

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

RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec-1	Site Clearance		
1	1.1	Clearing & grubbing road land including uprooting all vegetation, grass, bush shrubs, saplings and trees of girth upto 300 mm , remaoval of stumps of trees of girth of all sizes including removing stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials as directed by engineer with all leads and lifts etc. complete		
		Ref: Sr.No.1.1 of RA as per MORT&H	Ha	16461
2	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)		
		Ref: Sr.No.1.2 of RA as per MORT&H	Nos	49
		2) girth above 600 mm to 900 mm		
		As per DSR 2005-06 (page no.144, Sr.No. 638)	Nos	101
		Ref: Sr.No.1.2 of RA as per MORT&H		
		3) girth above 900 mm to 1800 mm		
		As per DSR 2005-06 (page no.144, Sr.No. 639)	Nos	244
		Ref: Sr.No.1.2 of RA as per MORT&H		
3	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, manuaire, 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 route system of the tree proposed to be transplanted etc. complete as directed by Engineer		
		Ref: 1.3 of RA as per MORT&H	Nos	2168
4	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 manuaire & soil and watering & maintaining for 3 years, including disposing the excavated earth etc. complete as directed by Engineer..		
		Ref: Sr.No.1.4 of RA as per MORT&H	Nos	504

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Sr. No.	Item No.	Description	Unit	Rate in Rs
5	1.5	Excavation and Dismantling of structures on roadway		
		a) Excavation/ dismantling in road carriageway , footpaths, bituminious surface of any type or concrete, plain or reinforced, paver blocks, kerb, stone water table, set stone, water enternces etc. upto any depth including all lifts and depositing excavated material with all leads and lift, including cutting of reinforcement by manually or using pneumatic jack hammer etc. complete as directed by Engineer..		
	a)	Ref: Sr.No.1.5a) of RA as per MORT&H	Cum	144
		b) Dismantling of guard rail, fencing of any height including sorting out the dismantled material, disposal at dumping ground of unserviceable material with all leads and lifts etc. complete as directed by Engineer..		
		(i)MS Pipes, Guard rails and Fencing		
		Ref: Sr.No.1.5b) of RA as per MORT&H	RM	10
		c) Dismantling existing masonry/ concrete structures (above and below G.L.)and carting away serviceable/ unserviceable materials, and stacking the same, at dumping ground with all leads and lifts etc. complete as directed by Engineer.		
		Ref: Sr.No.1.5c) of RA as per MORT&H	Sqm	138
		d) Shifting and relocating of essential utitlies, street poles, signals, Electric Transformers, road sign boards, Elecric poles and telephone poles including taking necessary permission from the service providers / authorities including payment of necessary deposits and supervision charges ,shifting charges etc. complete as directed by Engineer..		
		Ref:Sr.No.1.5d) of RA as per MORT&H	No	74
		e) Dismantalling of essential utitlies CI water pipe line 600 mm dia including taking necessary permission from the service providers / authorities including payment of necessary deposits and supervision charges ,shifting charges etc. complete as directed by Engineer.		
		Ref: Sr.No.1.5e) of RA as per MORT&H	RM	49
		f) Dismantling of Bus Shelter	Nos	3000
		Lumpsum		
6	1.6	Lowering of domestic water pipe line, cross connections etc. with fixing and postioning the same including payment of deposits, supervision charges, shifting charges etc. as per the requirement of conerned service provider or as directed by the Engineer.		
		Ref: Sr.No. 1.6 of RA as per MORT&H	Nos	409

