

Sample Work Breakdown Structure for Construction Work Activities

This table is intended to provide an overview of the Main Road Construction items. The full numbering of all MRS items refer current “Estimate Import Template” Excel file on Project Management Hub, Estimate Site on SharePoint.

MRS Group Level	MRS Group Level Description
MRS02	<i>Provision for Traffic</i>
MRS03	<i>Drainage Structures, Retaining Structures and Slope Protections</i>
MRS04	<i>General Earthworks</i>
MRS05	<i>Unbound Pavements</i>
MRS06	<i>Reinforced Soil Walls</i>
MRS07A	<i>Insitu Stabilised Subgrades using Quicklime or Hydrated Lime</i>
MRS07B	<i>Insitu Stabilised Pavements using Cement or Cementitious Blends</i>
MRS07C	<i>Insitu Stabilised Pavements Using Foamed Bitumen</i>
MRS08	<i>Plant-Mixed Heavily Bound (Cemented) Pavements</i>
MRS09	<i>Plant-Mixed Foamed Bitumen Stabilised Pavements</i>
MRS10	<i>Plant-Mixed Lightly Bound Pavements</i>
MRS11	<i>Sprayed Bituminous Treatments (Excluding Emulsion)</i>
MRS12	<i>Sprayed Bituminous Emulsion Surfacing</i>
MRS13	<i>Microsurfacing</i>
MRS14	<i>Road Furniture</i>
MRS15	<i>Noise Fences</i>
MRS16	<i>Landscape and Revegetation Works</i>
MRS22	<i>Supply of Cover Aggregate</i>
MRS28	<i>Contractor's Site Facilities and Camp</i>
MRS30	<i>Asphalt Pavements</i>
MRS32	<i>High Modulus Asphalt (EME2)</i>
MRS38	<i>Pavement Drains</i>
MRS39	<i>Lean Mix Concrete Sub-base for Pavements</i>
MRS40	<i>Concrete Pavement Base</i>
MRS41	<i>Concrete Pavement Base (Ancillary Works)</i>
MRS45	<i>Road Surface Delineation</i>

Annexure C

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MRS Group Level	MRS Group Level Description
MRS50	<i>Specific Quality System Requirements</i>
MRS51	<i>Environmental Management</i>
MRS52	<i>Erosion and Sediment Control</i>
MRS56	<i>Construction Surveying</i>
MRS57	<i>Geotextiles for Geotextile Reinforced Seals</i>
MRS58	<i>Geosynthetics for Subgrade and Pavement Reinforcement</i>
MRS62	<i>Bridge Substructure</i>
MRS63	<i>Cast-In-Place Piles</i>
MRS63A	<i>Piles for Ancillary Structures</i>
MRS64	<i>Driven Tubular Steel Piles (with reinforced concrete pile shaft)</i>
MRS65	<i>Precast Prestressed Concrete Piles</i>
MRS66	<i>Driven Steel Piles</i>
MRS68	<i>Dynamic Testing of Piles</i>
MRS74	<i>Supply and Erection of Prestressed Concrete Deck Units, Kerb Units and Winged Planks</i>
MRS75	<i>Supply and Erection of Prestressed Concrete Girders</i>
MRS76	<i>Supply and Erection of Steel Girders</i>
MRS77	<i>Bridge Deck</i>
MRS80	<i>Supply and Erection of Bridge Barrier</i>
MRS82	<i>Bridge Deck Expansion Joints</i>
MRS83	<i>Anti-Graffiti Protection</i>
MRS84	<i>Deck Wearing Surface</i>
MRS84A	<i>Removal of Bridge Deck Wearing Surface</i>
MRS85	<i>Repainting Steel Bridges</i>
MRS86	<i>Widening, Strengthening and Rehabilitation of Bridges</i>
MRS87	<i>Supply of Timber Bridge Materials and Components</i>
MRS88	<i>Protective Coating for New Work</i>
MRS89	<i>Post-tensioned Concrete</i>
MRS91	<i>Conduits and Pits</i>
MRS92	<i>Footings for Road Lighting, Traffic Signal and Roadside Equipment Mounting</i>

