x0.80x0.80 = 2.56sqm @ 94.20 per sqm = 241.15 kg								
		12mm base supporting plate 2x0.50x8x0.22x0.45 = 0.792sqm @ 94.20 per sqm = 74.61 kg								
		Total = 669.25 kg								
		Add 5% wastage = 33.46 kg								
		Total = 702.71 kg or 7.027 qtl	qtl	7.027	4368.00	30693.94				
(iii)		Anchor bolts and nuts for foundation and for fixing plate with truss								
		25mm anchor bolt 2x12x0.90 = 21.60 mtr @ 3.85 kg per mtr = 83.16 kg								
		For truss @ 2% of pipe weight = 24.70 kg								
		Total = 107.86 kg	kg	107.860	68.58	7397.04				
(iv)		MS angle iron								
		Board Frame 40x40x6mm								
		2x3x9.00 = 54.00mtr @ 3.50kg per mtr = 189.00 kg								
		2x10x1.50 = 30.00mtr @ 3.50kg per mtr = 105.00 kg								
		Total = 294.00 kg								
		Add 5% wastage = 14.70 kg								
		Total = 308.70 kg or 3.087 qtl	qtl	3.087	3796.00	11718.25				
(v)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		2x9.00x1.50 = 27.00 sqm								
		Add 5% wastage = 1.35 sqm								
		Total = 28.35 sqm	sqm	28.350	2000.00	56700.00				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vi)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		2x9.00x1.50 = 27.00 sqm								
		Border								
		2x2x(9.00+1.50)x0.10 = 4.20 sqm								
		Place Name & arrows etc.								
		2x9.00x1.50x20% = 5.40 sqm								
		Total = 36.60 sqm								
		Add 5% wastage = 1.83 sqm								
		Total = 38.43 sqm	sqm	38.430	4500.00	172935.00				
(vii)		Stove Enamel Paint of approved quality two coats								
		MS pipe 350NB for vertical support								
		2x3.142x0.35x7.00 = 15.40 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x9.00 = 5.66 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x10x3.142x0.04x1.40 = 3.52 sqm								
		Diagonal 2x9x3.142x0.04x1.66 = 3.76 sqm								
		Horizontal 2x10x3.142x0.04x0.75 = 1.89 sqm								
		Diagonal 2x9x3.142x0.04x1.58 = 3.57 sqm								
		Crossover 1x10x3.142x0.04x1.66 = 2.09 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x2x0.50x8x0.30x0.60 = 2.88 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x2x0.95x0.95 = 3.62 sqm								
		12mm base plate 2x2x2x0.80x0.80 = 5.12 sqm								
		12mm base supporting plate 2x2x0.50x8x0.22x0.45 = 1.58 sqm								
		Board Frame 40x40x6mm								
		2x3x9.00x4x0.04 = 8.64 sqm								
		2x10x1.50x4x0.04 = 4.80 sqm								
		Total = 64.61 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 9.37 litre	ltr	9.370	188.48	1766.06				
(v)		Red Oxide Primer of approved quality								
		MS pipe 350NB for vertical support								
		2x3.142x0.35x7.00 = 15.40 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x9.00 = 5.66 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x10x3.142x0.04x1.40 = 3.52 sqm								
		Diagonal 2x9x3.142x0.04x1.66 = 3.76 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Horizontal 2x10x3.142x0.04x0.75 = 1.89 sqm								
		Diagonal 2x9x3.142x0.04x1.58 = 3.57 sqm								
		Crossover 1x10x3.142x0.04x1.66 = 2.09 sqm								
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x2x0.50x8x0.30x0.60 = 2.88 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x2x0.95x0.95 = 3.62 sqm								
		12mm base plate 2x2x2x0.80x0.80 = 5.12 sqm								
		12mm base supporting plate 2x2x0.50x8x0.22x0.45 = 1.58 sqm								
		Board Frame 40x40x6mm								
		2x3x9.00x4x0.04 = 8.64 sqm								
		2x10x1.50x4x0.04 = 4.80 sqm								
		Total = 64.61 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 3.49 litre	ltr	3.490	102.94	359.26				
(vi)		Welding rod box for fabrication of truss	each	20.000	158.25	3165.00				
		Total - I				336752.75				
		Add contractor's profit @ 10% i.e. on Rs. 336752.75				33675.28				
		Add Labour cess @ 1% i.e. on Rs. 370428.03				3704.28				
		Cost for 1 nos.				434263.59				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.				434263.59	434263.59			434263.59
II		Labour								
		Taking output 1 nos.								
(i)		Mate for fixing and plate fabrication	Day	0.99	151.44	149.93				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) for fixing and plate fabrication	Day	11.55	143.81	1661.01				
(iii)		Blacksmith (1st Class) for fixing and plate fabrication	Day	6.45	223.36	1440.67				
(iv)		Welder for fabrication of truss	Day	18.00	174.53	3141.54				
(v)		Mazdoor Unskilled (Semi Skilled Lower) Helper for fabrication of truss	Day	18.00	143.81	2588.58				
(vi)		Painter (2nd Class)	Day	4.50	190.00	855.00				
		Machinery								
		Crane 3 tonne capacity	hour	12.00	345.00	4140.00				
		Truck Trailer	hour	8.00	750.00	6000.00				
		Total - II				19976.73				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 19976.73				998.84				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 20975.57				4509.75				
		Add Labour cess @ 1% i.e. on Rs. 25485.32				254.85				
		Labour for 1 nos.				25740.17				
		Labour for 1 nos.				25740.17	25740.17	25740.17		
		Cost for 1 nos.					460003.76			
		Add 10% for sub mountainous region								2574.02
		Labour for 1 nos.								28314.19