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RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec-2	Earthwork		
1	2.1	Earthwork in excavation by mechanical means for roadway and for the foundation of structure in all types of strata other than rock including dressing section to the required grade, camber, side slopes spreading for embankment or stacking including shoring ,timbering ,dewatering and conveying the excavated materials and dumping in designated areas for use in the work as directed by engineer with all leads and lifts .		
		Ref: Sr.No. 2.1 of RA as per MORT&H	Cum	40
2	2.2.	Eartwork in Excavation for roadway and foundation of structure in rock by wedging / chiselling / controlled blasting or line drilling and mechanical means including dressing section to the required grade, camber, side slopes, spreading for embankment or stacking, conveying the excavated materials and dumping in designated areas for use in the work as directed by engineer with all leads and lifts .		
		As per DSR 2005-06 (page no.146, Sr.No. 648)	Cum	228
		Ref: Sr.No. 2.2 of RA as per MORT&H		
3	2.3	Earth work in embankment with approved material Obtained from the excavated portion , laying in layers not exceeding 250 mm loose breaking clods, dressing to the required lines, curves, grades and watering to OMC and compacting to 95 % modified proctor density with vibratory roller, having minimum 80-100 KN static weight with all leads and lifts etc. complete as directed by Engineer.		
		As per DSR 2005-06 (page no.148, Sr.No. 659)	cum	33
		Ref: Sr.No. 2.3 of RA as per MORT&H		
4	2.4	Leveling, watering and rolling the prepared subgrade with power roller weighing not less than 8 to 10 Tonnes and preparing the ground to required level, grade and camber etc. complete as directed by Engineer.		
		As per DSR 2005-06 (page no.152, Sr.No. 638)	sqm	6
		Ref: Sr.No. 2.4 of RA as per MORT&H		
5	2.5	Earth work in embankment for subgrade and hard shoulders by using approved material obtained from contractor's own land or borrow area outside ROW having 4 days soaked CBR equal to or more than 10%, laying in layers not exceeding 250 mm loose, breaking clods and dressing to the required lines, curve grades, and watering to OMC and compacting to 98 % modified proctor density with CBR equal to more than 8% rolling with vibratory roller having minimum 80-100KN static weight including all leads and lifts etc. complete as directed by Engineer..		
		Ref: Sr.No. 2.4 of RA as per MORT&H	Cum	86

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Sr. No.	Item No.	Description	Unit	Rate in Rs
6	2.6	Removal of unsuitable materials (debris) in the embankment foundation and /or subgrade and disposing the excavated material as directed by the engineer including loading & unloading with all leads and lifts complete.		
		As per DSR 2005-06 (page no.149, Sr No. 665)and Sr.No.2.6 of RA as per MORT&H		
		Upto 3 kms	Cum	32.00
		Beyond 3 kms	Cum	46.00

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RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec 3	Drainage and Protective Works		
1	3.1	Earthwork in excavation by mechanical means for roadway and for the foundation of structure in all types of strata other than rock including dressing section to the required grade, camber, side slopes spreading for embankment or stacking including shoring ,timbering ,dewatering and conveying the excavated materials and dumping in designated areas for use in the work as directed by engineer with all leads and lifts		
		Ref: Sr.No. 2.1 of RA as per MORT&H	Cum	40
2	3.2	Eartwork in Excavation for roadway and foundation of structure in rock by wedging / chiselling / controlled blasting or line drilling and mechanical means including dressing section to the required grade, camber, side slopes, spreading for embankment or stacking, conveying the excavated materials and dumping in designated areas for use in the work as directed by engineer with all leads and lifts .		
		As per DSR 2005-06 (page no.146, Sr.No. 648)	Cum	228
		Ref: Sr.No. 2.2 of RA as per MORT&H		
3	3.3 i)	Providing rubble solling of 23 cm thick of trap stones of approved quality in bed foundation including sand packing and filling of gravel in the voids including all leads and lifts etc. complete as directed by		
		As per DSR 2005-06 (page no.164, Sr.No. 726)	Cum	205.00
		Ref: Sr.No. 3.3 I) of RA as per MORT&H		
	ii)	Providing Cushion Layer subgrade/ gravel Below rubble Soling by using approved material		
		As per DSR 2005-06 (page no.148, Sr.No.661)	Cum	86
		Ref: Sr.No. 2.4 of RA as per MORT&H		
4	3.4	Providing and laying in situ cement concrete M-15 of trap metal for foundation , bed for runner beam and bedding including bailing out water manually,formwork,compacting and curing etc. complete as directed by Engineer.		
		Ref: Sr.No. 3.4 of RA as per MORT&H	Cum	1871
5	3.5	Providing and laying in situ RCC M25 grade for Side walls , top slabs, trenches, drains,, retaining walls, toe walls, head walls with stone metal, 20 % natural or crushed sand, including necessary form work, centering, mixing with mechanical mixers, compacting vibrating , curing by sprinkling/ponding of water for 14 days and finishing as directed and including construction of weep holes as directed by the Engineer including all leads and lifts etc. complete(excluding reinforcement)		
		Ref: Sr.No. 3.5 of RA as per MORT&H	Cum	2467

