

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

Sr No	Description	Unit	Quantity	Rate Rs	Cost Rs
Sec 1	Site Clearance				
1.1	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>16461.00</u>
1.2	Cutting of trees of all girth above 300 mm including cutting of trunks, branches, uprooting and removal of all materials and stacking within the Row and filling depressions/pits by earth etc. complete. including liasoning with concerned authorities for obtaining Permission				
	1) girth 300 mm to 600 mm				
	As per DSR 2005-06 (page no.144, Sr.No. 637)	Nos			47
	Add corporation charges @ 5%				2.35
	Rate per No.				49
	2) girth above 600 mm to 900 mm				
	As per DSR 2005-06 (page no.144, Sr.No. 638)	Nos			96
	Add corporation charges @ 5%				4.8
	Rate per No.				101
	3) girth above 900 mm to 1800 mm				
	As per DSR 2005-06 (page no.144, Sr.No. 639)	Nos			232
	Add corporation charges @ 5%				11.6
	Rate per No.				244
1.3	Transplantation of existing trees of girth of all dia. including uprooting and shifting of the tree and placing in pits of suitable size and after transplanting, removal of excavated earth to desired location, filling the pit with red earth, manure, watering etc complete with all leads, lifts, including maintenance for 3 years. The item also includes back filling of the trench taken for exposing the root system of the tree proposed to be transplanted etc. complete as directed by Engineer. maintainace for one year				
	Trimming				
	Male Collies	Nos.	10	120	1200
	Supervisor	Nos.	1	130	130
	Shifting & stacking of cutwood				
	1) Dumper/Tipper -1 No.	Hrs.	8	200	1600

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	Uprooting & Shifting				
	JCB for loosening & removing	Hrs.	8	800	6400
	Increase in fuel Charges				
	Crane-10/12 T capacity-1 No.	Hrs.	8	600	4800
	Transplantation				
	Filling with mixture of red earth-manure				
	20 x1.50 m.x 1.50 m x 1.50 m= 80 Cum. (Including wastage)				
	Say 75 % Red earth and 25 % Manure				
	Red Earth	Cum	60	300	18000
	Mannure	Cum	20	350	7000
	BSES Powder for Anti-termite	Kg,	14	20	280
	Total Cost for 20 trees.				39410
	Cost per tree				1970.5
	Add 10 %Contractor Profit				197.05
	Total Rate per Tree			Say	<u>2168</u>
1.4	Supplying, stacking & Planting of approved Trees of at least 1.0 m. height above GL in excavated size 0.6m dia holes , at the site shown by the Engineer, backfilling the pit by putting the manure & soil and watering & maintaining for 3 years, including disposing the excavated earth etc. complete as directed by Engineer..				
	<i>Unit = Each</i>				
	<i>Taking output = 10 trees</i>				
	a) Labour				
	Mate	day	1.700	130.00	221.00
	Mazdoor for planting	day	2.000	120.00	240.00
	Mazdoor for maintenance for one year	day	15.000	120.00	1800.00
	b) Machinery				
	Water tanker 6 KL capacity	hour	2.000	200.00	400.00
	c) Material				
	Sapling 2 m high 25 mm dia	each	10.000	40.00	400.00
	Farm yard manure	cum	0.940	250.00	235.00
	Pesticide	kg	0.500	172.00	86.00
	Cost of water	KL	12.000	100.00	1200.00
	d) Contractor's profit @ input on (a+b+c)				458.20
	Cost for 10 trees = a+b+c+d				5040.20
	Rate per trees = (a+b+c+d)/10				504.02
				say	<u>504.00</u>
1.5a)	Dismantling of flexible pavements 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
				say	<u>144.00</u>

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Sr No	Description	Unit	Quantity	Rate Rs	Cost Rs
	Dismantling of Guard Rails and fencing				
1.5b)	Dismantling guard rails and fencing by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metres, stacking serviceable materials and unserviceable materials separately.				
	<i>Unit = running metre</i>				
	<i>Taking output = 1 metre</i>				
	a) Labour				
	Mate	day	0.006	130.00	0.78
	Mazdoor including loading and unloading	day	0.070	120.00	8.40
	b) Contractor's profit @ input on (a)				0.92
	Rate per metre = a+b				10.10
				<i>say</i>	<u>10.00</u>
1.5c)	Dismantling existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, 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 ,Masonary</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>138.00</u>
	Shifting and relocating of telephone lines / electricals poles and lines				
1.5d)	Shifting and relocation of telephone / electricals poles including excavation and dismantling of foundation of concrete and lines under supervision of concerned department disposal with all lifts and up to a lead 1000 metres meters and stacking the serviceable and unserviceable material separately				
	<i>Unit = each</i>				
	<i>Taking output = 30 nos</i>				
	a) Labour				
	Mate	day	0.480	130.00	62.40
	Mazdoor	day	10.000	120.00	1200.00
	Electrician	day	2.000	200.00	400.00
	b) Machinery				
	Tractor - trolley	hour	1.500	234.00	351.00
	c) Contractor's profit @ input on (a+b)				201.34
	Cost for 30 poles = a+b+c				2214.74
	Rate per cum = (a+b+c)/30				73.82
				<i>say</i>	<u>74.00</u>
1.5e)	Dismantling CI Water pipe line 600 mm dia including disposal with all lifts and lead upto 1000 meters and staking of serviceable material and unserviceable material separately under supervision of concerned department				
	<i>Unit =Running Meter</i>				
	<i>Taking output =10 meters</i>				

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Sr No	Description	Unit	Quantity	Rate Rs	Cost Rs
	a) Labour				
	Mate	day	0.090	130.00	11.70
	Mazdoor for dismantling, loading and unloading	day	2.000	120.00	240.00
	Plumber	day	0.250	130.00	32.50
	b) Machinery				
	Truck 10 tonne capacity	hour	0.250	200.00	50.00
	Light crane 3 tonne capacity	hour	0.500	230.00	115.00
	c) Contractor's profit @ input on (a+b)				44.92
	Cost for 10 meter = a+b+c				494.12
	Rate per cum = (a+b+c)/ 10				49.41
				<i>say</i>	<u>49.00</u>
1.6	Lowering of domestic water pipe line , Cross etc.with fixing and position the same including payment of deposits, supervision charges, shifting charges etc.as per the requirement of concerned service provider or as directed by the Engineer.				
	<i>Unit =Nos</i>				
	<i>Taking output =Per Nos</i>				
	a) Labour				
	Fitter	hour	0.25	130.00	32.50
	Helper	hour	0.25	120.00	30.00
	b) Material				
	GI Pipe 15 mm dia	Rm	3.00	75.00	225.00
	GI Elbow 15 mm dia	Nos	3.00	7.00	21.00
	GI union 15 mm dia	Nos	1.00	6.00	6.00
	GI Coupling 15 mm dia	Nos	2.00	15.00	30.00
	Ferrul	Nos	1.00	50.00	50.00
	Cutting and Threading etc	Nos	1.00	10.00	10.00
	c) Add Contractors Profit @10% on (a)				4.25
	Cost Per Nos (a+b+c)				408.75
	Rate per Nos			<i>say</i>	<u>409.00</u>