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.								462577.78

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.54		Overhead Sign Board 12000x1500mm Simply Supported Type Double Sided								
		Overhead sign board 12000x1500mm simply supported type double sided as per IRC 67-2001 with retro reflective high intensity microprismatic grade sheeting fixed over 2mm thick aluminium sheet with 40x40x6mm angle iron frame supported on designed double support system of MS pipe and plates in the form of a simply supported type truss made with 350NB pipe @50kg per mtr as verical support, 50NB pipe @ 4.50kg per mtr and 40NB pipe @ 3.61kg per mtr for truss including base plates, gusset plates, designed RCC foundation for fixing in ground complete as per technical clause 802 of MORT&H specifications	1	nos.						
I a		Materials for fixing								
(i)		Earthwork in excavation as per CSR Chapter 6								
		2x3.20x1.60x2.70 = 27.64 cum		cum	27.64	66.28	1831.98			
(ii)		CC 1:4:8 as per CSR Chapter 10								
		2x3.20x1.60x0.15 = 1.54 cum		cum	1.54	1957.23	3014.13			
(iii)		RCC M-20 as per CSR Chapter 10								
		2x3.05x1.45x0.40 = 3.54 cum								
		2x1.00x1.00x2.15 = 4.30 cum								
		Total = 7.84 cum		cum	7.84	3527.85	27658.34			
(iv)		CTD bars for RCC M-20 as per CSR Chapter 18								
		7.84cum @ 60kg per cum = 470.40 kg or 4.704 qtl		qtl	4.704	5264.97	24766.42			
(v)		Shuttering for RCC M-20 as per CSR Chapter 9								
		2x2x3.05x0.40 = 4.88 sqm								
		2x2x1.45x0.40 = 2.32 sqm								
		2x4x1.00x2.15 = 17.20 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Total = 24.40 sqm	sqm	24.40	117.23	2860.41				
		Total - I a				60131.28				
I b		Materials								
(i)		MS pipe 350NB for vertical support								
		2x7.00 = 14.00mtr @ 50.00kg per mtr = 700.00 kg								
		MS pipe 50NB for truss frame								
		4x12.00 = 48.00mtr @ 4.50kg per mtr = 216.00 kg								
		MS pipe 40NB for truss internal member								
		Vertical 2x13x1.40 = 36.40mtr @ 3.61kg per mtr = 131.40 kg								
		Diagonal 2x12x1.66 = 39.84mtr @ 3.61kg per mtr = 143.82 kg								
		Horizontal 2x13x0.75 = 19.50mtr @ 3.61kg per mtr = 70.40 kg								
		Diagonal 2x12x1.58 = 37.92mtr @ 3.61kg per mtr = 136.89 kg								
		Crossover 1x13x1.66 = 21.58mtr @ 3.61kg per mtr = 77.90 kg								
		Bracing 2x2x1.41 = 5.64mtr @ 3.61kg per mtr = 20.36 kg								
		Horizontal 2x2x0.75 = 3.00mtr @ 3.61kg per mtr = 10.83 kg								
		Diagonal 2x3x0.89 = 5.34mtr @ 3.61kg per mtr = 19.28 kg								
		Total = 1526.88 kg								
		Add 5% wastage = 76.34 kg								
		Total = 1603.22 kg or 16.032 qtl	qtl	16.032	4212.00	67526.78				
(ii)		MS plates								
		8mm foundation plate 2x0.80x0.80 = 1.28sqm @ 62.80 per sqm = 80.38 kg								
		8mm top supporting plate 2x0.50x8x0.30x0.60 = 1.44sqm @ 62.80 per sqm = 90.43 kg								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		10mm bracing supporting plate 0.50x4x0.20x0.40 = 0.16sqm @ 78.50 per sqm = 12.56 kg								
		12mm top plate 2x0.95x0.95 = 1.806sqm @ 94.20 per sqm = 170.12 kg								