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Sr. No.	Item No.	Description	Unit	Rate in Rs
6	3.6	Providing and laying MS/HYSD bars for structure including cutting, bending hooking by machine, tying in position including binding wire, spacers, chairs, cover blocks as per detailed drawing including all leads and lifts etc. complete as directed by Engineer.		
		As per DSR 2005-06 (page no.205, Sr.No. 874)	MT	34042
		Ref: Sr.No. 3.6 of RA as per MORT&H		
7	3.7	Providing and laying cement concrete kerb / divider in M-25 grade concrete as per drawing and as directed by Engineer. with all leads and lifts etc. complete.		
		Pre-cast/cast-in-situ kerb / divider		
		Ref: Sr.No. 3.7 of RA as per MORT&H	cum	2468
8	3.8	Raising or lowering any shape and size of manhole to the required level including all material, formwork, brickwork and with 16 cm thick M15 (1:2:4) c.c. coping under frames of manhole including curing etc complete as specified and as directed by Engineer.	Nos	953
		Market Rate		
9	3.9	Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting etc. complete as specified and as directed (All the pipes supplied shall confirm to relevant IS). The contractor shall also arrange to get the pipes tested in accordance with tests specified in relevent IS at contractor's cost and as directed. Testing shall be carried out in presence of Engineer. Laying of pipes shall be carried out as per relevent IS, including all leads and lifts etc. complete as directed by Engineer.	RM	216
		150 mm dia pipe		
		Market Rate		
10	3.10	Providing and fixing in the carriageway Interlocking concrete pavers unishape (monolithic single layer precast concrete blocks) of any specified colour / size & shape,with approved pattern etc. of 80 mm thick having average crushing strength of 50 N/mm2 on average thickness of 50 mm uniformly graded river sand cushioning with properly compacted with mechanical compactor with required level, grade and camber etc. complete as directed by Engineer.		
		60 mm thick paver blocks for footpath and medians		
		Market Rate	Sqm	595

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Sr. No.	Item No.	Description	Unit	Rate in Rs
11	3.11	Providing And fixing of the precast tapered water table of thickness 105 mm , 300 mm width in M35 grade concrete as detailed in drawing including laying a levelling course of M15 grade concrete slope,inclusive of form work jointing in 1:2 CM prop flush to concrete surface including curing as directed.		
		Market Rate	RM	336
12	3.12	Providing and laying required size 230mm * 300 mm RCC runner beam in M35 concrete including formwork, mixing, compacting and curing etc. complete reinforced with 12mm dia (min 4 no.) MS main bars and 6 mm dia MS rings at 15 cm c/c to be anchored in slipper slab properly with MS reinforcement as per drawing etc. complete as specified. (Steel will not be paid separately) etc. complete as directed		
		Ref: Sr.No. 3.12 of RA as per MORT&H	cum	2531
13	3.13	Providing and fixing RCC cover of any size, shape and thickness over drain/chamber with necessary heavy duty cast iron frame including all labour and material etc complete as directed by Engineer.		
		Lumpsum	Nos	1500
14	3.14	Providing and laying service ducts in position , precast RCC Pipes NP2 class including bed preparation ,cost of lifting ,loading and unloading ,jointing with collar or flush joints including cost of backfilling the trenches including all leads and lifts etc. complete.	RM	368
		250 mm dia		
		Market Rate		
15	3.15	Providing & laying 100 mm dia PVC perforated pipe median under drain including geotextile and building through kerb etc. complete as per drawing and specification (at 15 m interval in median with approximate width of 1.5 m)	RM	144
		Ref: Sr.No.3.15 of RA as per MORT&H		
16	3.16	Providing and fixing 150x100 mm non skidding precast chequered tiles 25 mm thick of approved quality in traffic island and where ever necessary over 18 mm thick C.M 1:3 including curing etc.complete as per drawing and as directed by Engineer.		
		Ref: Sr.No.3.16 of RA as per MORT&H	Sqm	244

