



Construction of Eight Lane Corridor with Loops, Underpass and Road Under Bridges between Okalipuram Junction and Fountain Circle, Bangalore



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Bruhat Bengaluru Mahanagara Palike



PROJECT DETAILS

Name of the Project	Construction of Eight Lane Corridor with Loops, Underpass and Road Under Bridges between Okalipuram Junction and Fountain Circle, Bangalore
Name of Contractor	Simplex Infrastructures Limited
Name of PMC	Manasa Consultants
Contract Cost	Rs. 10282.95 Lakh
Date of Issue of Work Order	10 - 12 - 2012
Date of Commencement of Work	15 - 06 - 2015
Project Duration	18 months
Extension Period	30 - 04 - 2021
Physical Progress	85.00%
Financial Progress	81.78%



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Brief Details of the Project

Straight Alignment between Okalipuram Junction and Fountain Circle

Eight lanes divided bidirectional Carriageway has been proposed between Okalipuram Junction and Fountain Circle for the Traffic Movement along the Corridor and for lane balancing of the Corridor.

Loops

Two sets of loops, located between the two Road under Bridges and in front of the proposed New Entry of Railway Building, have been proposed in order to facilitate to and fro Vehicular Traffic Movement accessing the proposed Railway facilities. The Salient Features of the Loops are given below.

Loop for the Traffic Movement from Rajaji Nagar to New Entry of Railway Building spanning across the Corridor

Number of Lane	:	2 lanes unidirectional
Minimum Carriageway Width	:	7.5m
Vertical Clearance	:	4.5m
Vertical Gradient	:	5% (1 in 20)
RCC Viaduct towards Rajaji Nagar	:	34.00m
Solid Ramp towards Rajaji Nagar	:	108.79m
Solid Ramp towards New Entry of Railway Building	:	68.00m

Further, Length of Obligatory Span has been fixed to minimize the interference of Piers with the Traffic Movement at grade. Obligatory Spans of 21.50m and 14.50m have been proposed along with other Requirements such as Protection to the Piers, etc.

Loop for the Traffic Movement from Malleshwaram to New Entry of Railway Building



Number of Lane	:	2 lanes unidirectional
Minimum Carriageway Width	:	7.5m
Vertical Clearance	:	4.5m
Vertical Gradient	:	5% (1 in 20)
Solid Ramp towards Malleshwaram	:	127.59m
Solid Ramp towards New Entry of Railway Building	:	68.00m

Further, Length of Obligatory Span has been fixed to minimize the interference of Piers with the Traffic Movement at grade. Obligatory Spans of 15.50m and 11.50m have been proposed with other Requirements such as Protection to the Piers, etc.

The above two Loops have been merged to form 3 lanes unidirectional Carriageway of minimum Carriageway Width as 11.00m and Length of Obligatory Span as 22.00m near the Road under Bridge (RUB) of Chennai bound Railway Track to carry the Vehicular Traffic coming from both Rajaji Nagar and Malleshwaram.

Loop for the Traffic Movement from New Entry of Railway Building to Malleshwaram and Majestic

The proposed 3 lanes unidirectional Carriageway Loop of minimum Carriageway Width as 11.00m and Length of Obligatory Spans as 27.00m, 20.00m towards Malleshwaram and 21.40m towards Majestic, to carry the Vehicular Traffic from the New Entry of Railway Building, have been splitted into 2 Nos. of 2 lanes unidirectional Carriageway Loops near the RUB of Tumkur bound Railway Track, to Malleshwaram and Majestic.

Loop for catering to the Traffic Movement from New Entry of Railway Building to Malleshwaram

Number of Lane	:	2 lanes unidirectional
Minimum Carriageway Width	:	7.5m
Vertical Clearance	:	4.5m
Vertical Gradient	:	5% (1 in 20)
Solid Ramp towards New Entry Railway Station	:	45.16m
Solid Ramp towards Malleshwaram	:	78.14m

Further, Length of Obligatory Span has been fixed to minimize the interference of Piers with the Traffic Movement at grade. Obligatory Spans of 22.50m and 23.00m have been proposed with other Requirements such as Protection to the Piers, etc.

Further, Opening with RCC Box of 3m X 3m to facilitate Pedestrian Traffic Movement shall be provided in the Solid Ramp towards Malleshwaram.

Loop for catering to the Traffic Movement from New Entry of Railway Building to Majestic

Number of Lane	:	2 lanes unidirectional
Minimum Carriageway Width	:	7.5m
Vertical Clearance	:	4.5m
Vertical Gradient	:	5% (1 in 20)
Solid Ramp towards New Entry of Railway Building	:	45.16m
RCC Viaduct towards Majestic	:	40.00m
Solid Ramp towards Majestic	:	52.22m

Further, Length of Obligatory Span has been fixed to minimize the interference of Piers with the Traffic Movement at grade. Obligatory Spans of 12.00m and 28.00m have been proposed with other Requirements such as Protection to the Piers, etc.