		12mm base plate 2x2x0.80x0.80 = 2.56sqm @ 94.20 per sqm = 241.15 kg								
		12mm base supporting plate 2x0.50x8x0.22x0.45 = 0.792sqm @ 94.20 per sqm = 74.61 kg								
		Total = 669.25 kg								
		Add 5% wastage = 33.46 kg								
		Total = 702.71 kg or 7.027 qtl	qtl	7.027	4368.00	30693.94				
(iii)		Anchor bolts and nuts for foundation and for fixing plate with truss								
		25mm anchor bolt 2x12x0.90 = 21.60 mtr @ 3.85 kg per mtr = 83.16 kg								
		For truss @ 2% of pipe weight = 32.06 kg								
		Total = 115.22 kg	kg	115.220	68.58	7901.79				
(iv)		MS angle iron								
		Board Frame 40x40x6mm								
		2x3x12.00 = 72.00mtr @ 3.50kg per mtr = 252.00 kg								
		2x13x1.50 = 39.00mtr @ 3.50kg per mtr = 136.50 kg								
		Total = 388.50 kg								
		Add 5% wastage = 19.43 kg								
		Total = 407.93 kg or 4.079 qtl	qtl	4.079	3796.00	15483.88				
(v)		2mm thick Aluminium sheet painted with heat treatment process including etching treatment								
		2x12.00x1.50 = 36.00 sqm								
		Add 5% wastage = 1.80 sqm								
		Total = 37.80 sqm	sqm	37.800	2000.00	75600.00				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vi)		Retro reflective sheeting of high intensity microprismatic grade including cutting, pressure pasting, cutting of word matter with computer plotter and design and layout of board								
		Board Base								
		2x12.00x1.50 = 36.00 sqm								
		Border								
		2x2x(12.00+1.50)x0.10 = 5.40 sqm								
		Place Name & arrows etc.								
		2x12.00x1.50x20% = 7.20 sqm								
		Total = 48.60 sqm								
		Add 5% wastage = 2.43 sqm								
		Total = 51.03 sqm	sqm	51.030	4500.00	229635.00				
(vii)		Stove Enamel Paint of approved quality two coats								
		MS pipe 350NB for vertical support								
		2x3.142x0.35x7.00 = 15.40 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x12.00 = 7.54 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x13x3.142x0.04x1.40 = 4.57 sqm								
		Diagonal 2x12x3.142x0.04x1.66 = 5.00 sqm								
		Horizontal 2x13x3.142x0.04x0.75 = 2.45 sqm								
		Diagonal 2x12x3.142x0.04x1.58 = 4.76 sqm								
		Crossover 1x13x3.142x0.04x1.66 = 2.71 sqm								
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x2x0.50x8x0.30x0.60 = 2.88 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x2x0.95x0.95 = 3.62 sqm								
		12mm base plate 2x2x2x0.80x0.80 = 5.12 sqm								
		12mm base supporting plate 2x2x0.50x8x0.22x0.45 = 1.58 sqm								
		Board Frame 40x40x6mm								
		2x3x12.00x4x0.04 = 11.52 sqm								
		2x13x1.50x4x0.04 = 6.24 sqm								
		Total = 75.47 sqm								
		Taking 0.145 litre per sqm								
		Qty of paint = 10.94 litre	ltr	10.940	188.48	2061.97				
(v)		Red Oxide Primer of approved quality								
		MS pipe 350NB for vertical support								
		2x3.142x0.35x7.00 = 15.40 sqm								
		MS pipe 50NB for truss frame								
		4x3.142x0.05x12.00 = 7.54 sqm								
		MS pipe 40NB for truss internal member								
		Vertical 2x13x3.142x0.04x1.40 = 4.57 sqm								
		Diagonal 2x12x3.142x0.04x1.66 = 5.00 sqm								
		Horizontal 2x13x3.142x0.04x0.75 = 2.45 sqm								