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Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec 4	Pavement		
1	4.1a)	Providing and laying Granular Sub Base (Structural layer) Close Graded conforming to Grading II of Table 400.2 of compacted thickness of 150 mm with specified graded stone metal and sand mixed in place and laid with mechanical means spreading with motor grader and compacting with vibratory roller having minimum 80-100 Kn static weight to achieve desired density of 98% of MDD including all material , labour , machinery with all leads and lifts etc. complete.		
		Ref: Sr.No.4.1a) of RA as per MORT&H	cum	445
	4.1 b)	Providing, laying,spreading and compacting specified graded crush stone in Granular Sub Base course (drainage layer) including premixing the material in mechanical mixer laying in uniform layers of 150 mm (compacting thickness each) with paver finisher on prepared murrum surface and compacting with 10 T vibrating tandem roller to achieve the density of 98% of MDD including all material , labour , machinery with all leads and lifts etc. complete as directed by Engineer..		
		Ref: Sr.No. 4.1b) of RA as per MORT&H	cum	389
2	4.2	Providing, laying,spreading and compacting specified graded stone aggregate to Wet mix macadam in layer of not exceeding 200 mm thk compacted including premixing the material with water to O.M.C. in mechanical mixer(Pug mill) carrying of mix material by tipper to site and laying with paver finisher on prepared granular subbase and compacting with vibrating tandem roller to achieve the density of 98% of MDD including all material , labour , machinery with all leads and lifts etc. complete as directed by Engineer.		
		Ref: Sr.No 4.2 of RA as per MORT&H	Cum	484
3	4.3	Providing and applying primer coat using bituminous emulsion complying to IS:8887 over prepared surface of granular base with emulsion at a temperature between 20 - 60 deg. C and applying a uniform coat with the aid of self propelled bitumen pressure spraying bar with nozzles of constant volume of pressure system @10Kg/10Sqm including all material , labour , machinery with all leads and lifts etc. complete.		
		Ref: Sr.No 4.3 of RA as per MORT&H	sqm	31
4	4.4	Providing and applying tack coat by using bituminous emulsion complying to IS: 8887 over prepared surface preheated to a temperature between 20 - 70 deg. C and applying a uniform coat with the aid of self propelled bitumen pressure sprayer with self heating arrangement and spraying bar with nozzles of constant volume or pressure system at the rate of 3Kg/10Sqm on primed / blacktop surface and curing etc. including all material, labour,machinery, with all leads and lifts etc. complete.		
		Ref:Sr.No.4.4 of RA as per MORT&H	sqm	16