For Traffic Movement from Malleshwaram Side to Rajaji Nagar Side

Two lanes unidirectional Underpass has been proposed for the Traffic Movement from Malleshwaram Side to Rajaji Nagar Side with the following Salient Features.

Length of Underpass	:	254.45m
Number of Lane	:	2 lanes unidirectional
Minimum Carriageway Width	:	7.5m
Length of Covered Portion	:	60m
Vertical Clearance	:	4.5m
Vertical Gradient	:	5% (1 in 20)
Approach Ramp towards Malleshwaram	:	129.55m
Approach Ramp towards Rajaji Nagar	:	64.90m

For Traffic Movement from Malleshwaram Side to Majestic Side



Two lanes unidirectional Carriageway at grade has been proposed for the Traffic Movement from Malleshwaram Side to Majestic Side.

For Traffic Movement from Rajaji Nagar to Malleshwaram Side

Two lanes unidirectional Carriageway at grade has been proposed for the Traffic Movement from Rajaji Nagar Side to Malleshwaram Side.

For Traffic Movement from New Entry of Railway Building Side to Rajaji Nagar Side

Two lanes unidirectional Carriageway at grade has been proposed for the Traffic Movement from New Entry of Railway Building Side to Rajaji Nagar Side.

For Traffic Movement from Majestic Side to New Entry of Railway Building Side

Two lanes unidirectional Carriageway at grade has been proposed for the Traffic Movement from Majestic Side to New Entry of Railway Building Side.

Facilities for Pedestrian Traffic

Pedestrian Subway

A) Pedestrian Subway near Okalipuram

A Pedestrian Subway of 4.0m Clear Width and 2.6m Clear Height with a Length of 39.5m exclusive of the Approach Staircase has been proposed near Okalipuram with the following Salient Features.

Clear Width of Box	:	4m
Clear Height of Box	:	2.6m
Length of Pedestrian Subway	:	39.5m
Minimum Depth of Earth Cushion	:	1.5m from the Proposed Road Formation level
No. of Entry / Exit	:	4
Minimum Width of Stair	:	2.4m
Rise of Step	:	150mm
Tread of Step	:	300mm
No. of Mid Landing	:	2 in each Stair
Minimum Landing Length	:	2.0m

B) Pedestrian Subway near Church

A Pedestrian Subway of 3.0m Clear Width and 2.6m Clear Height with a Length of 15.0m exclusive of the Approach Staircase has been proposed near Church with the following Salient Features.

Clear Width of Box	:	3m
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Clear Height of Box	:	2.6m
Length of Pedestrian Subway	:	15m
Minimum Depth of Earth Cushion	:	1.5m from the Proposed Road Formation level
No. of Entry / Exit	:	2
Minimum Width of Stair	:	3m
Rise of Step	:	150mm
Tread of Step	:	300mm
No. of Mid Landing	:	2 in each Stair
Minimum Landing Length	:	2.0m

C) Foot over Bridge (FOB)

A Foot over Bridge has been proposed in front of the proposed Railway Facilities with the following Salient Features.

Length of FOB excluding Approach Stairs	:	102.00m
Clear Width of Footway	:	3.0m
Clear Height of Footway	:	3.0m
Vertical Clearance	:	4.5m
Minimum Clear Width of Approach Stair	:	3.0m
Rise of Step	:	150mm
Tread of Step	:	300mm
No. of Mid Landing	:	2 in each Stair
Minimum Landing Length	:	2.0m

Remodeling of RUB near Okalipuram (Tumkur bound Railway Track) and RUB near Fountain Circle (Chennai bound Railway Track)

To accommodate 8 lane Corridor with Loops, Underpass and Road under Bridges between Okalipuram Junction and Fountain Circle, it is required to widen the two existing RUBs i.e. one near Okalipuram and the other near Fountain Circle.

At present the existing Width of Carriageway in each direction of these two RUBs is only 9m. General Arrangement Drawing (GAD) for the same has been submitted to the South Western Railway and approval has been accorded in principle

PHYSICAL PROGRESS AND FINANCIAL PROGRESS

Name of the Work: CONSTRUCTION OF 8 LANE CORRIDOR WITH LOOPS, UNDERPASS AND ROAD UNDER BRIDGES BETWEEN OKALIPURAM AND FOUNTAIN CIRCLE.

Sl no	PHYSICAL PROGRESS AS ON 9.12.2020	FINANCIAL PROGRESS AS ON 9.12.2020	FINANCIAL PROGRESS AS ON 9.12.2020	COST OF WORK
1	85%	81.78%	RS.84,09,26,886.06	RS.102,82,95,000.00



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