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Diagonal 2x12x3.142x0.04x1.58 = 4.76 sqm								
		Crossover 1x13x3.142x0.04x1.66 = 2.71 sqm								
		Bracing 2x2x3.142x0.04x1.41 = 0.71 sqm								
		Horizontal 2x2x3.142x0.04x0.75 = 0.38 sqm								
		Diagonal 2x3x3.142x0.04x0.89 = 0.67 sqm								
		8mm top supporting plate 2x2x0.50x8x0.30x0.60 = 2.88 sqm								
		10mm bracing supporting plate 2x0.50x4x0.20x0.40 = 0.32 sqm								
		12mm top plate 2x2x0.95x0.95 = 3.62 sqm								
		12mm base plate 2x2x2x0.80x0.80 = 5.12 sqm								
		12mm base supporting plate 2x2x0.50x8x0.22x0.45 = 1.58 sqm								
		Board Frame 40x40x6mm								
		2x3x12.00x4x0.04 = 11.52 sqm								
		2x13x1.50x4x0.04 = 6.24 sqm								
		Total = 75.47 sqm								
		Taking 0.054 litre per sqm								
		Qty of primer = 4.08 litre	ltr	4.080	102.94	420.00				
(vi)		Welding rod box for fabrication of truss	each	28.000	158.25	4431.00				
		Total - I				433754.36				
		Add contractor's profit @ 10% i.e. on Rs. 433754.36				43375.44				
		Add Labour cess @ 1% i.e. on Rs. 477129.8				4771.30				
		Cost for 1 nos.				542032.37				
		Cost for 1 nos.				542032.37	542032.37			542032.37

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
II		Labour										
		Taking output	1	nos.								
(i)		Mate for fixing and plate fabrication			Day	1.32	151.44	199.90				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) for fixing and plate fabrication			Day	15.40	143.81	2214.67				
(iii)		Blacksmith (1st Class) for fixing and plate fabrication			Day	8.60	223.36	1920.90				
(iv)		Welder for fabrication of truss			Day	24.00	174.53	4188.72				
(v)		Mazdoor Unskilled (Semi Skilled Lower) Helper for fabrication of truss			Day	24.00	143.81	3451.44				
(vi)		Painter (2nd Class)			Day	6.00	190.00	1140.00				
		Machinery										
		Crane 3 tonne capacity			hour	14.00	345.00	4830.00				
		Truck Trailer			hour	10.00	750.00	7500.00				
		Total - II						25445.63				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 25445.63						1272.28				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 26717.91						5744.35				
		Add Labour cess @ 1% i.e. on Rs. 32462.26						324.62				
		Labour for	1	nos.				32786.88				
		Labour for	1	nos.				32786.88	32786.88		32786.88	
		Cost for	1	nos.					574819.25			
		Add 10% for sub mountainous region										3278.69
		Labour for	1	nos.								36065.57
		Cost for	1	nos.								578097.94

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.55		Hume Pipe Road Indicator										
		Hume pipe road indicator of 350mm dia NP-2 hume pipe 1200mm high, 900mm above ground level, 300mm embedded in ground in cement concrete 1:4:8 of size 0.75x0.75x0.60m, filled with earth and plugged from top with 300mm thick cement concrete 1:2:4, painted with two coats ready mixed exterior paint in black and white strips fixed in position complete as per PWD specifications	1	nos.								
I		Materials										
(i)		Earthwork in excavation as per CSR Chapter 6										
		1x0.75x0.75x0.60 = 0.3375 cum			cum	0.3375	66.28	22.37				
(ii)		CC 1:4:8 as per CSR Chapter 10										
		1x0.75x0.75x0.60 = 0.3375 cum										
		Deduction = 1x0.25x3.14x0.40x0.40x0.30 = 0.0377 cum										
		Net Total = 0.2998 cum			cum	0.2998	1957.23	586.78				
(iii)		Filling of earth in pipe as per CSR Chapter 6										
		1x0.25x3.14x0.35x0.35x1.00 = 0.0306 cum			cum	0.0306	23.72	0.73				
(iv)		CC 1:2:4 as per CSR Chapter 10										
		1x0.25x3.14x0.35x0.35x0.30 = 0.0092 cum			cum	0.0092	2798.69	25.72				
(v)		Painting new concrete surface as per CSR Chapter 16										
		1x3.14x0.40x0.90 = 1.1304 sqm										
		1x0.25x3.14x0.40x0.40 = 0.1256 sqm										
		Total = 1.256 sqm			sqm	1.2560	134.45	168.87				
(vi)		Cost of 350mm dia NP-2 hume pipe			mtr	1.20	350.00	420.00				
		Cost for	1	nos.				1224.47				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 nos.				1224.47	1224.47			1224.47
II		Labour (For transportation and fixing)								
		Taking output 14 no.								
(i)		Mate	Day	0.32	151.44	48.46				
(ii)		Mazdoor Unskilled (Semi Skilled Lower)	Day	5.00	143.81	719.05				
(iii)		Mason 1st class	Day	1.00	223.36	223.36				
		Machinery								
(iv)		Tractor Trolly	hour	6.00	250.00	1500.00				
		Total - II				2490.87				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 2490.87				124.54				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 2615.41				562.31				
		Add Labour cess @ 1% i.e. on Rs. 3177.72				31.78				
		Labour for 14 no.				3209.50				
		Labour for 1 no.				229.25	229.25	229.25		
		Cost for 1 no.					1453.72			
		Add 10% for sub mountainous region								22.93
		Labour for 1 no.								252.18
		Cost for 1 no.								1476.65