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Sr. No.	Item No.	Description	Unit	Rate in Rs
5	4.5	Providing and laying bituminous macadam of compacted thickness of maximum 100 mm with 3.5% bitumen by weight of total mix 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction		
		Ref: Sr.No. 4.5 of RA as per MORT&H	cum	3092
6	4.6	Providing and laying Dense Bituminous macadam in a single layer of 50mm to 100 mm compacted thickness on prepared surface using 30-40 grade bitumen @ 4.5% of bitumen by weight of mix including providing necessary aggregates with specified gradation mixing with mechanical means in hot mix plant of suitable capacity of batch mix type and electronically controlled mixing of the specified temperature, transporting and laying the mix with self propelled paver finisher with electronic sensor device and initial compaction with minimum 80 - 100 KN static weight vibratory roller/pneumatic tyred roller having minimum 150 – 250 KN weight having a tyre pressure of atleast 0.7 MPa and finished with minimum 60 – 80 KN weight smooth wheeled tandem roller to achieve desired density including all material, labour, machinery with all leads and lifts (excluding tack coat) complete.		
		Ref: Sr.No. 4.6 of RA as per MORT&H	cum	3922

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RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
7	4.7	Providing and laying Bituminous Concrete in a single layer of 25mm to 50 mm compacted thickness on prepared surface using bitumen of grade approved by the engineer 30-40 grade @ 5.5% of bitumen by weight of mix including providing necessary aggregates with specified gradation mixing with mechanical means in hot mix plant of suitable capacity of batch mix type and electronically controlled mixing to the specified temperature, transporting and laying the mix with self propelled paver finisher with electronic sensor device in full width and initial compaction with minimum 80 - 100 KN static weight smooth wheeled roller followed by intermediate rolling with minimum 80 - 100 KN static weight vibratory roller / pneumatic tyred roller having minimum 150 - 250 KN weight having a tyre pressure of atleast 0.7 MPa and finished with minimum 60 - 80 KN weight smooth wheeled tandem roller to achieve desired density including all material, labour, machinery with all leads and lifts etc. complete (excluding tack coat) and including cement filler @2% by weight of mix.		
		Ref:Sr.No.4.7 of RA as per MORT&H	Cum	4711
8	4.8	Providing, laying 20 mm thick Mix seal surfacing type A type as renewal coat for maintainance of the existing road surface during construction including supplying of all materials , clearing the base, heating the bitumen and aggregates and rolling with power roller 8-10 toone using 30/40 grade bitumen		
		As per DSR 2005-06 (page no.168, Sr. No. 741)and Sr.No.4.8 RA as per MORT&H	Sqm	80
		Ref:Sr.No.4.8 of RA as per MORT&H		
9	4.9	Providing and laying Dry Lean Concrete base including providing coarse and fine aggregate to the specified gradation using minimum cement content 150 kg/cum of concrete with OPC 43 grade cement mixing of concrete as per approved design mix using mechanised batch mix plant of appropriate capacity, transporting and laying with self propelled paver with electronic sensor device and compacting with vibratory roller of minimum 80 - 100 KN static weight to give desired compacted density and average compressive strength of 10 MPa at 7 days and curing with liquid curing compound and sprinkling water and covering with moist hessain or ponding of water for 7 days including providing construction joints, including all material, labour, machinery with all leads and lifts etc. complete as directed by Engineer.. laying by manually		
		Ref: Sr.No. 4.9 of RA as per MORT&H	cum	1043

