



# White Topping of selected roads in Bengaluru city (Package-1)

## **Brief Details of the Project**

Bruhat Bengaluru Mahanagara Palike has proposed to take up the White Topping on Selected Roads in Bengaluru City under Hon'ble Chief minister Nagarothana Grants. The Asphalted or Blacktopping roads found commonly in the city of Bengaluru have an expected life span of 5 years. The arterial roads which have been maintained by BBMP were in need of maintenance/ rehabilitation due to wear and tear from heavy traffic during peak hours. Also, drainage is also the major cause of concern in rainy season which is affecting the life of pavement in terms of structural failure. Hence in order to overcome the failure the white topping is the suitable proposal without disturbing the overall pavement structure.

Hence to eradicate pothole menace and to provide roads offering better rideability major roads need to be White topped. The White topping roads are expected to last upto 15-20 years. White topping is nothing but a cement concrete overlay on an existing bituminous pavement. The purpose of White topping is to increase the load carrying capacity of the existing pavement.

### **Benefits and advantages of White topping:**

1. Long Life, Low Maintenance Cost, low life cycle cost, improved safety and environmental benefits.
2. Bituminous overlays exhibit more rapid losses of serviceability as compared to concrete white topping.
3. Deformation like rutting and cracking are predominant in case of bituminous pavements, where as normally absent in white topping pavements.
4. White topping improves structural capacity of existing bituminous pavements and it impedes structural distresses.
5. White topping requires much less maintenance and as such involves much less frequent lane closures of roads, as compared to bituminous surfaces.
6. Good Riding Quality.
7. Concrete Surface is impervious to water.
8. Better Light Reflectivity – save Power in Street Lighting.

## SALIENT FEATURES

Name of Work	White Topping of selected roads in Bengaluru city (Package-1)
Estimate Cost:	Rs. 304.28 Crores
Administrative Approval G. O No:	UDD 199 SFC 2016 (Part -1), Dated: 21.06.2016 <b>(Nagarothana Grants for the Year 2016-17)</b>
Tender Approved G. O No:	UDD 456 MNY 2017, Dated: 06.09.2017
Contract Price:	Rs. 374.00 Crores
Name of the Agency:	M/s. NCC Limited
Work Order No. & Date	EE/PC-2/WO/05/2017-18 Dated: 23.09.2017
Name of PMC:	M/s. Alcon Consulting Engineers (India) Pvt. Ltd
Probable Date of Completion	31.03.2021
Name of the Roads	1. Outer Ring Road from BEL Circle to Benniganahalli Flyover via Hebbal – 9.30 Km 2. Outer Ring Road Connecting From Mysore Road To Tumkur Road Via Sumanahalli Junction – 10.70 Km 3. Metro Corridor From Hosahalli Metro Station To Vijayanagar Ttmc Along West Of Chord Road – 1.65 Km 4. Metro Corridor From Rajajinagar Metro Station To Goraguntepalya Junction – 4.40 Km 5. Metro Corridor From Shivashankar Circle To Banashankari TTMC – 5.50 Km 6. 7th Main Banaswadi from ORR to Uttam Sagar Junction – 1.60 Km 7. Thanisandra Main Road from Nagavara Junction to Baglur Road – 9.50 Km
Physical Progress	62.00 %
Financial Progress	49.26 %

## CONSTRAINTS

- Traffic Diversion from Traffic Police department.
- Due to heavy Pedestrian and traffic movement unable to work in two shifts.
- Work progress was delayed from march due to Covid-19 pandemic and also insufficient Man power due to lockdown.