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.56	a	"W" Type Metal Beam Crash Barrier Single Sided										
		"W" type metal beam crash barrier single sided comprising of 3mm thick corrugated sheet metal beam rail 70cm above road or ground level fixed on channel vertical post 150x75x5mm spaced 2mtr centre to centre 1.80mtr high, 1.1mtr below road or ground level, all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS:1367 & IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150x75x5mm, 330mm long fixed firmly to ground with foundation concrete 1:2:4 of size 0.45x0.45x1.10m for vertical post complete as per approved drawings and technical clause 810 of MORT&H specifications	4	mtr								
I a		Materials for fixing										
(i)		Earthwork in excavation as per CSR Chapter 6										
		2x0.45x0.45x1.10 = 0.41 cum			cum	0.41	60.28	27.17				
(ii)		CC 1:2:4 as per CSR Chapter 10										
		2x0.45x0.45x1.10 = 0.41 cum			cum	0.41	2795.69	1146.23				
I b		Materials										
(i)		Galvanized Corrugated sheet 3mm thick 4.30mtr long @ 11.35kg per mtr including overlapping of 0.30mtr			kg	48.81	58.02	2831.96				
(ii)		Galvanized Channel post 150x75x5mm 1.80mtr long 2nos. @ 10.96kg per mtr			kg	39.46	50.64	1998.25				
(iii)		Galvanized Channel spacer 150x75x5mm 0.33mtr long 2nos. @ 10.96kg per mtr			kg	7.23	50.64	366.13				
(iv)		Nut, Bolts and Washers			kg	7.50	84.40	633.00				
		Total - I						5829.34				
		Add contractor's profit @ 10% i.e. on Rs. 5829.34						582.93				
		Add Labour cess @ 1% i.e. on Rs. 6412.27						64.12				
		Cost for	4	mtr				7649.80				
		Cost for	1	mtr				1912.45	1912.45			1912.45

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
II		Labour										
		Taking output	4	mtr								
(i)		Mate for fixing			Day	0.06	151.44	9.09				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) for fixing			Day	1.00	143.81	143.81				
(iii)		Blacksmith (1st Class) for fixing			Day	0.50	223.36	111.68				
(iv)		Welder for fabrication			Day	0.50	174.53	87.27				
(v)		Mazdoor Unskilled (Semi Skilled Lower) Helper for fabrication			Day	0.50	143.81	71.91				
		Machinery										
		Tractor Trolly			hour	0.10	250.00	25.00				
		Total - II						448.76				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 448.76						22.44				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 471.2						101.31				
		Add Labour cess @ 1% i.e. on Rs. 572.51						5.73				
		Labour for	4	mtr				578.24				
		Labour for	1	mtr				144.56	144.56	144.56		
		Cost for	1	mtr					2057.01			
		Add 10% for sub mountainous region										14.46
		Labour for	1	mtr								159.02
		Cost for	1	mtr								2071.47