Annexure C



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MRS Group Level	MRS Group Level Description
	<i>Structures</i>
MRS93	<i>Traffic Signals</i>
MRS94	<i>Road Lighting</i>
MRS96	<i>Management and Removal of Asbestos</i>
MRS100	<i>High Strength Geosynthetic Reinforcement in Road Embankments</i>
MRS104	<i>Asphalt Geosynthetics for Delaying Pavement Reflective Cracking</i>
MRS110	<i>Coloured Surface Treatments</i>
MRS111	<i>High Friction Surface Treatments</i>
MRS115	<i>In situ Stabilised Subbases using Triple Blend</i>
MRS140	<i>Horizontal Directional Drilling (HDD)</i>
MRS141	<i>Microtunnelling and Pipe Jacking</i>
MRS142	<i>Thrust Boring and Auger Boring</i>
MRS170	<i>Public Utilities in Road Projects Site Works</i>
MRS202	<i>Variable Message Signs</i>
MRS203	<i>Provision of Weigh-in-Motion System</i>
MRS204	<i>Vehicle Detectors</i>
MRS206	<i>Provision of Variable Speed Limit and Lane Use Management Signs</i>
MRS207	<i>Traffic Survey Foundation Equipment</i>
MRS210	<i>Provision of Mains Power</i>
MRS218	<i>Vehicle Activated Signs (VAS)</i>
MRS221	<i>Help Phones</i>
MRS222	<i>Enhanced School Zone Signs Interface</i>
MRS225	<i>Imaging</i>
MRS226	<i>Telecommunications Field Cabinets</i>
MRS227	<i>Changeable Message Signs</i>
MRS228	<i>Electrical Switchboards</i>
MRS229	<i>Electronic Traffic Control Signs</i>
MRS231	<i>Road Weather Monitor (RWM) Systems</i>
MRS232	<i>Provision of Field Processors</i>
MRS233	<i>Roadway Flood Monitoring Systems</i>

Annexure C



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MRS Group Level	MRS Group Level Description
MRS234	<i>Communications Cables</i>
MRS242	<i>Recreational Boating Infrastructure Lighting</i>
MRS245	<i>ITS Telecommunications Network (ITS TN)</i>
MRS251	<i>Motor Vehicle Traffic Counter/Classifier</i>
MRS256	<i>Power Cables</i>
MRS259	<i>Transportable Generator</i>
MRS260	<i>Temporary Variable Speed Limit Signs</i>
MRS262	<i>Transportable Variable Message Signs</i>
MRS263	<i>Standalone Solar (PV) Power Systems</i>
MRS300	<i>Construction of Boat Ramps</i>
MRS301	<i>Fabrication and Construction of Floating Walkways</i>
MRS302	<i>Fabrication and Construction of pontoons</i>
MRS305	<i>Dredging</i>
MRS330	<i>Trackwork</i>
MRS331	<i>Overhead Line Equipment (OHLE)</i>
MRS332	<i>Power Supply and Distribution</i>
MRS333	<i>Signalling and Communications</i>

MRS Group Level	MRS02 Provision for Traffic	
MRS Sub Group Level	Provision for Traffic	
MRS Item Level	Work Item ID	Work Item Description
	20002	Travel Time Surveys
	20003	Construction and removal of side-track
	20004	Supply of temporary barriers
	20005	Installation of temporary barriers
	20006	Supply of temporary barrier end treatments
	20007	Installation of temporary barrier end treatments
	20008	Supply of anti-gawking screens (Provisional Quantity, if ordered)



Sample Work Breakdown Structure for Construction Work Activities

	20012	Installation of anti-gawking screens (Provisional Quantity, if ordered)
	20016	Traffic management inspections
	20017	Planning of temporary traffic management (TMP)
	20018	Design of temporary traffic management (TGS)
	20019	Implementation, maintenance and removal of temporary traffic management
	20020	Administration of temporary traffic management

MRS Group Level	MRS30 Asphalt Pavements
Preparation of the Existing Surface	
41701	Preparation of the existing surface
41702	Crack filling (Provisional Quantity)
41706	Strain alleviating membrane fabric strips (Provisional Quantity)
41710	Tack coat, residual bitumen (Provisional Quantity)
Medium Duty Dense Graded Asphalt	
41751	Medium duty dense graded asphalt in corrector course, AC [nominal size] M mix
41752	Medium duty dense graded asphalt in base course, AC [nominal size] M mix
41753	Medium duty dense graded asphalt in intermediate course, AC [nominal size] M mix
41754	Medium duty dense graded asphalt in surfacing course, AC [nominal size] M mix
Heavy Duty Dense Graded Asphalt	
41801	Heavy duty dense graded asphalt in corrector course, AC [nominal size] H mix
41802	Heavy duty dense graded asphalt in base course, AC [nominal size] H mix
41803	Heavy duty dense graded asphalt in intermediate course, AC [nominal size] H mix
41804	Heavy duty dense graded asphalt in surfacing course, AC [nominal size] H mix

Annexure C



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