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Sr. No.	Item No.	Description	Unit	Rate in Rs
10	4.10	Providing and laying Pavement Quality Concrete of M 35 grade obtained from approved including providing 125 micron thick impermeable plastic sheet membrane over the surface to be covered, coarse and fine aggregates of specified gradation using minimum cement content 350 kg/cum of concrete with OPC 43 grade cement, approved admixture, mixing with mechanised batch mix plant of appropriate capacity as per the design mix to the specified workability, transporting the mix with dumpers or transit mixers and laying , curing with approved resin based aluminised reflective curing compound and covering with moist hessian or ponding and sprinkling of water for a minimum period of 14 days and including providing and fixing dowels, tie bars, cutting of groves and filling the same with approved precompressed seals for joint filling and sealing all types of joints and finishing to the desired surface texture including all material, labour, machinery with all leads and lifts etc. complete as directed by Engineer.		
		a) Laying by Machine.	Cum	3046
		Ref: Sr.No. 4.10 of RA as per MORT&H		
11	4.11	Providing and laying Pavement Quality Concrete for Profile correction Coarse/ overlay of M 35 grade including roughening the existing surface by Shot blasting and providing bonding material (cement sand slurry/low viscous epoxy) providing over the surface to be covered, coarse and fine aggregates of specified gradation using minimum cement content 350 kg/cum of concrete with OPC 43 grade cement, approved admixture, mixing with mechanised batch mix plant of appropriate capacity as per the design mix to the specified workability, transporting the mix with dumpers or transit mixers and laying with self propelled/ slip form paving train of required capacity having electronic sensor device, curing with approved resin based aluminised reflective curing compound and covering with moist hessian or ponding and sprinkling of water for a minimum period of 14 days and including providing and fixing dowels, tie bars, approved precompressed seals for joint filling and sealing all types of joints and finishing to the desired surface texture including all material, labour, machinery with all leads an		
		Ref: Sr.No. 4.10 of RA as per MORT&H	Cum	3046
12	4.12	Providing and fixing in the carriageway Interlocking concrete pavers unishape (monolithic single layer precast concrete blocks) of any specified colour / size & shape,with approved pattern etc. of 80 mm thick having average crushing strength of 50 N/mm ² on average thickness of 50 mm uniformly graded river sand cushioning with properly compacted with mechanical compactor with required level, grade and camber etc. complete as directed by Engineer.		
		80 mm thick paver blocks for road	Sqm	710
		Market Rate		

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Sr. No.	Item No.	Description	Unit	Rate in Rs
13	4.13	Filling pot hole and patch repair with premix surfacing (20 mm)Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 503, back filling the pot holes with hot bituminous material as per clause 511, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2		
		Ref: Sr.No.4.13 of RA as per MORT&H	Sqm	71
14	4.14	Providing and laying slurry seal consisting of a mixture of fine aggregates, portland cement filler, bituminous emulsion 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		
		Ref: Sr.No. 4.14 of RA as per MORT&H	Sqm	26
15	4.15	Resealing of joints of 11-15mm wide with average depth of 40mm to any grade of cement concrete old pavement with hot polysulphide sealing compound, including cutting and removing existing damaged sealing compound by racking tool or mechanical means and cleaning of joints with compressed air, application of primer for receiving sealing compound etc. complete as directed by Engineer.		
		Market rate	RM	28
16	4.16	Providing and laying 15mm thick, hot mixed hot laid,with paver,premixed seal coat comprising of thin application of stone aggregate premixed with bituminous binder including supplying all materials,heating bitumen,mixing chips and bitumen,laying the premixed seal coat including compacting with power roller, etc. with all labour transport, lifts and leads etc. complete as directed by Engineer.		
		As per DSR 2005-06 (page no.163, Sr. No. 722)and Sr.No. 4.16 of RA as per MORT&H	sqm	32