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.56 b		"W" Type Metal Beam Crash Barrier Double Sided										
		"W" type metal beam crash barrier double sided comprising of 3mm thick corrugated sheet metal beam rail 70cm above road or ground level fixed on both sided on channel vertical post 150x75x5mm spaced 2mtr centre to centre 1.80mtr high, 1.1mtr below road or ground level, all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS:1367 & IS:1364, metal beam rails to be fixed on the vertical post with a spacer of channel section 150x75x5mm, 330mm long on both sides fixed firmly to ground with foundation concrete 1:2:4 of size 0.45x0.45x1.10m for vertical post complete as per approved drawings and technical clause 810 of MORT&H specifications	4	mtr								
I a		Materials for fixing										
(i)		Earthwork in excavation as per CSR Chapter 6										
		3x0.45x0.45x1.10 = 0.67 cum			cum	0.67	66.28	44.41				
(ii)		CC 1:2:4 as per CSR Chapter 10										
		3x0.45x0.45x1.10 = 0.67 cum			cum	0.67	2798.69	1873.11				
I b		Materials										
(i)		Galvanized Corrugated sheet 3mm thick 2nos. 4.30mtr long @ 11.35kg per mtr including overlapping of 0.30mtr			kg	97.61	58.02	5663.33				
(ii)		Galvanized Channel post 150x75x5mm 1.80mtr long 2nos. @ 10.96kg per mtr			kg	39.46	50.64	1998.25				
(iii)		Galvanized Channel spacer 150x75x5mm 0.33mtr long 4nos. @ 10.96kg per mtr			kg	14.47	50.64	732.76				
(iv)		Nut, Bolts and Washers			kg	15.00	84.40	1266.00				
		Total - I						9660.34				
		Add contractor's profit @ 10% i.e. on Rs. 9660.34						966.03				
		Add Labour cess @ 1% i.e. on Rs. 10626.37						106.26				
		Cost for	4	mtr				12650.16				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 mtr				3162.54	3162.54			3162.54
II		Labour								
		Taking output 4 mtr								
(i)		Mate for fixing	Day	0.11	151.44	16.66				
(ii)		Mazdoor Unskilled (Semi Skilled Lower) for fixing	Day	1.75	143.81	251.67				
(iii)		Blacksmith (1st Class) for fixing	Day	0.88	223.36	196.56				
(iv)		Welder for fabrication	Day	0.88	174.53	153.59				
(v)		Mazdoor Unskilled (Semi Skilled Lower) Helper for fabrication	Day	0.88	143.81	126.55				
		Machinery								
		Tractor Trolly	hour	0.18	250.00	45.00				
		Total - II				790.03				
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 790.03				39.50				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 829.53				178.35				
		Add Labour cess @ 1% i.e. on Rs. 1007.88				10.08				
		Labour for 4 mtr				1017.96				
		Labour for 1 mtr				254.49	254.49	254.49		
		Cost for 1 mtr					3417.03			
		Add 10% for sub mountainous region								25.45
		Labour for 1 mtr								279.94
		Cost for 1 mtr								3442.48

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.57		Road Marking with Thermoplastic Compound								
		Road marking with hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads @ 0.25kg per sqm area as per IRC:35 1997 complete as per technical clause 803 of MORT&H specifications	1	sqm						
I		Materials								
(i)		Hot applied thermoplastic compound @ 5kg per sqm		kg	5.00	91.00	455.00			
(ii)		Reflectorising glass beads @ 0.25kg per sqm		kg	0.25	100.10	25.03			
		Total - I					480.03			
		Add contractor's profit @ 10% i.e. on Rs. 480.03					48.00			
		Add Labour cess @ 1% i.e. on Rs. 528.03					5.28			
		Cost for	1	sqm			533.31			
		Cost for	1	sqm			533.31		533.31	533.31
II		Labour								
		Taking output	150	sqm						
(i)		Mate		Day	0.20	151.44	30.29			
(ii)		Mazdoor Unskilled (Semi Skilled Lower)		Day	4.00	143.81	575.24			
		Machinery								
		Road Marking Machine		hour	8.00	90.00	720.00			
		Tractor Trolly		hour	8.00	250.00	2000.00			
		Total - II					3325.53			
		Sundries such as traffic management during construction, watch and ward, minor T&P, rehandling of materials etc. @ 5% i.e. on Rs. 3325.53					166.28			

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 3491.81				750.74				
		Add Labour cess @ 1% i.e. on Rs. 4242.55				42.43				
		Labour for 150 sqm				4284.98				
		Labour for 1 sqm				28.57	28.57		28.57	
		Cost for 1 sqm					561.88			
		Add 10% for sub mountainous region								2.86
		Labour for 1 sqm								31.43
		Cost for 1 sqm								564.74

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.58		Plain Cement Concrete Pavement								
		Construction of unreinforced plain cement concrete pavement in M-30 mix design over a prepared sub base with cement contents 350kg per cum and coarse and fine aggregates conforming to IS:383 mixed with concrete mixer using weigh batcher, laid in position over 125 micron thick polythene sheet, compacted with needle vibrator, screed vibrator and plate vibrator, dewatering of free water with vaccum pump, finishing the surface with power floater, including provision of contraction and expansion joints as required, finishing to required lines and grades as per drawings and technical clause 1501 of MORD specifications	75	cum						
		Taking output = 100x3.75x0.20m = 75.00cum								
I a		Material								
(i)		Centring and shuttering for concrete as per CSR Chapter 9								
		2x100.00x0.20 = 40.00 sqm								
		6x3.75x0.20 = 4.50 sqm								
		Total = 44.50 sqm	sqm	44.50	117.23	5216.74				
		Total-I a				5216.74				
I b		Material								
(ii)		Cement	tonne	26.25	5245.35	137690.44				
(iii)		Crushed stone aggregates	cum	67.50	435.24	29378.70				
(iv)		Coarse Sand	cum	33.75	280.73	9474.64				
(v)		Polythene Sheet 125 micron thick	sqm	412.50	15.45	6373.13				
(vi)		Joint filler board 20mm thick	sqm	3.00	350.00	1050.00				
		Total-I b				183966.91				
		Add contractor's profit @ 10% i.e. on Rs. 183966.91				18396.69				
		Add Labour cess @ 1% i.e. on Rs. 202363.6				2023.64				

