

D. P. R. FOR DEVELOPMENT OF NANDED CITY ROADS UNDER JNNURM

RATE ANALYSIS

Sr No	Description	Unit	Quantity	Rate Rs	Cost Rs
Sec 1	Preliminary Works				
1.01	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.				
	By Mechanical Means				
	In area of light jungle				
	a) Labour				
	Mate	day	0.160	130.00	20.8
	Mazdoor	day	4.000	120.00	480.0
	b) Machinery				
	Dozer 80 HP with attachment for removal of trees & stumps	hour	10.000	1423.00	14230
	Tractor-trolley	hour	1.000	234.00	234.00
	c) Contractor's profit @ on (a+b)				1496.48
	Rate per Hectare = a+b+c				16461.28
				<i>say</i>	<u>16461</u>
1.02	Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001				
	<i>Unit = each</i>				
	<i>Taking output = one steel portable barricade</i>				
	a) Labour				
	Mate	day	0.020	130.00	2.60
	Mazdoor	day	0.250	120.00	30.00
	Painter	day	0.500	130.00	65.00
	Welder	day	0.250	130.00	32.50
	b) Material				
	Angle iron 45 x 45 x 5 mm	kg	25.000	30.00	750.00
	MS sheet 300 mm wide, 2.5 m long and 2.6 mm thick	kg	15.000	30.00	450.00
	Paint	litre	0.500	105.00	52.50
	Add 2 per cent of cost of steel for welding consumables, nuts & bolts and drilling holes				1.10
	c) Contractor's profit @ input on (a+b)				138.37
	Rate per barricade = a+b+c				1522.07
				<i>say</i>	<u>1522</u>
1.03	Supplying and fixing the necessary sign boards as per site requirements and as directed by Engineer.				
a)	Information sign boards				
	As per DSR 2005-06(Page No.183 Sr.No. 772)	Nos			10000
	Add Corporation Charges @5%				500
	Total				<u>10500</u>

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Sr No	Description	Unit	Quantity	Rate Rs	Cost Rs
b)	Cautionary sign board				
	As per DSR 2005-06(Page No.180 Sr.No. 766)	Nos			3500
	Add Corporation Charges @5%				175
	Total				<u>3675</u>
c)	Mandatory and directional sign boards				
	As per DSR 2005-06(Page No.181 Sr.No. 769)	Nos			3275
	Add Corporation Charges @5%				164
	Total				<u>3439</u>
1.03 d)	Road Delineators				
	Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings.				
	<i>Unit = Each</i>				
	Taking output= 30 Nos.				
	a) Labour				
	Mate	day	0.040	130.00	5.20
	Mazdoor for fixing	day	1.000	120.00	120.00
	b) Material		30.000	550.00	16500.00
	Cost of approved type of delineators from ISI certified firm as per the standard drawing given in IRC - 79	each			1650.00
	Add 10 per cent cost of material for installation				831.26
	c) Contractor's profit @ 10 % on (a+b)				1910.65
	Cost for 30 Nos. delineators = (a+b+ c)				21017.11
	Rate per delineators = (a+b+c) /30			<i>say</i>	<u>701</u>
1.03 e)	Traffic Cone				
	Provision of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, placed at 1.5 m interval, all as per BS 873				
	<i>Unit = Running metre</i>				
	Taking output = 68 Nos.				
	a) Labour				
	Mate	day	0.020	130.00	2.60
	Mazdoor	day	0.500	120.00	60.00
	b) Material				
	Traffic cones with 150 mm reflective sleeve	each	68.000	600.00	40800.00
	c) Machinery				
	Tractor-trolley	hour	0.100	234.00	23.40
	d) Contractor's profit @ input on (a+b+c)				4088.60
	Cost for 68 Nos. = a+b+c+d				44974.60
	Rate per metre = (a+b+c+d)/68			<i>say</i>	<u>661</u>

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Sr No	Description	Unit	Quantity	Rate Rs	Cost Rs
1.04 a)	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres				
	<i>Unit = cum</i>				
	<i>Taking output = 1.25 cum</i>				
	<i>Brick ,Masonry</i>				
	In cement mortar				
	a) Labour				
	Mate	day	0.030	130.00	3.90
	Mazdoor for dismantling, loading and unloading	day	0.750	120.00	90.00
	b) Machinery				
	Tractor-trolley	hour	0.270	234.00	63.18
	c) Contractor's profit @ input on (a+b)				15.71
	Cost for 1.25 cum = a+b+c				172.79
	Rate per cum = (a+b+c)/ 1.25				138.23
				<i>say</i>	<u>138</u>
1.04 b)	Dismantling of flexible pavements , Cement Concrete Structure and Footpath and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately				
	<i>Unit = cum</i>				
	<i>Taking output = 1 cum</i>				
	By Mechanical Means				
	Bituminous course				
	a) Labour				
	Mate	day	0.010	130.00	1.30
	Mazdoor	day	0.300	120.00	36.00
	b) Machinery				
	Tractor-trolley	hour	0.380	234.00	88.92
	Farm tractor with ripper @ 60 cum per hour	hour	0.017	252.00	4.28
	c) Contractor's profit @ input on (a+b)				13.05
	Rate per cum = a+b+c				143.55
				<i>say</i>	<u>144</u>
1.05	Taking one 100 mm bore hole at each foundation location of ROB proper and one each in approaches on each side by using double tube boring machine and				
	a) Boring in all strata excluding hard rock.				
	As per DSR 2005-06(Page No.213 Sr.No. 16)	Rmt			1404
	Add Corporation Charges @5%				70.2
	Total				<u>1474</u>
	b) Drilling in hard rock.				
	As per DSR 2005-06(Page No.213 Sr.No. 18)	Rmt			1857
	Add Corporation Charges @5%				92.85
	Total				<u>1950</u>