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Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec 5	Cross Drainage Works		
1	5.1	Providing and laying in situ cement concrete using stone metal, natural sand blended upto 20% crushed sand and OPC 43 grade for leveling course below foundation, encasement of pipes including necessary formwork, centering, mixing in mechanised batch mix plant, compacting, curing by sprinkling/ponding of water for 7 days and finishing as directed including all leads, lifts etc. complete as directed by Engineer		
		for M15 grade concrete	Cum	1871
		Ref: Sr.No. 3.4 of RA as per MORT&H		
2	5.2	Providing dry rubble packing as a filter media behind Abutments/retaining wall and return wall complete as per drawing and Technical specification etc. complete and as directed by Engineer..		
		Ref: Sr.No. 5.2 of RA as per MORT&H	Cum	333
3	5.3	Providing and fixing 100 mm dia PVC pipe for weep holes as per drawing and specification all complete or as directed by the Engineer		
		As per DSR 2005-06 (page no.196, Sr. No.834)	Nos	58
		Ref: Sr.No. 5.3 of RA as per MORT&H		
4	5.4	providing and laying Tar paper bearing /Bitumen paper on abutment as a bearing for receiving RCC work in superstructure tar paper bearing shall be of reinforced bitumen laminated craft paper congormuing to IS 1398		
		As per DSR 2005-06 (page no.205 Sr. No.872)	Sqm	44
		Ref: Sr.No. 5.4 of RA as per MORT&H		
5	5.5	Providing and laying in position precast RCC Pipes NP4/prestressed concrete pipes for culverts on first Class bedding of granular material in single row including fixing collar with cement mortar 1:2 including excavation ,protection works , backfilling , concrete and masonry works in head walls and parapets.		
		For 1000 mm dia	RM	9165
		For 1200 mm dia	RM	10493
		Ref: Sr.No. 5.5 of RA as per MORT&H		
6	5.6	Providing and laying in position 90 cm thick flexible stone mat as per standard drawing consisting of 45 cm thick trap rubble soling 22.50 cm thick over size metal layer of 100 mm to 150 mm metal 11.30 cm thick layer of 80 mm to 100 mm over size metal and 11.20 thick layer of 40 mm size metal with blindage of hard murum for rubble soling & over size , soft murum for size metal layer consolidation 15 cm to 23 cm soling consolidation of 80 mm to 100 mm , 100 mm to 150 mm over size metal in two layers and consolidation of 40 mm size meatl layers in single layer with watering .including all leads and lifts etc. complete .		
		As per DSR 2005-06 (page no.210 Sr. No.897)	Sqm	273
		Ref: Sr.No. 5.6 of RA as per MORT&H		

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Sr. No.	Item No.	Description	Unit	Rate in Rs
7	5.7	Back filling behind abutment ,wing wall and return wall complete as per drawing and technical specification	cum	176
		Selected earth (granular Material)		
		Ref: Sr.No. 5.7 of RA as per MORT&H		
8	5.8	Providing and applying 2 coats of Coal tar epoxy paint to all concrete surface in contact with earth .	sqm	117
		Ref: Sr.No.5.8 of RA as per MORT&H		

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Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec 6	Road Markings		
1	6.1	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in centre line 100mm wide 2.0mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic Material,including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete and as per specifications, detailed drawings and as directed.	Sqm	630
		As per DSR 2005-06 (page no.185, Sr.No. 778)		
		Ref: Sr.No.6.1 of RA as per MORT&H		
2	6.2	Providing and appling two coats of synthetic enamel paint including primer to kerb as per Technical Specification as directed by the Engineer	sqm	60
		Market Rate		
3	6.3	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in edge line 150mm wide 2.0mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic Material including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/premarking, finishing and managing the traffic control etc.complete. The thermoplastic compound shall be of approved colour and shade. Marking to be done as per specifications, detailed drawings and as directed.	Sqm	630
		As per DSR 2005-06 (page no.185, Sr.No. 778)		
		Ref: Sr.No.6.2 of RA as per MORT&H		
4	6.4	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in pedestrian crossings, chevrons, directional arrows etc, 2.0mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic .Material,including dispensing drop on glass beads of approved make and as per BS 6088 at the rate 250 gms per sqm. including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete. Marking to be done as per specifications, drawings and as directed.		
		As per DSR 2005-06 (page no.185, Sr.No. 778)	Sqm	630
		Ref: Sr.No.6.3 of RA as per MORT&H		