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 75 cum				209603.98				
		Cost for 1 cum				2794.72	2794.72			2794.72
II		Labour								
		Taking output 75 cum								
(i)		Mate	Day	9.00	151.44	1362.96				
(ii)		Mason 1st class	Day	5.00	223.36	1116.80				
(iii)		Mason 2nd class	Day	5.00	190.00	950.00				
(iv)		Mazdoor Unskilled (Semi Skilled Lower)	Day	139.00	143.81	19989.59				
(v)		Mazdoor skilled (Skilled Upper)	Day	6.00	164.69	988.14				
		Machinery								
(vi)		Concrete Mixer with weigh batcher	hour	36.00	225.00	8100.00				
(vii)		Needle Vibrator	hour	9.00	45.00	405.00				
(viii)		Screed Vibrator	hour	9.00	45.00	405.00				
(ix)		Plate Vibrator	hour	9.00	45.00	405.00				
(x)		Water Tanker	hour	5.00	250.00	1250.00				
(xi)		Air Compressor	hour	2.00	309.00	618.00				
(xii)		Vaccum Pump with mat & Power Floater	hour	60.00	403.50	24210.00				
		Total - II				59800.49				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 59800.49				1196.01				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 60996.5				13114.25				
		Add Labour cess @ 1% i.e. on Rs. 74110.75				741.11				
		Labour for 75 cum				74851.86				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Labour for	1	cum				998.02	998.02		998.02	
		Cost for	1	cum					3792.74			
		Add 10% for sub mountainous region										99.80
		Labour for	1	cum								1097.82
		Cost for	1	cum								3892.54

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
24.59	a	Fibre Board Expansion Joints										
		Providing and fixing 20mm thick compressible fibre board in expansion joints complete as per drawings and technical clause 2605 of MORT&H specifications	300	mtr per cm depth								
		Taking output = 12 mtr x 25 cm = 300 mtr per cm depth										
I		Material										
(i)		Joint filler fibre board 20mm thick 12mtr long 25cm deep			sqm	3.00	350.00	1050.00				
		Total-I						1050.00				
		Add contractor's profit @ 10% i.e. on Rs. 1050						105.00				
		Add Labour cess @ 1% i.e. on Rs. 1155						11.55				
		Cost for	300	mtr per cm depth				1166.55				
		Cost for	1	mtr per cm depth				3.89	3.89			3.89
II		Labour										
		Taking output	300	mtr per cm depth								
(i)		Mate			Day	0.01	151.44	1.51				
(iv)		Mazdoor Unskilled (Semi Skilled Lower)			Day	0.10	143.81	14.38				
(v)		Mazdoor skilled (Skilled Upper)			Day	0.10	164.69	16.47				
		Total - II						32.36				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 32.36						0.65				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 33.01						7.10				
		Add Labour cess @ 1% i.e. on Rs. 40.11						0.40				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Labour for	300	mtr per cm depth				40.51				
		Labour for	1	mtr per cm depth				0.14	0.14		0.14	
		Cost for	1	mtr per cm depth					4.03			
		Add 10% for sub mountainous region										0.01
		Labour for	1	mtr per cm depth								0.15
		Cost for	1	mtr per cm depth								4.04

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.59 b		Joint Sealing Compound								
		Providing and filling joint sealing compound with coarse sand and 6 percent bitumen by weight complete as per drawings and technical clause 2605 of MORT&H specifications	120	mtr per cm depth						
		Taking output = 12 mtr long x 10 cm wide x 1 cm deep = 120 mtr per cm depth								
I		Material								
(i)		Sand at Site of Work		cum	0.012	280.73	3.37			
(i)		Bitumen VG-10 at Site of Work		tonne	0.001	33250.01	33.25			
		Total-I				36.62				
		Add contractor's profit @ 10% i.e. on Rs. 3.37				3.66				
		Add Labour cess @ 1% i.e. on Rs. 40.28				0.40				
		Cost for	120	mtr per cm depth		40.68				
		Cost for	1	mtr per cm depth		0.34	0.34			0.34
II		Labour								
		Taking output	120	mtr per cm depth						
(i)		Mate		Day	0.02	151.44	3.03			
(iv)		Mazdoor Unskilled (Semi Skilled Lower)		Day	0.50	143.81	71.91			
(v)		Mazdoor skilled (Skilled Upper)		Day	0.10	164.69	16.47			
		Total - II				91.41				
		Sundries such as traffic management during construction, watch and ward, minor T&P, water charges etc. @ 2% i.e. on Rs. 91.41				1.83				
		Add contractor's profit & Overhead Charges @ 21.5% i.e. on Rs. 93.24				20.05				