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

RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec-7	TRAFFIC SIGNS/ROAD FURNITURE		
1	7.1	Supplying and fixing informatory road sign boards complete as per drawing and Technical specifications.		
	a)	Boards of area not exceeding 1 sq. m.		
		As per DSR 2005-06 (page no.183 Sr.No. 772)	Nos.	10500
		Ref: Sr.No.7.1 of RA as per MORT&H		
2	7.2	Supplying and fixing utility/services road sign boards complete as per drawing and Technical specifications.		
	a)	Boards of area not exceeding 1 sq. m.		
		As per DSR 2005-06 (page no.183 Sr.No. 772)	Nos.	10500
		Ref: Sr.No.7.2 of RA as per MORT&H		
3	7.3	Supplying and fixing cautionary/warning road sign boards (Equilateral triangle 900 mm side) complete as per drawing and technical specifications.(Item Code no.3)		
		As per DSR 2005-06 (page no.180 Sr.No. 766)	Nos.	3675
		Ref: Sr.No.7.3 of RA as per MORT&H		
4	7.4	Supplying and fixing regulatory/mandatory road sign boards (Circular 600 mm dia) complete as per drawing and Technical specifications.		
		As per DSR 2005-06 (page no.181 Sr.No. 769)	Nos.	3439
		Ref: Sr.No.7.4 of RA as per MORT&H		
5	7.5	Supplying and fixing in position road overhead retro-reflective informatory sign boards including fixing on overhead gantry/any other overhead structure excluding the cost of gantry and other supports but including cost of back frame complete as per drawing and specifications.		
	i)	For 12 m	Nos.	864184
		Market Road		
	ii)	For 15 m	Nos.	1050515
		Market Road		
	iii)	For 22.5 m	Nos.	1434326
		Market Road		
	iv)	For 17 m	Nos.	1152864
		Market Road		
6	7.6	Supplying and fixing in position road cantilever overhang retro-reflective informatory sign boards including fixing on specified galvoniged overhang structure including the cost of overhang and other supports but including cost of back frame complete as per drawing and specifications.		
		Market Rate	Nos.	360000

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

RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
7	7.7	Providing and fixing aluminium casted CAT EYE STUD of size 10 cm *10 cm at the base with zinc coated nalls of size 12 mm dia of 12 cm long having both side (dual direction) high impact ABC 3 nos of eyes of 16 mm dia on both side containing 7 beads each i.e . 42 beads in retro reflective etc. complete		
		As per DSR 2005-06 (page no.184 Sr.No. 775)	No	191
		Ref: Sr.No.7.7 of RA as per MORT&H		
8	7.8	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 I RC-79 and the drawings.		
		Ref: of Sr.No. 7.8 RA as per MORT&H	Nos	701
9	7.9	Supplying and installation in position of Pedestrian Guard Rail of MS Railing including two coat of painting completing as per drawing and specification		
		Market Rate	Rm	2000

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

RATE ANALYSIS

Sr. No.	Item No.	Description	Unit	Rate in Rs
	Sec - 8	Traffic Management		
1	8.1	Maintaining, Managing, Operating the traffic plying on road during day and night smoothly and safely as and when required without hindrance to traffic during entire construction activity by providing necessary equipments such as, various road signs, delineaters, barricading,		
	a)	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		
		Ref: Sr.No. 8.1a)of RA as per MORT&H	Nos	1522
	b)	Providing Red lanterns or warning lights of similar type on the barricades.	Nos.	50
		Lumpsum		
	c)	Provision of metal drum/empty bitumen drum delineator, 300 mm in diameter, 800 mm high, filled with earth for stability, painted in circumferential strips of alternate black and white 100 mm wide fitted with reflectors 3 Nos of 7.5 cm dia, all as per IRC:SP:55-2001		
		Ref: Sr.No. 8.1c) of RA as per MORT&H	No	322
	d)	Installation of a steel portable barricade with horizontal sheet of 800 mm wide, 3.0 m in length fitted on a 'wooden bamboos of diameter 200 mm 1.5 m in height, horizontal sheet painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, complete as directed by Engineer.		
		Ref: Sr.No 8.1d) of RA as per MORT&H	Nos	447