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
		Add Labour cess @ 1% i.e. on Rs. 113.29						1.13				
		Labour for	120	mtr per cm depth				114.42				
		Labour for	1	mtr per cm depth				0.95	0.95		0.95	
		Cost for	1	mtr per cm depth					1.29			
		Add 10% for sub mountainous region										0.10
		Labour for	1	mtr per cm depth								1.05
		Cost for	1	mtr per cm depth								1.39

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.60	a	Rumble Strips with thermoplastic road marking								
		Providing and making rumble strips 15-20mm high at centre, 250mm wide placed at 1m centre to centre over freshly laid bituminous layer by using close graded premix surfacing material type B at approved locations to control speed and marked with 100mm wide white strips of thermoplastic road marking paint. The close graded premix surfacing material type B shall conform to technical clause 512 and thermoplastic road marking paint shall conform to technical clause 803 of MORT&H specifications	105	mtr						
		Taking output = 15 strips x 7.00mtr long = 105.00mtr								
A		Labour Rate								
(i)		Close graded premix surfacing material type B as per CSR 24.26b								
		15x7.00x0.25 = 26.25 sqm		sqm	26.25	22.65	594.56			
(ii)		Thermoplastic road marking paint as per CSR 24.57								
		15x7.00x0.10 = 10.50 sqm		sqm	10.50	28.57	299.99			
		Cost for	105	mtr			894.55			
		Cost for	1	mtr			8.52	8.52		8.52
		Add 10% for sub mountainous region								0.85
		Cost for	1	mtr						9.37
B		Through Rate								
(i)		Close graded premix surfacing material type B as per CSR 24.26b								
		15x7.00x0.25 = 26.25 sqm		sqm	26.25	106.69	2800.61			
(ii)		Thermoplastic road marking paint as per CSR 24.57								
		15x7.00x0.10 = 10.50 sqm		sqm	10.50	561.88	5899.74			
		Cost for	105	mtr			8700.35			
		Cost for	1	mtr			82.86	82.86		82.86
		Add 10% for sub mountainous region								8.29
		Cost for	1	mtr						91.15

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
24.60	b	Rumble Strips without thermoplastic road marking								
		Providing and making rumble strips 15-20mm high at centre, 250mm wide placed at 1m centre to centre over freshly laid bituminous layer by using close graded premix surfacing material type B at approved locations to control speed. The close graded premix surfacing material type B shall conform to technical clause 512 of MORT&H specifications	105	mtr						
		Taking output = 15 strips x 7.00mtr long = 105.00mtr								
A		Labour Rate								
(i)		Close graded premix surfacing material type B as per CSR 24.26b								
		15x7.00x0.25 = 26.25 sqm		sqm	26.25	22.65	594.56			
		Cost for	105	mtr			594.56			
		Cost for	1	mtr			5.66	5.66		5.66
		Add 10% for sub mountainous region								0.57
		Cost for	1	mtr						6.23
B		Through Rate								
(i)		Close graded premix surfacing material type B as per CSR 24.26b								
		15x7.00x0.25 = 26.25 sqm		sqm	26.25	106.69	2800.61			
		Cost for	105	mtr			2800.61			
		Cost for	1	mtr			26.67	26.67		26.67
		Add 10% for sub mountainous region								2.67
		Cost for	1	mtr						29.34

Certified :-

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11

- 1 That labour / material rates taken in the detailed analysis are as per rates recommended by sub committee No 3. formed by Cheif Engineer (HQ) PWD B&R Patiala & for Machinery rates provided are as per MORT&H Standard Data Book by adding WPI.
- 2 That the rates not provided by sub committee No. 3 has been examined/ surveyed by our committee in the market and are provided in detailed analysis accordingly.
- 3 That the calculations are corrected up to two decimals.

Er.Deepak Goel (Member)
Executive Engineer,
Construction Division,
PWD (B&R) Br. Patiala.

Er. V.S. Dhindsa
(Convener Sub Committee No.6)
Superintending Engineer,
Construction Circle No.1,
PWD (B&R) Br. Patiala

Er.Jiwan Lal Garg (Member)
Executive Engineer,
World Bank Division,
PWD (B&R) Br. Sangrur

Er.Bankesh Sharma (Member)
Sub Divisional Engineer,
Construction Sub Division,
PWD (B&R) Br. Nabha